

Taraxacum	Version:2.0
Requirements Definition Iteration 1	Date: 2011-01-13

**Taraxacum**  
**Requirements Definition**  
*Final version*

**Version 2.0**

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## Revision History

Date	Version	Description	Author
2011-10-12	0.1	Initial Draft - Created requirements list	Anne Jon Schoonhoven
2011-10-15	0.2	Added Section 1 and 2	Shahid Tarar
2011-10-15	0.3	Added Use cases Teacher	Li Jiang
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## 1. Introduction

### 1.1 Purpose of this document

This document describes all the requirements we are planning to implement in the second iteration of the Taraxacum project. It gives a basic overview of all the requirements and their context.

### 1.2 Intended Audience

This document is intended to all the team members, so that they will be informed about the requirements of the product. This document is intended as well for the supervisor of the project, so she can observe our progress on the requirements engineering process.

### 1.3 Scope

This deliverable provides information about all the scenarios for the Taraxacum web application and functions which are going to be implemented. In second iteration of this document we have focused on the modeling of additional systems requirements.

#### 1.3.1 Definitions

Keyword	Definitions
Resource	A resource can be a file, a web link or a text stored in the system. A resource can be added to at least one topic.
Topic	A topic is a tag to signify a collection of resources that share the same type of knowledge; sometimes we also can say a topic contains a collection of resources.
Course	A course is a collection of topics and resources.
Flashcard	They are used to help people memorize information. The flashcards are designed with a question on one side and an answer on the other.
Note	A note is privately created by students. It can be used to record what they think about one specific resource, and later review it or print it.
Exercise	An exercise includes several choice questions; the student can perform it by choosing an answer. System will give out your marks and right answer after submitted. Exercise is created by teacher and shared in one course.

#### 1.3.2 Acronyms and abbreviations

Acronym or abbreviation	Definitions

### 1.4 References

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## 2. Requirements Description

### 2.1 Introduction

In the academic community both teachers and students need an application where teachers could create a new course or a topic along with all the possible required learning material in the form of files, links, exercises and previous exams from which the students on the other hand could benefit all the resources created by teachers which are simulated in the form of Taraxacum digital book.

### 2.2 General requirements

In a generic view, the customer requires a web portal in the form of digital book where both teachers and student meet to share the knowledge about a course, topic or exercise. Teachers could create course or a topic and simultaneously manipulate files, links, text, or exercises. Whereas the students could access/browse all the material regarding course or a topic or could also post/request or suggest some resources in some cases.

### 2.3 Functional requirements

There are two different types of users involved in the system and basic requirements according to them are mentioned as follow.

#### 2.3.1 Teachers

- This type of user could browse as well as create topic or course with the possibility to add and manipulate material or resources as per need.
- Teachers could easily create exercise on a selected topic or course.
- Teachers could add and manipulate file resources with respect to specific course or a topic.
- They can create flash cards.

#### 2.3.2 Students

- The students could browse and search a topic in any domain.
- These users have the ability to write notes and could take printouts of them.
- It is also possible for these types of users that they can create flash cards and share them among others.
- Students could do some exercises and check their results by comparing teacher's answers.

Both of registered users can leave a comment, "like" or "dislike" the course or resource. These functionalities will be implemented by third part code. More details please refer <http://disqus.com/>.

### 2.4 Nonfunctional requirements

Security is not a priority in this project; however, the application should be safe from any kind of SQL code injection, XSS or any action, which could result as a system crash.

Moreover, students and teachers should have proper access restrictions.

The style of the website should breathe the experience of textbook. Navigation flows should apply the workflow of a student who is learning material. Every other function should try to adapt to a user's workflow, instead of creating a workflow for a user. There are no specific requirements about layout.

## 2.5 Domain information

### 2.5.1 Domain Model

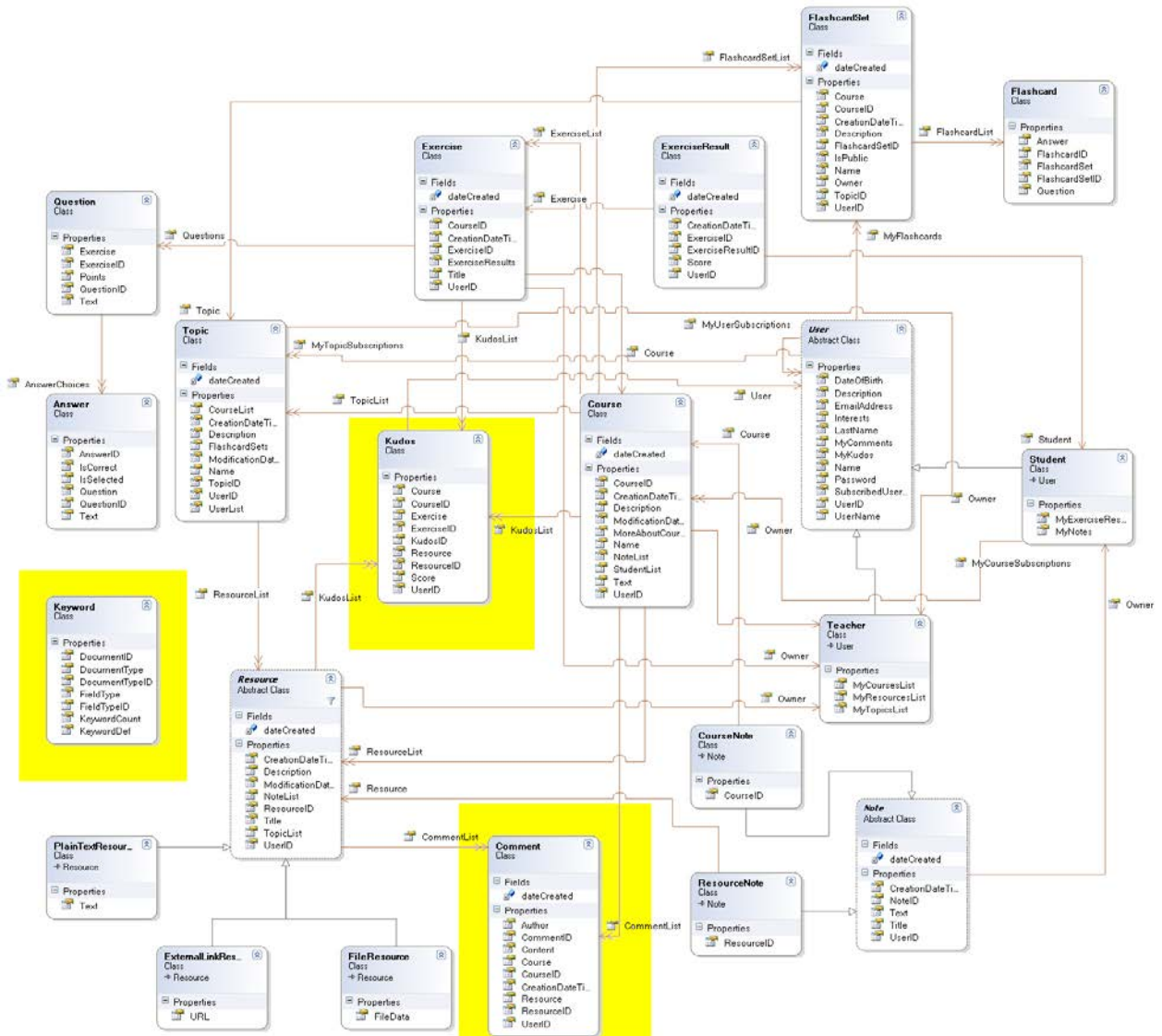


Figure 1 A UML class diagram describing the basic entities of the domain.

#### Users

- Unregistered Users
  - Guests
- Registered Users
  - Teacher
  - Student

### 3. Use Case Models

#### 3.1 General Use Cases

##### Introduction

##### Use case diagram

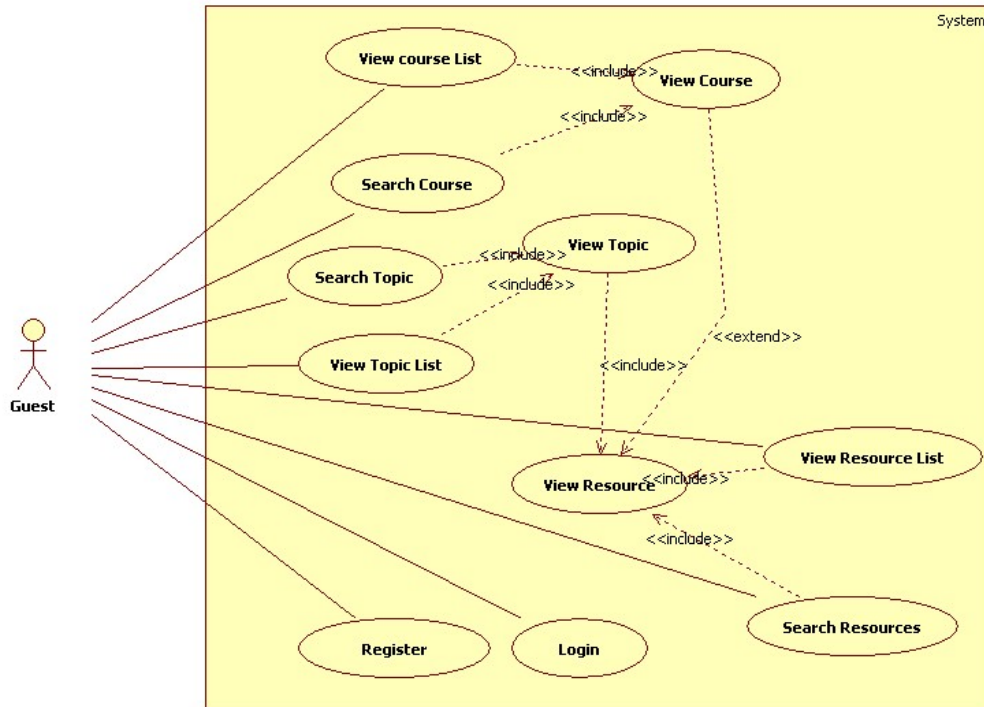


Figure 2 General Use Case Diagram

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### 3.1.1 Authentication

<i>Name</i>	<b>Login</b>	<b>GEN 1.0</b>
<i>Goal</i>	Authenticate the user	
<i>Participating actors</i>	Registered User	
<i>Precondition</i>	The user has an active account	
<i>Event flow</i>	<p>The Registered User is at a <b>PUBLIC</b> page.</p> <ol style="list-style-type: none"> <li>1. The user clicks on the login button.</li> <li>2. A dialog with two fields is displayed</li> <li>3. The user enters his username and password.</li> <li>4. The user details are committed.</li> <li>5. The user is redirected to the page from where he clicks on the login button.</li> </ol> <p>The user is logged in and user's full name is listed on the page.</p>	
<i>Exceptions</i>	<ul style="list-style-type: none"> <li>• During step 4, if username or password is invalid, the system informs user with the message "User name and password are not matching". User continues at step 3.</li> </ul>	
<i>Extensions</i>	<ul style="list-style-type: none"> <li>• During step 3, the user can select an option to stay logged in over multiple sessions.</li> </ul>	
<i>Dependent UC</i>	GEN 1.1	

