



Requirements and design presentation

Distributed Software Development

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