<i>Name</i>	<b>Register</b>	<b>GEN 1.1</b>
<i>Goal</i>	Register Guest to the an registered account in the system	
<i>Participating actors</i>	Guest	
<i>Precondition</i>		
<i>Event flow</i>	<p>The Guest is at a <b>PUBLIC</b> page.</p> <ol style="list-style-type: none"> <li>1. Guest clicks on the register button.</li> <li>2. A <b>REGISTER</b> page with the required fields is displayed. (See User Information Section )</li> <li>3. Guest enters his credentials</li> <li>4. Guest clicks on the submit button</li> <li>5. Guest is showed a welcome page.</li> </ol> <p>The Guest is now a registered user and logged in having the role with the lowest privileges possible in the system.</p>	
<i>Exceptions</i>	<ul style="list-style-type: none"> <li>• If the input is incorrect, the system notifies the user with a proper message. Guest continues at step 3.</li> </ul>	
<i>Extensions</i>		
<i>Dependent UC</i>		



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### 3.1.2 Resources

<i>Name</i>	<b>View Resource List</b>	<b>GEN 2.0</b>
<i>Goal</i>	View all the resources in the system	
<i>Participating actors</i>	User	
<i>Precondition</i>		
<i>Event flow</i>	<p>The User is at the <b>HOME</b> page.</p> <ol style="list-style-type: none"> <li>1. The user clicks on the Browse button.</li> <li>2. The user is displayed the <b>BROWSE</b> page.</li> <li>3. The user selects the “Resources” Button</li> <li>4. The user is displayed a <b>RESOURCES RESULT</b> page listing all the resources.</li> </ol>	
<i>Exceptions</i>	<ul style="list-style-type: none"> <li>• During step 4, if no resources are available in the system, this is notified to the user.</li> </ul>	
<i>Extensions</i>	<ul style="list-style-type: none"> <li>• During step 4, the result is shown using paging.</li> <li>• After step 4, the user is able to sort the result alphabetically and reverse alphabetically based on the results properties..</li> </ul>	
<i>Dependent UC</i>		

<i>Name</i>	<b>Filter Resource</b>	<b>GEN 3.0</b>
<i>Goal</i>	Display a list of resources based on criteria.	
<i>Participating actors</i>	User	
<i>Precondition</i>		
<i>Event flow</i>	<p>The User is at a <b>RESOURCES RESULT</b> page.</p> <ol style="list-style-type: none"> <li>1. The user fills in his criteria in the search field.</li> <li>2. The user clicks on the filter button.</li> <li>3. The user is displayed a <b>RESOURCES RESULT</b> page listing all the resources matching his criteria.</li> </ol>	
<i>Exceptions</i>	<ul style="list-style-type: none"> <li>• During step 3, if no resources match, this is notified to the user.</li> </ul>	
<i>Extensions</i>	<ul style="list-style-type: none"> <li>• During step 3, the result is shown using a paging.</li> <li>• After step 3, the user is able to sort the result alphabetically and reverse alphabetically based on the results properties.</li> </ul>	
<i>Dependent UC</i>	<b>GEN 2.0</b>	

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<i>Name</i>	<b>View Resource</b>	<b>GEN 4.0</b>
<i>Goal</i>	Shows the contents and description of a resource	
<i>Participating actors</i>	User	
<i>Precondition</i>		
<i>Event flow</i>	<p>The User is at a <b>RESOURCES RESULT</b> page.</p> <ol style="list-style-type: none"> <li>1. The user clicks on the name of a listed resource.</li> <li>2. The system displays the corresponding content en description of the resource on a <b>RESOURCE</b> page.</li> </ol> <p>The User is at a page containing a resource link.</p> <ol style="list-style-type: none"> <li>1. The user clicks on link of the displayed resource.</li> <li>2. The system displays the corresponding content en description of the resource on a <b>RESOURCE</b> page.</li> </ol> <p>A <b>RESOURCE</b> page contains the resources content + the meta information (see Resource Properties, Section )</p>	
<i>Exceptions</i>		
<i>Extensions</i>	•	
<i>Dependent UC</i>	<b>GEN 2.0</b>	

### 3.1.3 Topics

<i>Name</i>	<b>View Topic List</b>	<b>GEN 5.0</b>
<i>Goal</i>	View all the topics in the system	
<i>Participating actors</i>	User	
<i>Precondition</i>		
<i>Event flow</i>	<p>The User is at the <b>HOME</b> page.</p> <ol style="list-style-type: none"> <li>1. The user clicks on the Browse button.</li> <li>2. The user is displayed the <b>BROWSE</b> page.</li> <li>3. The user selects the “Topics” Button</li> <li>4. The user is displayed a <b>TOPICS RESULT</b> page listing all the resources.</li> </ol>	
<i>Exceptions</i>	<ul style="list-style-type: none"> <li>• During step 4, if no topics are available in the system, this is notified to the user.</li> </ul>	
<i>Extensions</i>	<ul style="list-style-type: none"> <li>• During step 4, the result is shown using paging.</li> <li>• After step 4, the user is able to sort the result alphabetically and reverse alphabetically based on the results properties.</li> </ul>	
<i>Dependent UC</i>		

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<i>Name</i>	<b>Filter Topic</b>	<b>GEN 6.0</b>
<i>Goal</i>	Display a list of topics based on criteria.	
<i>Participating actors</i>	User	
<i>Precondition</i>		
<i>Event flow</i>	<p>The User is at a <b>TOPIC RESULT</b> page.</p> <ol style="list-style-type: none"> <li>1. The user fills in his criteria in the search field.</li> <li>2. The user clicks on the filter button.</li> <li>3. The user is displayed a <b>TOPIC RESULT</b> page listing all the topics matching his criteria.</li> </ol>	
<i>Exceptions</i>	<ul style="list-style-type: none"> <li>• During step 3, if no topics match, this is notified to the user.</li> </ul>	
<i>Extensions</i>	<ul style="list-style-type: none"> <li>• During step 3, the result is shown using a paging.</li> <li>• After step 3, the user is able to sort the result alphabetically and reverse alphabetically based on the results properties.</li> </ul>	
<i>Dependent UC</i>	<b>GEN 5.0</b>	

<i>Name</i>	<b>View Topic</b>	<b>GEN 7.0</b>
<i>Goal</i>	Shows the contents and description of a topic	
<i>Participating actors</i>	User	
<i>Precondition</i>		
<i>Event flow</i>	<p>The User is at a <b>TOPIC RESULT</b> page.</p> <ol style="list-style-type: none"> <li>1. The user clicks on the name of a listed resource.</li> <li>2. The system displays the corresponding content en description of the resource on a <b>TOPIC</b> page</li> </ol> <p>The User is at a page containing a topic link.</p> <ol style="list-style-type: none"> <li>1. The user clicks on link of the displayed resource.</li> <li>2. The system displays the corresponding content en description of the resource on a <b>TOPIC</b> page</li> </ol> <p>A <b>TOPIC</b> page contains the list of resource + the meta information (see Topic Properties, Section )</p>	
<i>Exceptions</i>		
<i>Extensions</i>	<ul style="list-style-type: none"> <li>•</li> </ul>	
<i>Dependent UC</i>	<b>GEN 5.0</b>	

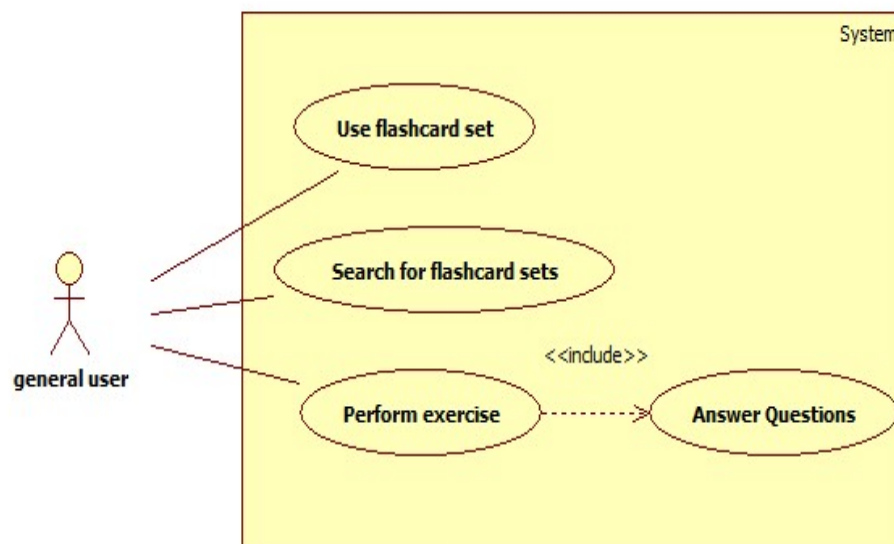
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### 3.1.4 Courses

<i>Name</i>	<b>View Tutorials List</b>	<b>GEN 8.0</b>
<i>Goal</i>	View all the tutorials in the system	
<i>Participating actors</i>	User	
<i>Precondition</i>		
<i>Event flow</i>	<p>The User is at the <b>HOME</b> page.</p> <ol style="list-style-type: none"> <li>1. The user clicks on the Browse button.</li> <li>2. The user is displayed the <b>BROWSE</b> page.</li> <li>3. The user selects the “Tutorials” Button</li> <li>4. The user is displayed a <b>TUTORIALS RESULT</b> page listing all the resources.</li> </ol>	
<i>Exceptions</i>	<ul style="list-style-type: none"> <li>• During step 4, if no courses are available in the system, this is notified to the user.</li> </ul>	
<i>Extensions</i>	<ul style="list-style-type: none"> <li>• During step 4, the result is shown using paging.</li> <li>• After step 4, the user is able to sort the result alphabetically and reverse alphabetically based on the results properties..</li> </ul>	
<i>Dependent UC</i>		

<i>Name</i>	<b>Filter Tutorial</b>	<b>GEN 9.0</b>
<i>Goal</i>	Display a list of tutorial based on criteria.	
<i>Participating actors</i>	User	
<i>Precondition</i>		
<i>Event flow</i>	<p>The User is at a <b>TUTORIALS RESULT</b> page.</p> <ol style="list-style-type: none"> <li>1. The user fills in his criteria in the search field.</li> <li>2. The user clicks on the search button.</li> <li>3. The user is displayed a <b>TUTORIALS RESULT</b> page listing all the resources matching his criteria.</li> </ol>	
<i>Exceptions</i>	<ul style="list-style-type: none"> <li>• During step 3, if no course match, this is notified to the user.</li> </ul>	
<i>Extensions</i>	<ul style="list-style-type: none"> <li>• During step 3, the result is shown using a paging.</li> <li>• After step 3, the user is able to sort the result alphabetically and reverse alphabetically based on the results properties.</li> </ul>	
<i>Dependent UC</i>	<b>GEN 8.0</b>	

<i>Name</i>	<b>View Tutorial</b>	<b>GEN 10.0</b>
<i>Goal</i>	Shows the contents and description of a tutorial	
<i>Participating actors</i>	User	
<i>Precondition</i>		
<i>Event flow</i>	<p>The User is at a <b>TUTORIAL RESULT</b> page.</p> <ol style="list-style-type: none"> <li>1. The user clicks on the name of a listed resource.</li> <li>2. The system displays the corresponding content en description of the resource on a <b>COURSE</b> page.</li> </ol> <p>The User is at a page containing a course link.</p> <ol style="list-style-type: none"> <li>1. The user clicks on link of the displayed resource.</li> <li>2. The system displays the corresponding content en description of the resource on a <b>COURSE</b> page.</li> </ol> <p>A <b>COURSE</b> page contains the resources content + the meta information (see course Properties, Section )</p>	
<i>Exceptions</i>		
<i>Extensions</i>	•	
<i>Dependent UC</i>	<b>GEN 8.0</b>	



**Figure 3 General Use Case Diagram**

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### 3.1.5 Flashcards

<i>Name</i>	<b>Use flashcard set</b>	<b>GEN 11.0</b>
<i>Goal</i>	To use flashcard set and study	
<i>Participating actors</i>	User	
<i>Precondition</i>		
<i>Event flow</i>	<p>The User is at a <b>HOME</b> page.</p> <ol style="list-style-type: none"> <li>1. The user clicks on “Learn”.</li> <li>2. The user is displayed <b>LEARN</b> page.</li> <li>3. The user selects “Flashcards” button.</li> <li>4. The user is displayed <b>FLASHCARDS</b> page.</li> <li>5. The user selects flashcard set from the list.</li> <li>6. The system displays flashcards from that flashcard set to user.</li> </ol> <p>The user views flashcards from the flashcard set and can study them.</p>	
<i>Exceptions</i>		
<i>Extensions</i>	<ul style="list-style-type: none"> <li>• When viewing <b>LEARN</b> page, the possibility to use flashcard sets is shown as well in list of latest flashcard sets. The user hooks up at step 5.</li> <li>• When viewing <b>USER PAGE</b>, the possibility to use flashcard sets is shown as well. The user hooks up at step 5.</li> </ul>	
<i>Dependent UC</i>		

<i>Name</i>	<b>Filter flashcard sets</b>	<b>GEN 12</b>
<i>Goal</i>	To find flashcard sets by some criteria	
<i>Participating actors</i>	User	
<i>Precondition</i>		
<i>Event flow</i>	<p>The User is at a <b>FLASHCARDS</b> page.</p> <ol style="list-style-type: none"> <li>1. The user fills in his criteria in the search field.</li> <li>2. The user clicks on the “Filter” button.</li> <li>3. The user is displayed a <b>FLASHCARD RESULT</b> page listing all the flashcards matching his criteria.</li> </ol> <p>The user views flashcards from the flashcard set and can study them.</p>	
<i>Exceptions</i>	<ul style="list-style-type: none"> <li>• During step 3, If no match, this is notified to the user</li> </ul>	
<i>Extensions</i>	<ul style="list-style-type: none"> <li>• During step 3, the result is shown using a paging.</li> <li>• After step 3, the user is able to sort the result alphabetically and reverse alphabetically based on the results properties.</li> </ul>	
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<i>Name</i>	<b>Perform Exercise</b>	<b>GEN 13.0</b>
<i>Goal</i>	Perform and exercise about a tutorial, and get a result.	
<i>Participating actors</i>	User	
<i>Precondition</i>		
<i>Event flow</i>	<p>The User is at the <b>TUTORIAL</b> page.</p> <ol style="list-style-type: none"> <li>1. The user selects one of the available exercises.</li> <li>2. An <b>EXERCISE</b> page is shown.</li> <li>3. The user answers questions about exercises, select the right answer of each question</li> <li>4. When the user submits, the <b>EXERCISE RESULT</b> page is shown, showing result and scores. The correct answer will be displayed in green color; the answer selected will be displayed in red.</li> </ol> <p>If the user has logged on, the result of the exercise is stored in the system for later usage.</p>	
<i>Exceptions</i>		
<i>Extensions</i>	<ul style="list-style-type: none"> <li>• When viewing <b>LEARN page</b>, the possibility to use exercise sets is shown as well in list of latest exercises and exercise results. The user hooks up at step 1.</li> <li>• When viewing <b>LEARN page</b>, user can also choose to click Exercises button. After that, list of available exercises is shown. User hooks up at step 1.</li> </ul>	
<i>Dependent UC</i>	GEN 13.1	

<i>Name</i>	<b>Answer Question</b>	<b>GEN 13.1</b>
<i>Goal</i>	Answer questions presented by exercise	
<i>Participating actors</i>	User	
<i>Precondition</i>		
<i>Event flow</i>	<p>The User is at an <b>EXCERCISE</b> page.</p> <ol style="list-style-type: none"> <li>1. The user is shown a list of multiple choice questions.</li> <li>2. The user selects the answers of his choice, only one can be selected</li> <li>3. The user submits the exercise.</li> <li>4. The user is shown the result page.</li> </ol>	
<i>Exceptions</i>		
<i>Extensions</i>		
<i>Dependent UC</i>	GEN 13.0	

<i>Name</i>	<b>Display user page</b>	<b>GEN 14</b>
<i>Goal</i>	To display user page of selected user	
<i>Participating actors</i>	User	
<i>Precondition</i>		

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<i>Event flow</i>	The User is at <b>any RESULTS</b> page. <ol style="list-style-type: none"> <li>1. The user is shown a list of results (resource, topic, and tutorial).</li> <li>2. The user selects username from the list.</li> <li>3. The user is displayed user page of selected user.</li> </ol>
<i>Exceptions</i>	
<i>Extensions</i>	<ul style="list-style-type: none"> <li>• It's possible to view personal user page when clicking on <b>MY ACCOUNT</b> page.</li> </ul>
<i>Dependent UC</i>	

<i>Name</i>	<b>Search widget</b>	<b>GEN 15</b>
<i>Goal</i>	To search all resources, topics and tutorials	
<i>Participating actors</i>	User	
<i>Precondition</i>		
<i>Event flow</i>	The User is at <b>any</b> page. <ol style="list-style-type: none"> <li>1. User enters data to search for into textbox in the sidebar.</li> <li>2. User is displayed search result page with results.</li> </ol>	
<i>Exceptions</i>		
<i>Extensions</i>		
<i>Dependent UC</i>		

<i>Name</i>	<b>Comments feature on resource</b>	<b>GEN 16</b>
<i>Goal</i>	To leave comment on resource	
<i>Participating actors</i>	User	
<i>Precondition</i>		
<i>Event flow</i>	The User is at <b>RESOURCE</b> page. <ol style="list-style-type: none"> <li>1. User enters e-mail, or logs in with existing account to leave comment.</li> <li>2. The user enters comments in the comments section.</li> <li>3. Comments are displayed on resource page.</li> </ol>	
<i>Exceptions</i>		
<i>Extensions</i>		
<i>Dependent UC</i>		

<i>Name</i>	<b>Comments feature on tutorial</b>	<b>GEN 16</b>
<i>Goal</i>	To leave comment on tutorial	
<i>Participating actors</i>	User	
<i>Precondition</i>		
<i>Event flow</i>	The User is at <b>TUTORIAL</b> page. <ol style="list-style-type: none"> <li>1. User enters e-mail, or logs in with existing account to leave comment.</li> <li>2. The user enters comments in the comments section.</li> <li>3. Comments are displayed on tutorial page.</li> </ol>	



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<i>Exceptions</i>	
<i>Extensions</i>	
<i>Dependent UC</i>	

### 3.2 Registered user

#### Introduction

#### Use case diagram

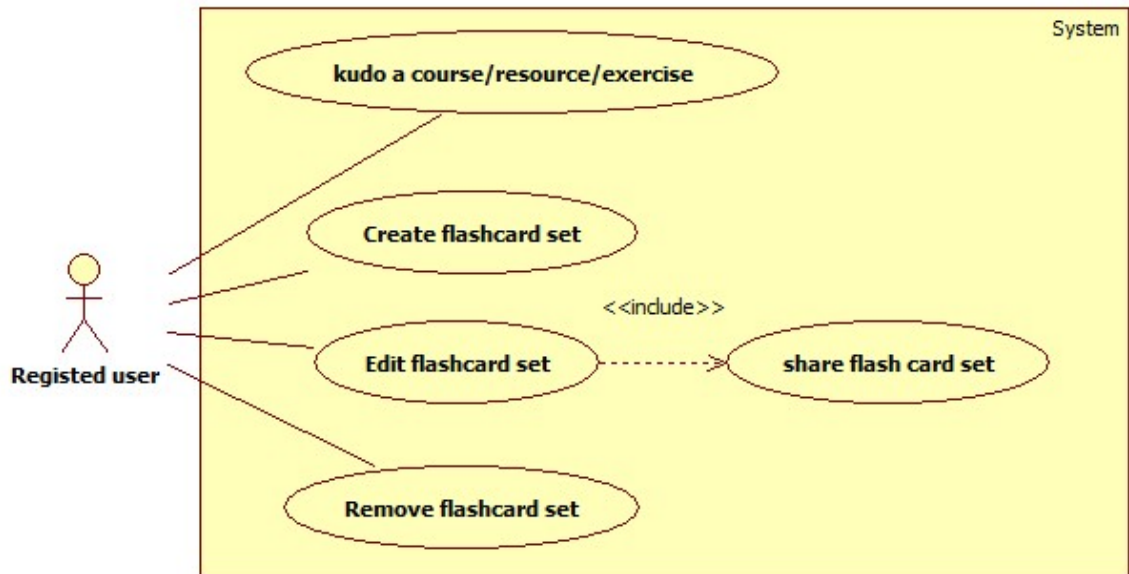


Figure 4 Registered user Use Case Diagram

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### 3.2.1 Flashcard

<i>Name</i>	<b>Create flashcard set</b>	<b>REG 1.0</b>
<i>Goal</i>	Add a new flashcard set to the system.	
<i>Participating actors</i>	Registered user	
<i>Precondition</i>	The user is logged in.	
<i>Event flow</i>	<p>User is at the <b>HOME</b> page.</p> <ol style="list-style-type: none"> <li>1. User clicks on the “My Account” button.</li> <li>2. User is displayed the <b>MY ACCOUNT</b> page.</li> <li>3. User clicks on the “Share” button.</li> <li>4. User is displayed the <b>SHARE</b> page.</li> <li>5. User clicks the “Add new flashcard set” Button</li> <li>6. User is displayed an empty <b>EDIT FLASHCARD SET</b> page containing the required fields.</li> <li>7. User fills in information about the new flashcard set, including: flash card name, description, if public, which topic it belongs to.</li> <li>8. User clicks on submit button</li> <li>9. The system shows the User the <b>FLASHCARD SET</b> page showing the newly added flashcard set.</li> </ol> <p>A new flashcard set is created in the system. Default flashcard set is private.</p>	
<i>Exceptions</i>	<ul style="list-style-type: none"> <li>• During step 6, the system will notify about any invalid input.</li> </ul>	
<i>Extensions</i>		
<i>Dependent UC</i>	<b>REG 1.1</b>	

<i>Name</i>	<b>Edit flashcard set</b>	<b>REG 1.1</b>
<i>Goal</i>	Edit an existing flashcard set description.	
<i>Participating actors</i>	Registered user, must be owner of that set	
<i>Precondition</i>	The user is logged in.	
<i>Event flow</i>	<p>User is at the <b>SHARE</b> page.</p> <ol style="list-style-type: none"> <li>1. User clicks on the “Edit” button next to the chosen flashcard set.</li> <li>2. User is displayed an <b>EDIT FLASHCARD SET</b> page containing the required fields, each filled in with information.</li> <li>3. User updates information about the flashcard set.</li> <li>4. User clicks on submit button</li> <li>5. The system shows the User the <b>FLASHCARD SET</b> page showing the edited flashcard set.</li> </ol> <p>The existing flashcard set is updated in the system</p>	
<i>Exceptions</i>	<ul style="list-style-type: none"> <li>• During step 5, the system will notify about any invalid input. User continues at step 2.</li> </ul>	
<i>Extensions</i>		
<i>Dependent UC</i>		

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<i>Name</i>	<b>Remove flashcard set</b>	<b>REG 1.2</b>
<i>Goal</i>	Remove a flashcard set from the system	
<i>Participating actors</i>	Registered user, must be owner of that set	
<i>Precondition</i>	The flashcard set contains no flashcards	
<i>Event flow</i>	<p>User is at the <b>SHARE</b> page.</p> <ol style="list-style-type: none"> <li>1. User clicks on the “Remove” button next to the chosen flashcard set.</li> <li>2. User is displayed dialog containing a confirmation question about removing the flashcard set.</li> <li>3. User clicks on confirm button</li> <li>4. The system shows the User the <b>SHARE</b> page.</li> </ol> <p>The flashcard set is removed from the system</p>	
<i>Exceptions</i>	<ul style="list-style-type: none"> <li>• During stop 2, the system notifies the user if the flashcard set contains flashcards. User is continuing at step 4.</li> </ul>	
<i>Extensions</i>		
<i>Dependent UC</i>		

### 3.2.2 Resource

<i>Name</i>	<b>Share flashcard set</b>	<b>REG 1.3</b>
<i>Goal</i>	To share flashcard set with others.	
<i>Participating actors</i>	Registered user	
<i>Precondition</i>	The user is logged in.	
<i>Event flow</i>	<p>User is at the <b>MY ACCOUNT</b> page.</p> <ol style="list-style-type: none"> <li>1. User clicks on the “Edit” button next to the chosen flashcard set.</li> <li>2. User is displayed an <b>EDIT FLASHCARD SET</b> page containing the required fields, each filled in with information.</li> <li>3. User sets property Public to true.</li> <li>4. User clicks on submit button</li> <li>5. The system shows the User the <b>FLASHCARD SET</b> page showing the edited flashcard set.</li> </ol> <p>Flashcard set is now shared with other users.</p>	
<i>Exceptions</i>		
<i>Extensions</i>		
<i>Dependent UC</i>		

<i>Name</i>	<b>View flashcard set</b>	<b>REG 1.4</b>
<i>Goal</i>	Edit an existing flashcard set description.	
<i>Participating actors</i>	Registered user, must be owner of that set	
<i>Precondition</i>	The user is logged in.	
<i>Event flow</i>	<p>User is at the <b>FLASHCARD SET</b> page.</p> <ol style="list-style-type: none"> <li>1. User is displayed list of flashcards in flashcard set.</li> <li>2. From this point it's possible to do 3 things:</li> </ol>	

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	<ul style="list-style-type: none"> <li>a. ADD FLASHCARD TO SET (REG 2.0)</li> <li>b. EDIT FLASHCARD FROM SET (REG 2.1)</li> <li>c. REMOVE FLASHCARD FROM SET (REG 2.2)</li> </ul>
<i>Exceptions</i>	
<i>Extensions</i>	
<i>Dependent UC</i>	

<i>Name</i>	<b>Add flashcard to set</b>	<b>REG 2.0</b>
<i>Goal</i>	To add the new flashcard to existing flashcard set.	
<i>Participating actors</i>	Registered user	
<i>Precondition</i>	The user is logged in.	
<i>Event flow</i>	<p>User is at the <b>FLASHCARD SET</b> page.</p> <ol style="list-style-type: none"> <li>1. User clicks on the “Add new flashcard”.</li> <li>2. User is displayed an empty <b>EDIT FLASHCARD</b> page containing the required fields.</li> <li>3. User enters information about the flashcard.</li> <li>4. User clicks on submit button</li> <li>5. The system shows the User the <b>FLASHCARD SET</b> page showing the added Flashcard in list.</li> </ol> <p>The new flashcard is added to the flashcard set.</p>	
<i>Exceptions</i>	After step 4, the system will notify about any invalid input. User starts at step 3.	
<i>Extensions</i>		
<i>Dependent UC</i>		

<i>Name</i>	<b>Edit flashcard from set</b>	<b>REG 2.1</b>
<i>Goal</i>	To edit flashcard from set	
<i>Participating actors</i>	Registered user	
<i>Precondition</i>		
<i>Event flow</i>	<p>User is at the <b>FLASHCARD SET</b> page.</p> <ol style="list-style-type: none"> <li>1. User clicks on the “Edit” button next to the selected flashcard.</li> <li>2. User is displayed <b>EDIT FLASHCARD</b> page containing the required fields filled with data.</li> <li>3. User updates information about the flashcard.</li> <li>4. User clicks on submit button</li> <li>5. The system shows the User the <b>FLASHCARD SET</b> page with edited Flashcard in list.</li> </ol> <p>The flashcard from the flashcard set is edited.</p>	
<i>Exceptions</i>	<ul style="list-style-type: none"> <li>• After step 4, the system will notify about any invalid input. User starts at step 3.</li> </ul>	
<i>Extensions</i>		
<i>Dependent UC</i>		

<i>Name</i>	<b>Remove flashcard from set</b>	<b>REG 2.2</b>
<i>Goal</i>	To remove specific flashcard from flashcard set	
<i>Participating actors</i>	Registered user	
<i>Precondition</i>	The user is logged in.	
<i>Event flow</i>	User is at the <b>FLASHCARD SET</b> page.	

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	<ol style="list-style-type: none"> <li>1. User clicks on the “Delete” button next to the selected flashcard.</li> <li>2. User is displayed dialog containing a confirmation question about removing the flashcard set.</li> <li>3. User clicks on confirm button</li> <li>4. The system shows the User <b>FLASHCARD SET</b> page.</li> </ol> <p>The flashcard is removed from set.</p>
<i>Exceptions</i>	
<i>Extensions</i>	
<i>Dependent UC</i>	

### 3.2.3 Kudo a tutorial/resource/exercise

<i>Name</i>	<b>Kudo a tutorial/resource/exercise</b>	<b>REG 3</b>
<i>Goal</i>	To show thanks to the author	
<i>Participating actors</i>	Registered user	
<i>Precondition</i>	The user is logged in.	
<i>Event flow</i>	<p>User is at the <b>TUTORIAL/RESOURCE/EXERCISE</b> page.</p> <ol style="list-style-type: none"> <li>1. User clicks on the “+1” button on the page.</li> <li>2. The Kudos times will be updated (+1) on the page</li> </ol> <p>The Kudos will be saved in database.</p>	
<i>Exceptions</i>		
<i>Extensions</i>	<ul style="list-style-type: none"> <li>• If after step 2, the “+1” button will change to “-1”. If user clicks again, the Kudos number will decrease 1.</li> </ul>	
<i>Dependent UC</i>	<b>REG 3</b>	

### 3.2.4 User actions

<i>Name</i>	<b>Subscribe to user</b>	<b>REG 4</b>
<i>Goal</i>	Subscribe to other users materials	
<i>Participating actors</i>	Registered user	
<i>Precondition</i>	The user is logged in.	
<i>Event flow</i>	<p>User is at the other <b>User’s</b> page.</p> <ol style="list-style-type: none"> <li>1. User “Subscribe to user” button on the page.</li> <li>2. The system shows the message on the page</li> </ol> <p>The subscription will be saved in database.</p>	
<i>Exceptions</i>		
<i>Extensions</i>		

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<i>Dependent UC</i>	<b>GEN 14</b>	
<i>Name</i>	<b>Unsubscribe from user</b>	<b>REG 4.1</b>
<i>Goal</i>	Unsubscribe from other user materials.	
<i>Participating actors</i>	Registered user	
<i>Precondition</i>	The user is logged in and subscribed to that user.	
<i>Event flow</i>	<p>User is at the MY ACCOUNT page.</p> <ol style="list-style-type: none"> <li>1. User clicks on FOLLOW tab.</li> <li>2. User is displayed list of subscriptions.</li> <li>3. User clicks on Delete button on the page next to desired user.</li> <li>4. The system shows the message on the page</li> </ol> <p>The user is unsubscribed and it will be saved in database.</p>	
<i>Exceptions</i>		
<i>Extensions</i>	<ul style="list-style-type: none"> <li>• when on user page, user can click on “Unsubscribe to user”</li> </ul>	
<i>Dependent UC</i>	<b>GEN 14.1</b>	

<i>Name</i>	<b>Edit user page</b>	<b>REG 4.2</b>
<i>Goal</i>	To edit personal user page	
<i>Participating actors</i>	Registered user	
<i>Precondition</i>	The user is logged in.	
<i>Event flow</i>	<p>User is at the MY ACCOUNT page.</p> <ol style="list-style-type: none"> <li>1. User clicks on the “Edit user page” button on the page.</li> <li>2. User changes some of the data on the user page.</li> <li>3. User clicks on submit and data is saved.</li> </ol> <p>The new data will be saved in database.</p>	
<i>Exceptions</i>		
<i>Extensions</i>		
<i>Dependent UC</i>		

### 3.2.5 Topic subscriptions

<i>Name</i>	<b>Subscribe to topic</b>	<b>REG 5</b>
<i>Goal</i>	To subscribe to some topic	
<i>Participating actors</i>	Registered user	
<i>Precondition</i>	The user is logged in.	
<i>Event flow</i>	<p>User is at the TOPIC page.</p> <ol style="list-style-type: none"> <li>1. User clicks on the “Subscribe to topic” button on the page.</li> </ol> <p>User is subscribed to that topic and result is visible under Follow tab.</p>	

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<i>Exceptions</i>	
<i>Extensions</i>	
<i>Dependent UC</i>	

<i>Name</i>	<b>Unsubscribe from topic</b>	<b>REG 5.1</b>
<i>Goal</i>	To unsubscribe from some topic	
<i>Participating actors</i>	Registered user	
<i>Precondition</i>	The user is logged in and subscribed to selected topic.	
<i>Event flow</i>	<p>User is at the <b>MY ACCOUNT</b> page.</p> <ol style="list-style-type: none"> <li>1. User clicks on the Follow tab.</li> <li>2. User is displayed list of subscriptions.</li> <li>3. User clicks on the Delete button next to the selected topic on the page.</li> </ol> <p>User is unsubscribed from that topic.</p>	
<i>Exceptions</i>		
<i>Extensions</i>	<ul style="list-style-type: none"> <li>• User is also able to unsubscribe from topic using “Unsubscribe from topic” on topic page.</li> </ul>	
<i>Dependent UC</i>	<b>REG 5</b>	



### Teacher

### Introduction

### Use case diagram

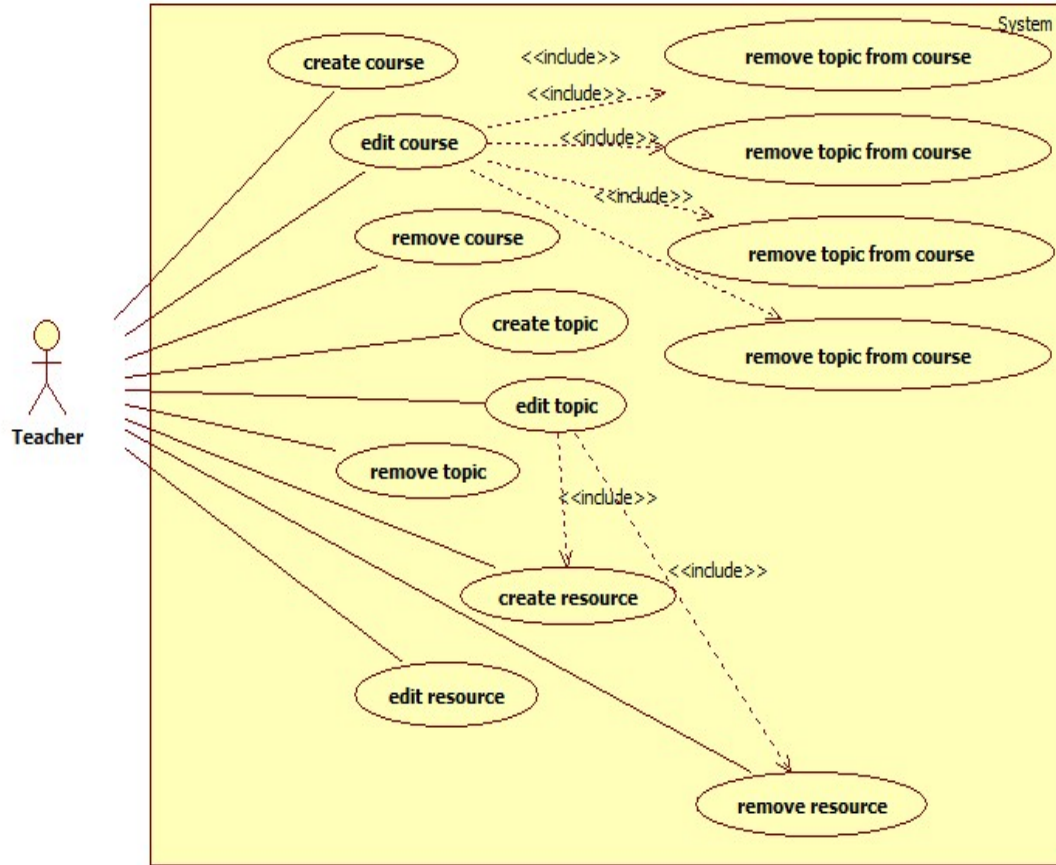


Figure 5 Teacher Use Case Diagram

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### 3.2.6 Topic

<i>Name</i>	<b>Create Topic</b>	<b>TCH 1.0</b>
<i>Goal</i>	Add a new topic to the system.	
<i>Participating actors</i>	Teacher	
<i>Precondition</i>	The teacher is logged in.	
<i>Event flow</i>	<p>Teacher is at the <b>HOME</b> page.</p> <ol style="list-style-type: none"> <li>1. Teacher clicks on the “My Account” button.</li> <li>2. Teacher is displayed the <b>MY ACCOUNT</b> page.</li> <li>3. Teacher clicks on the “Share” button</li> <li>4. Teacher is displayed the <b>SHARE</b> page</li> <li>5. Teacher clicks the “Add new topic” button</li> <li>6. Teacher is displayed an empty <b>EDIT TOPIC</b> page containing the required fields.</li> <li>7. Teacher fills in information about the new topic.</li> <li>8. Teacher clicks on submit button</li> <li>9. The system shows the Teacher the <b>SHARE</b> page showing the newly added topic.</li> </ol> <p>A new topic is created in the system</p>	
<i>Exceptions</i>	<ul style="list-style-type: none"> <li>• During step 8, the system will notify about any invalid input.</li> </ul>	
<i>Extensions</i>	<ul style="list-style-type: none"> <li>• When viewing a topic, the possibility to create a topic is shown as well. The user hooks up at step 6.</li> <li>• When on HOME page, there is also possibility to create a topic if user clicks on “Create a topic” button. The user hooks up at step 6.</li> </ul>	
<i>Dependent UC</i>	<b>TCH 1.1</b>	

<i>Name</i>	<b>Edit Topic</b>	<b>TCH 1.1</b>
<i>Goal</i>	Edit an existing topics description.	
<i>Participating actors</i>	Teacher	
<i>Precondition</i>	The teacher is logged in.	
<i>Event flow</i>	<p>Teacher is at the <b>SHARE</b> page.</p> <ol style="list-style-type: none"> <li>1. Teacher clicks on the “Edit” button next to the chosen topic.</li> <li>2. Teacher is displayed an <b>EDIT TOPIC</b> page containing the required fields, each filled in with information.</li> <li>3. Teacher updates information about the topic.</li> <li>4. Teacher clicks on submit button</li> <li>5. The system shows the Teacher the <b>SHARE</b> page showing the edited topic.</li> </ol> <p>The existing topic is updated in the system</p>	
<i>Exceptions</i>	<ul style="list-style-type: none"> <li>• During step 6, the system will notify about any invalid input. User continues at step 2.</li> </ul>	
<i>Extensions</i>	<ul style="list-style-type: none"> <li>• When viewing a topic, the possibility to edit the topic is shown as well. The user hooks up at step 2.</li> </ul>	
<i>Dependent UC</i>		

<i>Name</i>	<b>Remove Topic</b>	<b>TCH 1.2</b>
<i>Goal</i>	Remove a topic from the system	
<i>Participating actors</i>	Teacher	
<i>Precondition</i>	The topic contains no resource	
<i>Event flow</i>	<p>Teacher is at the <b>SHARE</b> page.</p> <ol style="list-style-type: none"> <li>1. Teacher clicks on the “Remove” button next to the chosen topic.</li> <li>2. Teacher is displayed dialog containing a confirmation question about removing the topic.</li> <li>3. Teacher clicks on confirm button</li> <li>4. The system shows the Teacher the <b>SHARE</b> page.</li> </ol> <p>The topic is removed from the system</p>	
<i>Exceptions</i>	<ul style="list-style-type: none"> <li>• During stop 2, the system notifies the user if the topic contains resources. User is continuing at step 4.</li> </ul>	
<i>Extensions</i>		
<i>Dependent UC</i>		

### 3.2.7 Resource

<i>Name</i>	<b>Create Resource</b>	<b>TCH 2.0</b>
<i>Goal</i>	Add a new resource to the system.	
<i>Participating actors</i>	Teacher	
<i>Precondition</i>	The teacher is logged in.	
<i>Event flow</i>	<p>Teacher is at the <b>HOME</b> page.</p> <ol style="list-style-type: none"> <li>1. Teacher clicks on the “My Account” button.</li> <li>2. Teacher is displayed the <b>MY ACCOUNT</b> page.</li> <li>3. Teacher is click on the “Share” button.</li> <li>4. Teacher is displayed the <b>SHARE</b> page.</li> <li>5. Teacher clicks the “Add new resource” button</li> <li>6. Teacher is displayed an empty <b>EDIT RESOURCE</b> page containing the required fields.</li> <li>7. Teacher chooses “Text resource” or “Add file”</li> <li>8. Teacher fills in information about the new resource.</li> <li>9. Teacher uploads a file, or adds a text, or adds a URL</li> <li>10. Teacher clicks on submit button</li> <li>11. The system shows the Teacher the <b>SHARE</b> page showing the newly added topic.</li> </ol> <p>A new resource is created in the system. The resource is added to the default topic “uncategorized”.</p>	
<i>Exceptions</i>	<ul style="list-style-type: none"> <li>• After step 10, the system will notify about any invalid input. User continues at step 8.</li> </ul>	
<i>Extensions</i>	<ul style="list-style-type: none"> <li>• When viewing a resource, the possibility to create a resource is shown as well. The user hooks up at step 4.</li> <li>• When on HOME page, there is also possibility to create resource if user clicks on “Create a resource” button. The user hooks up at step 6.</li> </ul>	
<i>Dependent UC</i>	<b>TCH 2.1</b>	

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<i>Name</i>	<b>Edit Resource</b>	<b>TCH 2.1</b>
<i>Goal</i>	Edit an existing resource description.	
<i>Participating actors</i>	Teacher	
<i>Precondition</i>	The teacher is logged in.	
<i>Event flow</i>	<p>Teacher is at the <b>SHARE</b> page.</p> <ol style="list-style-type: none"> <li>1. Teacher clicks on the “Edit” button next to the chosen resource.</li> <li>2. Teacher is displayed an <b>EDIT RESOURCE</b> page containing the required fields, each filled in with information.</li> <li>3. Teacher updates information about the resource. <ol style="list-style-type: none"> <li>i. Optional: Teacher uploads a file, or changes a text, or changes a URL</li> </ol> </li> <li>4. Teacher clicks on submit button</li> <li>5. The system shows the Teacher the <b>SHARE</b> page showing the edited resource.</li> </ol> <p>The existing resource is updated in the system</p>	
<i>Exceptions</i>	<ul style="list-style-type: none"> <li>• After step 4, the system will notify about any invalid input. User starts at step 3.</li> </ul>	
<i>Extensions</i>	<ul style="list-style-type: none"> <li>• When viewing a resource, the possibility to edit the resource is shown as well. The user hooks up at step 2.</li> </ul>	
<i>Dependent UC</i>		

<i>Name</i>	<b>Remove Resource</b>	<b>TCH 2.2</b>
<i>Goal</i>	Remove a resource from the system	
<i>Participating actors</i>	Teacher	
<i>Precondition</i>		
<i>Event flow</i>	<p>Teacher is at the <b>SHARE</b> page.</p> <ol style="list-style-type: none"> <li>1. Teacher clicks on the “Remove” button next to the chosen resource.</li> <li>2. Teacher is displayed dialog containing a confirmation question about removing the resource.</li> <li>3. Teacher clicks on confirm button</li> <li>4. The system shows the Teacher the <b>SHARE page</b>.</li> </ol> <p>The resource is removed from the system</p>	
<i>Exceptions</i>		
<i>Extensions</i>		
<i>Dependent UC</i>		

### 3.2.8 Course

<i>Name</i>	<b>Create Tutorial</b>	<b>TCH 3.0</b>
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<i>Goal</i>	Add a new tutorial to the system.
<i>Participating actors</i>	Teacher
<i>Precondition</i>	The teacher is logged in.
<i>Event flow</i>	<p>Teacher is at the <b>HOME</b> page.</p> <ol style="list-style-type: none"> <li>1. Teacher clicks on the “My Account” button.</li> <li>2. Teacher is displayed the <b>MY ACCOUNT</b> page.</li> <li>3. Teacher is clicks on the “Share” button.</li> <li>4. Teacher is displayed the <b>SHARE</b> page.</li> <li>5. Teacher clicks the “Add new tutorial” Button</li> <li>6. Teacher is displayed an empty <b>EDIT TUTORIAL</b> page containing the required fields.</li> <li>7. Teacher fills in information about the new tutorial.</li> <li>8. Teacher clicks on submit button</li> <li>9. The system shows the Teacher the <b>SHARE</b> page showing the newly added topic.</li> </ol> <p>A new course is created in the system.</p>
<i>Exceptions</i>	<ul style="list-style-type: none"> <li>• After step 8, the system will notify about any invalid input. User continues at step 6.</li> </ul>
<i>Extensions</i>	<ul style="list-style-type: none"> <li>• When viewing a course, the possibility to create a tutorial is shown as well. The user hooks up at step 4.</li> <li>• When on HOME page, there is also possibility to create tutorial if user clicks on “Create a tutorial” button. The user hooks up at step 6.</li> </ul>
<i>Dependent UC</i>	<b>TCH 3.1</b>

<i>Name</i>	<b>Edit Tutorial</b>	<b>TCH 3.1</b>
<i>Goal</i>	Edit an existing tutorials description.	
<i>Participating actors</i>	Teacher	
<i>Precondition</i>	The teacher is logged in.	
<i>Event flow</i>	<p>Teacher is at the <b>SHARE</b> page.</p> <ol style="list-style-type: none"> <li>1. Teacher clicks on the “Edit” button next to the chosen tutorial.</li> <li>2. Teacher is displayed an <b>EDIT TUTORIAL</b> page containing the required fields, each filled in with information.</li> <li>3. Teacher updates information about the course.</li> <li>4. Teacher clicks on submit button</li> <li>5. The system shows the Teacher the <b>SHARE</b> page showing the edited tutorial.</li> </ol> <p>The existing tutorial is updated in the system</p>	
<i>Exceptions</i>	<ul style="list-style-type: none"> <li>• After step 4, the system will notify about any invalid input. User starts at step 3.</li> </ul>	
<i>Extensions</i>	<ul style="list-style-type: none"> <li>• When viewing a tutorial, the possibility to edit the tutorial is shown as well. The user hooks up at step 2.</li> </ul>	
<i>Dependent UC</i>		

<i>Name</i>	<b>Remove Tutorial</b>	<b>TCH 3.2</b>
<i>Goal</i>	Remove a tutorial from the system	
<i>Participating actors</i>	Teacher	
<i>Precondition</i>	The tutorial contains no resources	
<i>Event flow</i>	<p>Teacher is at the <b>SHARE</b> page.</p> <ol style="list-style-type: none"> <li>1. Teacher clicks on the “Remove” button next to the chosen tutorial.</li> <li>2. Teacher is displayed dialog containing a confirmation question about removing the tutorial.</li> <li>3. Teacher clicks on confirm button</li> <li>4. The system shows the Teacher the <b>SHARE</b> page.</li> </ol> <p>The tutorial is removed from the system</p>	
<i>Exceptions</i>		
<i>Extensions</i>		
<i>Dependent UC</i>		

<i>Name</i>	<b>Add resource/topic to tutorial</b>	<b>TCH 4</b>
<i>Goal</i>	To add some existing resource or topic into existing tutorial.	
<i>Participating actors</i>	Teacher	
<i>Precondition</i>	The tutorial exists and it’s owned by teacher	
<i>Event flow</i>	<p>Teacher is at the <b>TUTORIAL</b> page.</p> <ol style="list-style-type: none"> <li>1. Teacher clicks on “Organize tutorial” button from sidebar.</li> <li>2. Teacher is displayed page containing list of resources which teacher can add to the tutorial.</li> </ol>	
<i>Exceptions</i>		
<i>Extensions</i>		
<i>Dependent UC</i>	TCH 4.1	

<i>Name</i>	<b>Remove resource/topic from tutorial</b>	<b>TCH 4.1</b>
<i>Goal</i>	To remove some existing resource or topic into existing tutorial.	
<i>Participating actors</i>	Teacher	
<i>Precondition</i>	The tutorial exists and it’s owned by teacher	
<i>Event flow</i>	<p>Teacher is at the <b>TUTORIAL</b> page.</p> <ol style="list-style-type: none"> <li>1. Teacher clicks on “Organize tutorial” button from sidebar.</li> <li>2. Teacher is displayed page containing list of resources and topics which teacher can remove from the tutorial.</li> </ol>	

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<i>Exceptions</i>	
<i>Extensions</i>	
<i>Dependent UC</i>	

<i>Name</i>	<b>Add resource to topic</b>	<b>TCH 5</b>
<i>Goal</i>	To add existing resource into some topic.	
<i>Participating actors</i>	Teacher	
<i>Precondition</i>	The topic exists and it's owned by teacher	
<i>Event flow</i>	<p>Teacher is at the <b>TOPIC</b> page.</p> <ol style="list-style-type: none"> <li>1. Teacher clicks on "Edit resource list" button from sidebar.</li> <li>2. Teacher is displayed page containing list of resources which teacher can add to topic.</li> </ol>	
<i>Exceptions</i>		
<i>Extensions</i>		
<i>Dependent UC</i>	TCH 5.1	

<i>Name</i>	<b>Remove resource from topic</b>	<b>TCH 5.1</b>
<i>Goal</i>	To remove existing resource from some topic.	
<i>Participating actors</i>	Teacher	
<i>Precondition</i>	The topic exists and it's owned by teacher	
<i>Event flow</i>	<p>Teacher is at the <b>TOPIC</b> page.</p> <ol style="list-style-type: none"> <li>1. Teacher clicks on "Edit resource list" button from sidebar.</li> <li>2. Teacher is displayed page containing list of resources which teacher can remove from topic.</li> </ol>	
<i>Exceptions</i>		
<i>Extensions</i>		
<i>Dependent UC</i>		



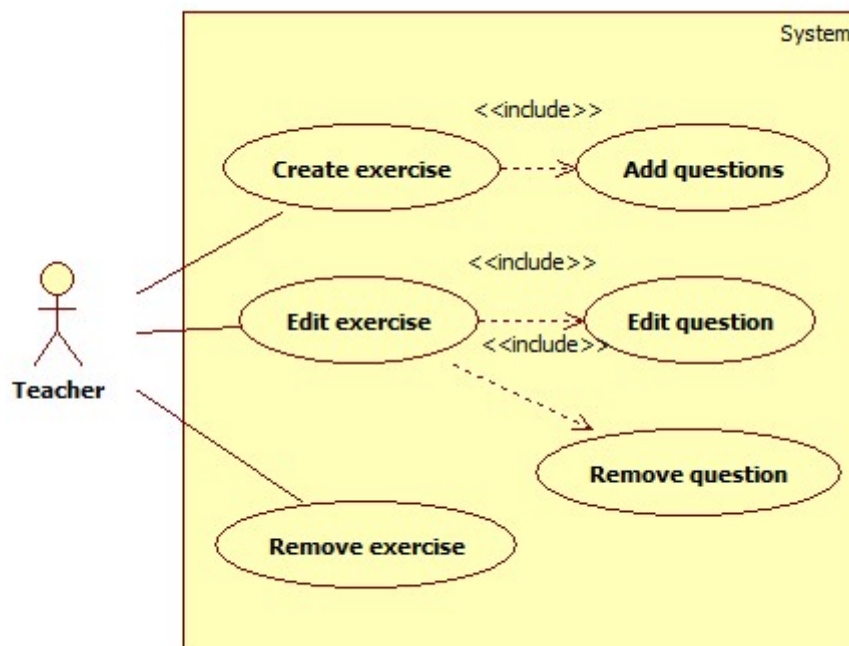


Figure 4 Teacher Use Case Diagram

<i>Name</i>	<b>Create Exercise</b>	<b>TCH 6.0</b>
<i>Goal</i>	Create a new exercise	
<i>Participating actors</i>	Teacher	
<i>Precondition</i>	Teacher has an existing course.	
<i>Event flow</i>	<p>Teacher is at the <b>MY ACCOUNT</b> page.</p> <ol style="list-style-type: none"> <li>1. Teacher clicks on “Share” tab.</li> <li>2. Teacher is displayed Share tab.</li> <li>3. Teacher selects “Add exercise” button next to the chosen course.</li> <li>4. Teacher is displayed <b>EDIT EXERCISE</b> page form, containing name and descriptions fields.</li> <li>5. Teacher fills in required information.</li> <li>6. Using AJAX, teacher can add multiple choice questions to the exercise.</li> <li>7. When finished, Teacher clicks on confirm button</li> <li>8. The system shows the Teacher the <b>COURSE</b> page.</li> </ol> <p>The exercise is saved in the system.</p>	
<i>Exceptions</i>		
<i>Extensions</i>	<ul style="list-style-type: none"> <li>• When viewing course, it’s also possible to create exercise. User hooks up at step 4.</li> </ul>	
<i>Dependent UC</i>	TCH 6.1	

<i>Name</i>	<b>Add Question</b>	<b>TCH 6.1</b>
<i>Goal</i>	Create a new question for a exercise	

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<i>Participating actors</i>	Teacher
<i>Precondition</i>	Teacher is owner of that exercise.
<i>Event flow</i>	<p>Teacher is at the <b>EDIT EXERCISE</b> page.</p> <ol style="list-style-type: none"> <li>1. Teacher clicks on add questions button</li> <li>2. Teacher is shown the <b>add question form</b>, using AJAX</li> <li>3. Teacher fills in question and possible answers</li> <li>4. Teacher selects good answer.</li> <li>5. Teacher clicks on add question button.</li> <li>6. The form is submitted using AJAX</li> <li>7. The question is shown on the exercise page using AJAX</li> </ol> <p>The question is saved in the system.</p>
<i>Exceptions</i>	.
<i>Extensions</i>	
<i>Dependent UC</i>	TCH 6.0

<i>Name</i>	<b>Edit Exercise</b>	<b>TCH 7.0</b>
<i>Goal</i>	Create a new exercise	
<i>Participating actors</i>	Teacher	
<i>Precondition</i>	Teacher has an existing course; teacher is owner of that exercise.	
<i>Event flow</i>	<p>Teacher is at the <b>EXERCISE</b> page.</p> <ol style="list-style-type: none"> <li>1. Teacher clicks “edit this exercise ” on left side</li> <li>2. Teacher is shown the <b>EDIT EXERCISE</b> page, the description is a form.</li> <li>3. Teacher modifies the exercise name.</li> <li>4. Teacher clicks button save.</li> <li>5. Teacher is shown the <b>EXERCISE</b> page, with a notification “Exercise name saved”</li> </ol> <p>The updated exercise is saved in the system.</p>	
<i>Exceptions</i>		
<i>Extensions</i>		
<i>Dependent UC</i>	TCH 6.0, TCH 6.1	

<i>Name</i>	<b>Edit Question</b>	<b>TCH 7.1</b>
<i>Goal</i>	Modify the content of a question	
<i>Participating actors</i>	Teacher	
<i>Precondition</i>	An exercise contains questions; teacher is owner of that exercise.	
<i>Event flow</i>	<p>Teacher is at the <b>EXERCISE</b> page.</p> <ol style="list-style-type: none"> <li>1. Teacher clicks “edit this exercise ” on left side</li> <li>2. Teacher is shown the <b>EDIT EXERCISE</b> page, each question is a form.</li> <li>3. Teacher modifies the content of the question.</li> <li>4. Teacher clicks button save of this question.</li> <li>5. A message box shows “question saved”</li> </ol> <p>The updated question is saved in the system.</p>	
<i>Exceptions</i>		
<i>Extensions</i>		
<i>Dependent UC</i>	TCH 6.0, TCH 6.1	

<i>Name</i>	<b>Remove Question</b>	<b>TCH 7.2</b>
<i>Goal</i>	Remove a question from an exercise.	
<i>Participating actors</i>	Teacher	
<i>Precondition</i>	An exercise contains questions; teacher is owner of that exercise.	
<i>Event flow</i>	<p>Teacher is at the <b>EXERCISE</b> page.</p> <ol style="list-style-type: none"> <li>1. Teacher clicks “Edit this exercise ” on left side</li> <li>2. Teacher is shown the <b>EDIT EXERCISE</b> page, each question is a form.</li> <li>3. Teacher clicks on the “Remove question” button at the bottom of a question.</li> <li>4. Teacher is shown the <b>EXERCISE</b> page, now without the question.</li> </ol> <p>The question is removed from the system.</p>	
<i>Exceptions</i>		
<i>Extensions</i>		
<i>Dependent UC</i>	TCH 6.0, TCH 6.1	

<i>Name</i>	<b>Remove Exercise</b>	<b>TCH 8.0</b>
<i>Goal</i>	Remove an exercise.	
<i>Participating actors</i>	Teacher	
<i>Precondition</i>	An exercise exists; teacher is owner of that exercise.	
<i>Event flow</i>	<p>Teacher is at the <b>EXERCISE</b> page.</p> <ol style="list-style-type: none"> <li>1. Teacher clicks on the remove button, next to an exercise.</li> <li>2. A dialog appears, questioning if the exercise really needs to be removed.</li> <li>3. Teacher answers yes.</li> <li>4. Teacher is shown the <b>COURSE</b> page, now without the exercise.</li> </ol> <p>The exercise is removed from the system, also with its questions.</p>	
<i>Exceptions</i>		
<i>Extensions</i>		
<i>Dependent UC</i>	TCH 6.0, TCH 6.1	

### 3.3 Student

#### Introduction

#### Use case diagram

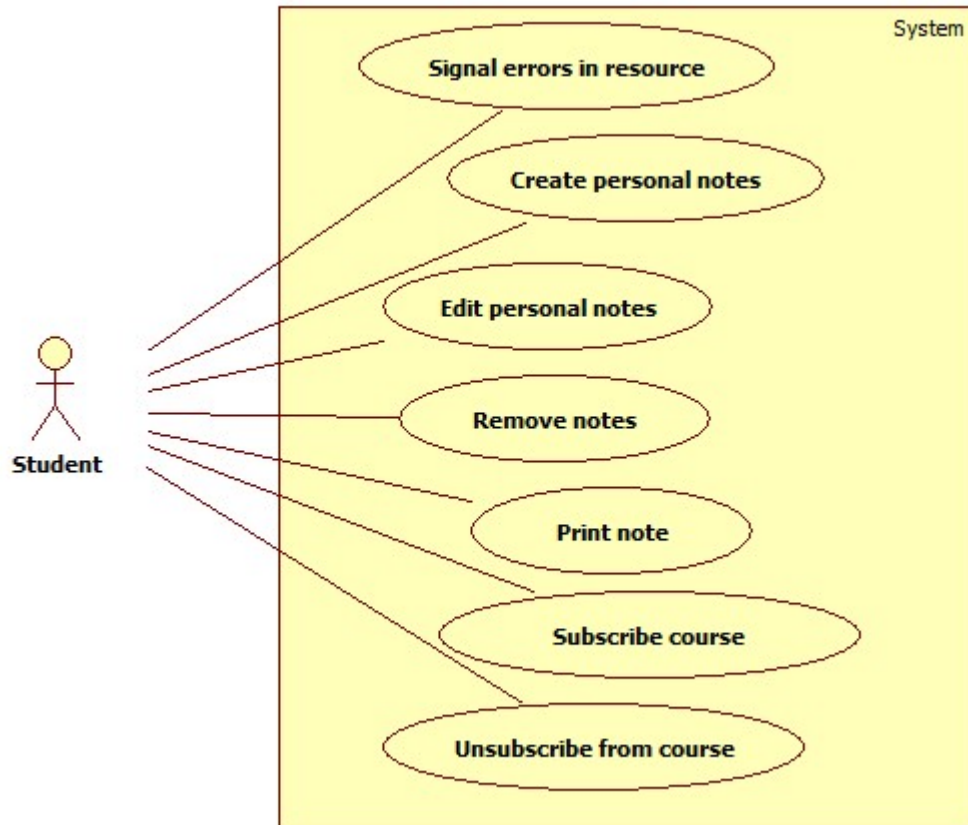


Figure 6 Student Use Case Diagram

### 3.3.1 Note about Resource

<i>Name</i>	<b>Create personal note about resource</b>	<b>STD 1.0</b>
<i>Goal</i>	Add new note about resource	
<i>Participating actors</i>	Student	
<i>Precondition</i>	The student is logged in.	
<i>Event flow</i>	<p>Student is at the <b>HOME</b> page.</p> <ol style="list-style-type: none"> <li>1. Student clicks on the “Browse” button.</li> <li>2. Student is displayed the <b>BROWSE</b> page.</li> <li>3. Student clicks the “Resource” Button</li> <li>4. Student is displayed a <b>RESOURCES RESULT</b> page listing all the resources.</li> <li>5. Student selects Resource from the grid.</li> <li>6. Student is displayed selected <b>RESOURCE</b> page.</li> <li>7. Student clicks on “Add new note” button.</li> <li>8. Student is displayed empty <b>EDIT NOTE</b> page containing the required fields: note title and text.</li> <li>9. Student fills in information about the new note.</li> <li>10. Student clicks on submit button</li> <li>11. The system shows the Student the <b>RESOURCE</b> page showing the newly added note on the top.</li> </ol> <p>A new note is created in the system</p>	
<i>Exceptions</i>	<ul style="list-style-type: none"> <li>• During step 10, the system will notify about any invalid input. Student starts at step 9.</li> </ul>	
<i>Extensions</i>		
<i>Dependent UC</i>	<b>STD 1.1</b>	

<i>Name</i>	<b>Edit Note about Resource</b>	<b>STD 1.1</b>
<i>Goal</i>	Edit an existing notes description.	
<i>Participating actors</i>	Student	
<i>Precondition</i>	The student is logged in.	
<i>Event flow</i>	<p>Student is at the <b>RESOURCE</b> page.</p> <ol style="list-style-type: none"> <li>1. Student clicks on the “display note” button to view the selected note</li> <li>2. The note is expanded, the content is editable, the student can change note title and text</li> <li>3. The student clicks “Save changes”, the note will be saved and show <b>RESOURCE</b> page again.</li> </ol> <p>The existing note is updated in the system</p>	
<i>Exceptions</i>	<ul style="list-style-type: none"> <li>• During step 4, the system will notify about any invalid input. User continues at step 3.</li> </ul>	
<i>Extensions</i>		
<i>Dependent UC</i>		

<i>Name</i>	<b>Remove Note from Resource</b>	<b>STD 1.2</b>
<i>Goal</i>	Remove a note from the resource	

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<i>Participating actors</i>	Student
<i>Precondition</i>	
<i>Event flow</i>	<p>Student is at the <b>RESOURCE</b> page.</p> <ol style="list-style-type: none"> <li>1. Student clicks on the “display note” button to view the selected note</li> <li>2. The note is expanded, the student clicks delete button</li> <li>3. The note is deleted</li> </ol> <p>The note is removed from the resource.</p>
<i>Exceptions</i>	
<i>Extensions</i>	.
<i>Dependent UC</i>	

<i>Name</i>	<b>Print Note</b>	<b>STD 1.3</b>
<i>Goal</i>	To send note to the printer	
<i>Participating actors</i>	Student	
<i>Precondition</i>		
<i>Event flow</i>	<p>Student is at the <b>RESOURCE</b> page.</p> <ol style="list-style-type: none"> <li>1. Student clicks on the “display note” button to view the selected note</li> <li>2. The note is expanded, the student clicks print button</li> <li>3. The print web page will be shown.</li> </ol> <p>The note is printed to the paper.</p>	
<i>Exceptions</i>		
<i>Extensions</i>		
<i>Dependent UC</i>		

### 3.3.2 Note about Topic

<i>Name</i>	<u>Create Note about topic</u>	<u>STD 2.0</u>
<i>Goal</i>	<u>Add new note about topic</u>	
<i>Participating actors</i>	<u>Student</u>	
<i>Precondition</i>	<u>The student is logged in.</u>	
<i>Event flow</i>	<p><u>Student is at the HOME page.</u></p> <ol style="list-style-type: none"> <li>1. <u>Student clicks on the “Browse” button.</u></li> <li>2. <u>Student is displayed the BROWSE page.</u></li> <li>3. <u>Student clicks the “Topic” Button</u></li> <li>4. <u>Student selects Topic from the grid.</u></li> <li>5. <u>Student is displayed selected TOPIC page.</u></li> <li>6. <u>Student clicks on “Add note” button.</u></li> <li>7. <u>Student is displayed empty EDIT NOTE page containing the required fields.</u></li> <li>8. <u>Student fills in information about the new note.</u></li> <li>9. <u>Student clicks on submit button</u></li> <li>10. <u>The system shows the Student the TOPIC page showing the newly added note.</u></li> </ol>	

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	A new note is created in the system
<i>Exceptions</i>	<ul style="list-style-type: none"> <li>During step 10, the system will notify about any invalid input. Student starts at step 9.</li> </ul>
<i>Extensions</i>	
<i>Dependent UC</i>	<b>STD 2.1</b>

<i>Name</i>	<b>Edit Note about topic</b>	<b>STD 2.1</b>
<i>Goal</i>	Edit an existing notes description.	
<i>Participating actors</i>	Student	
<i>Precondition</i>	The student is logged in.	
<i>Event flow</i>	<p>Student is at the <b>TOPIC</b> page.</p> <ol style="list-style-type: none"> <li>Student clicks on the “Edit” button next to the chosen note.</li> <li>Student is displayed an <b>EDIT NOTE</b> page containing the required fields, each filled in with information.</li> <li>Student updates information about the note.</li> <li>Student clicks on submit button</li> <li>The system shows the Student the <b>TOPIC</b> page showing the edited note.</li> </ol> <p>The existing note is updated in the system</p>	
<i>Exceptions</i>	<ul style="list-style-type: none"> <li>During step 4, the system will notify about any invalid input. User continues at step 3.</li> </ul>	
<i>Extensions</i>	<ul style="list-style-type: none"> <li>When viewing <b>MY CONTENT</b>, the possibility to edit the note is shown as well in list of student notes.</li> </ul>	
<i>Dependent UC</i>		

<i>Name</i>	<b>Remove Note from topic</b>	<b>STD 2.2</b>
<i>Goal</i>	Remove a note from the topic	
<i>Participating actors</i>	Student	
<i>Precondition</i>		
<i>Event flow</i>	<p>Student is at the <b>TOPIC</b> page.</p> <ol style="list-style-type: none"> <li>Student clicks on the “Remove” button next to the chosen note.</li> <li>Student is displayed dialog containing a confirmation question about removing the note.</li> <li>Student clicks on confirm button</li> <li>The system shows the Student the <b>TOPIC</b> page.</li> </ol> <p>The note is removed from the resource.</p>	
<i>Exceptions</i>		
<i>Extensions</i>	<ul style="list-style-type: none"> <li>When viewing <b>MY CONTENT</b>, the possibility to remove the note is shown as well in list of student notes.</li> </ul>	
<i>Dependent UC</i>		



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<i>Name</i>	<b>Print Note from the Topic</b>	<b>STD 2.3</b>
<i>Goal</i>	To send note to the printer	
<i>Participating actors</i>	Student	
<i>Precondition</i>		
<i>Event flow</i>	<p><u>Student is at the <b>TOPIC</b> page.</u></p> <ol style="list-style-type: none"> <li>1. <u>Student clicks on the “Print” button next to the chosen note.</u></li> <li>2. <u>Student is displayed dialog containing a confirmation dialog about printing note.</u></li> <li>3. <u>Student clicks that it is ok to print note.</u></li> <li>4. <u>The system sends file to the printer.</u></li> <li>5. <u>The system shows the Teacher the <b>TOPIC</b> page.</u></li> </ol> <p><u>The note is printed to the paper.</u></p>	
<i>Exceptions</i>	<ul style="list-style-type: none"> <li>• <u>If no printer found at step 2, then go to step 5.</u></li> </ul>	
<i>Extensions</i>	<ul style="list-style-type: none"> <li>• <u>When viewing <b>MY CONTENT</b>, the possibility to edit the note is shown as well in list of student notes.</u></li> </ul>	
<i>Dependent UC</i>		

### 3.3.3 Tutorial subscription

<i>Name</i>	<b>Subscribe to Tutorial</b>	<b>STD 3.0</b>
<i>Goal</i>	Subscribe student to specific tutorial	
<i>Participating actors</i>	Student	
<i>Precondition</i>	The student is logged in.	
<i>Event flow</i>	<p>Student is at the <b>HOME</b> page.</p> <ol style="list-style-type: none"> <li>1. Student clicks on the “Browse” button.</li> <li>2. Student is displayed the <b>BROWSE</b> page.</li> <li>3. Student clicks the “Tutorials” Tab.</li> <li>4. The system shows the Student <b>TUTORIAL RESULT</b> page with all tutorials.</li> <li>5. Student clicks on a specific tutorial and the <b>TUTORIAL PAGE</b> is shown.</li> <li>6. Student clicks on the “Subscribe to Tutorial” button on the left panel.</li> <li>7. A message shows that you have subscribed the tutorial.</li> </ol> <p>A new subscription is created in the system</p>	
<i>Exceptions</i>		
<i>Extensions</i>	New subscription is also viewed in list under <b>MY ACCOUNT</b> in <b>FOLLOW</b> section under Tutorial subscriptions.	
<i>Dependent UC</i>	<b>STD 3.1</b>	

<i>Name</i>	<b>Unsubscribe from Tutorial</b>	<b>STD 3.1</b>
<i>Goal</i>	Unsubscribe student to specific tutorial	
<i>Participating actors</i>	Student	

<i>Precondition</i>	Student must be logged in and subscribed to the tutorial.
<i>Event flow</i>	<p>Student is at the <b>HOME</b> page.</p> <ol style="list-style-type: none"> <li>1. Student clicks on the “My account” button.</li> <li>2. Student is displayed the <b>MY ACCOUNT</b> page.</li> <li>3. Student clicks the “Follow” Tab.</li> <li>4. The system shows the Student <b>FOLLOW</b> page with all subscriptions.</li> <li>5. Student clicks on Delete button next to the chosen tutorial.</li> <li>6. A message shows that you have unsubscribed from the tutorial.</li> </ol> <p>The existing subscription is removed from the system</p>
<i>Exceptions</i>	
<i>Extensions</i>	<ul style="list-style-type: none"> <li>• It’s also possible to unsubscribe from Tutorial when visiting tutorial page. User clicks on the Unsubscribe from tutorial on sidebar. User hooks up at step 6.</li> </ul>
<i>Dependent UC</i>	

<i>Name</i>	<b>Signal errors in Resource</b>	<b>STD 4.0</b>
<i>Goal</i>	To signalize error to the owner of the specific resource	
<i>Participating actors</i>	Student	
<i>Precondition</i>	Student must be logged in.	
<i>Event flow</i>	<p>Student is at the <b>RESOURCE</b> page.</p> <ol style="list-style-type: none"> <li>1. Student clicks on the “Report error” button on the <b>RESOURCE</b> page.</li> <li>2. Student is displayed dialog where message for teacher about the error can be entered.</li> <li>3. Student clicks on confirm button</li> <li>4. The system shows the Student the <b>RESOURCE</b> page.</li> </ol> <p>The error message is sent to teacher’s email.</p>	
<i>Exceptions</i>		
<i>Extensions</i>		
<i>Dependent UC</i>		

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## 4. Requirements Definition

### 4.1 Requirement Group Definitions

Identification	Requirement Group	Rem.
GEN	General Actions, which can be done by every users of the system.	
REG	Registered Actions, which can be performed by users logged in to the system	
STD	Student Actions, which can be performed by users logged in as students	
TCH	Teacher Actions, which can be performed by users logged in as teachers	
ADM	Administrator Actions	

### 4.2 Requirement Sources

Source	Description	Rem.
Ctm	Customer S. Seventilles	
Sys	Required as a consequence of system design (contractor's requirement)	
Add	Additional Requirements made up by the project team.	

### 4.3 Requirements Definitions

Identity	Status	Priority	Description	Source
			General Actions	
GEN-1	I	1	Login	Ctm
GEN-1.1	I	1	Register	Ctm
GEN-1.2	I	1	Logout	Ctm
GEN-2	I	1	View Resource List	Ctm
GEN-3.	I	2	Filter Resources	Ctm
GEN-4	I	1	View Resource	Ctm
GEN-5	I	1	View Tutorial List	Ctm
GEN-6	I	2	Filter Tutorial	Ctm
GEN-7	I	1	View Tutorial	Ctm
GEN-8	I	1	View Topic List	Ctm
GEN-9	I	2	Filter Topic	Ctm
GEN-10	I	1	View Topic	Ctm
GEN-11	I	1	Use flashcard set	Ctm
GEN-12	A	2	Search for flashcard sets	Add
GEN-13	I	1	Perform Exercise	Ctm
GEN-13.1	I	1	Answer Question	Ctm
GEN-14	A	3	Display user page	Add
GEN-15	A	2	Search widget	Add
GEN-16	I	1	Comments feature on resource	Ctm
GEN-17	I	1	Comments feature on tutorial	Ctm
			Registered Actions	
REG-1	A	1	Create flashcard set	Add
REG-1.1	A	1	Edit flashcard set	Add
REG-1.2	A	3	Remove flashcard set	Add
REG-1.3	I	1	Share flashcard set	Ctm
REG-1.4	I	1	View flashcard set	Ctm
REG-2	I	1	Add flashcard to set	Ctm
REG-2.1	I	1	Edit flashcard in set	Ctm
REG-2.2	I	2	Remove flashcard from set	Ctm
REG-3	I	3	Kudo a course/resource/exercise	Add
REG-4	A	3	Subscribe to user	Add

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REG-4.1	A	3	Unsubscribe from user	Add
REG-4.2	A	3	Edit user page	Add
REG-5	A	3	Subscribe to topic	Add
REG-5.1	A	3	Unsubscribe from topic	Add
Teacher Actions				
TCH-1	I	1	Create topic	Ctm
TCH-1.1	I	1	Edit topic	Ctm
TCH-1.2	I	2	Remove topic	Ctm
TCH-2	I	1	Create resource	Ctm
TCH-2.1	I	1	Edit resource	Ctm
TCH-2.2	I	1	Remove resource	Ctm
TCH-3	I	1	Create tutorial	Ctm
TCH-3.1	I	2	Edit tutorial	Ctm
TCH-3.2	I	1	Remove tutorial	Ctm
TCH-4.	I	3	Add resource/topic to tutorial	Ctm
TCH-4.1	I	3	Remove resource/topic from tutorial	Ctm
TCH-5	I	3	Add resource to topic	Ctm
TCH-5.1	I	3	Remove resource from topic	Ctm
TCH-6	I	1	Create Exercise	Ctm
TCH-6.1	I	1	Add Question	Ctm
TCH-7	I	1	Edit Exercise	Ctm
TCH-7.1	I	1	Edit Question	Ctm
TCH-7.2	I	2	Remove Question	Ctm
TCH-8	I	2	Remove Exercise	Ctm
Student Actions				
STD-1	I	1	Create personal note about Resource	Ctm
STD-1.1	I	1	Edit Note about Resource	Ctm
STD-1.2	I	2	Remove Note from Resource	Ctm
STD-1.3	I	1	Print Note from the Resource	Ctm
<del>STD-2</del>	<del>I</del>	<del>1</del>	<del>Create Note about Topic</del>	<del>Ctm</del>
<del>STD-2.1</del>	<del>I</del>	<del>1</del>	<del>Edit Note about Topic</del>	<del>Ctm</del>
<del>STD-2.2</del>	<del>I</del>	<del>2</del>	<del>Remove Note from topic</del>	<del>Ctm</del>
<del>STD-2.3</del>	<del>I</del>	<del>1</del>	<del>Print Note from the Topic</del>	<del>Ctm</del>
STD-3	I	3	Subscribe to Tutorial	Ctm
STD-3.1	I	3	Unsubscribe from Tutorial	Ctm
STD-4	I	1	Signal errors in Resource	Ctm

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#### 4.3.1 Requirement status

- I* = *initial* (this requirement has been identified at the beginning of the project),  
*D* = *dropped* (this requirement has been deleted from the requirement definitions),  
*H* = *on hold* (decision to be implemented or dropped will be made later),  
*A* = *additional* (this requirement was introduced during the project course).

#### 4.3.2 Requirement priority

- 1 = **MUST**: Describes a requirement that must be satisfied in the final solution for the solution to be considered a success.  
2 = **SHOULD**: Represents a high-priority item that should be included in the solution if it is possible. This is often a critical requirement but one which can be satisfied in other ways if strictly necessary.  
3 = **COULD**: Describes a requirement which is considered desirable but not necessary. This will be included if time and resources permit.  
4 = **WOULD**: Represents a requirement that stakeholders have agreed will not be implemented in a given release, but may be considered for the future.

#### 4.3.3 Change Log

Identity	Action	Date	Comments
GEN-5		13-1-2012	Changed from search course to filter tutorial
GEN-6		13-1-2012	Changed from course to tutorial
GEN-7		13-1-2012	Changed from course to tutorial
GEN-3		13-1-2012	Changed from search to filter
GEN-9		13-1-2012	Changed from search to filter
TCH-3		13-1-2012	Changed from course to tutorial
TCH-3.1		13-1-2012	Changed from course to tutorial
TCH-3.2		13-1-2012	Changed from course to tutorial
TCH-4.		13-1-2012	Changed from course to tutorial
TCH-4.1		13-1-2012	Changed from course to tutorial
STD-2	D	9-1-2012	Not very meaningful and not realized
STD-2.1	D	9-1-2012	Not very meaningful and not realized
STD-2.2	D	9-1-2012	Not very meaningful and not realized
STD-2.3	D	9-1-2012	Not very meaningful and not realized
REG-3	A	9-1-2012	Kudos functionality

Requirement status:

- D* = *dropped* (this requirement has been deleted from the requirement definitions),  
*H* = *on hold* (decision to be implemented or dropped will be made later),  
*A* = *added* (this requirement was introduced during the project course).  
R = resurrected (dropped or on hold requirement was reactivated)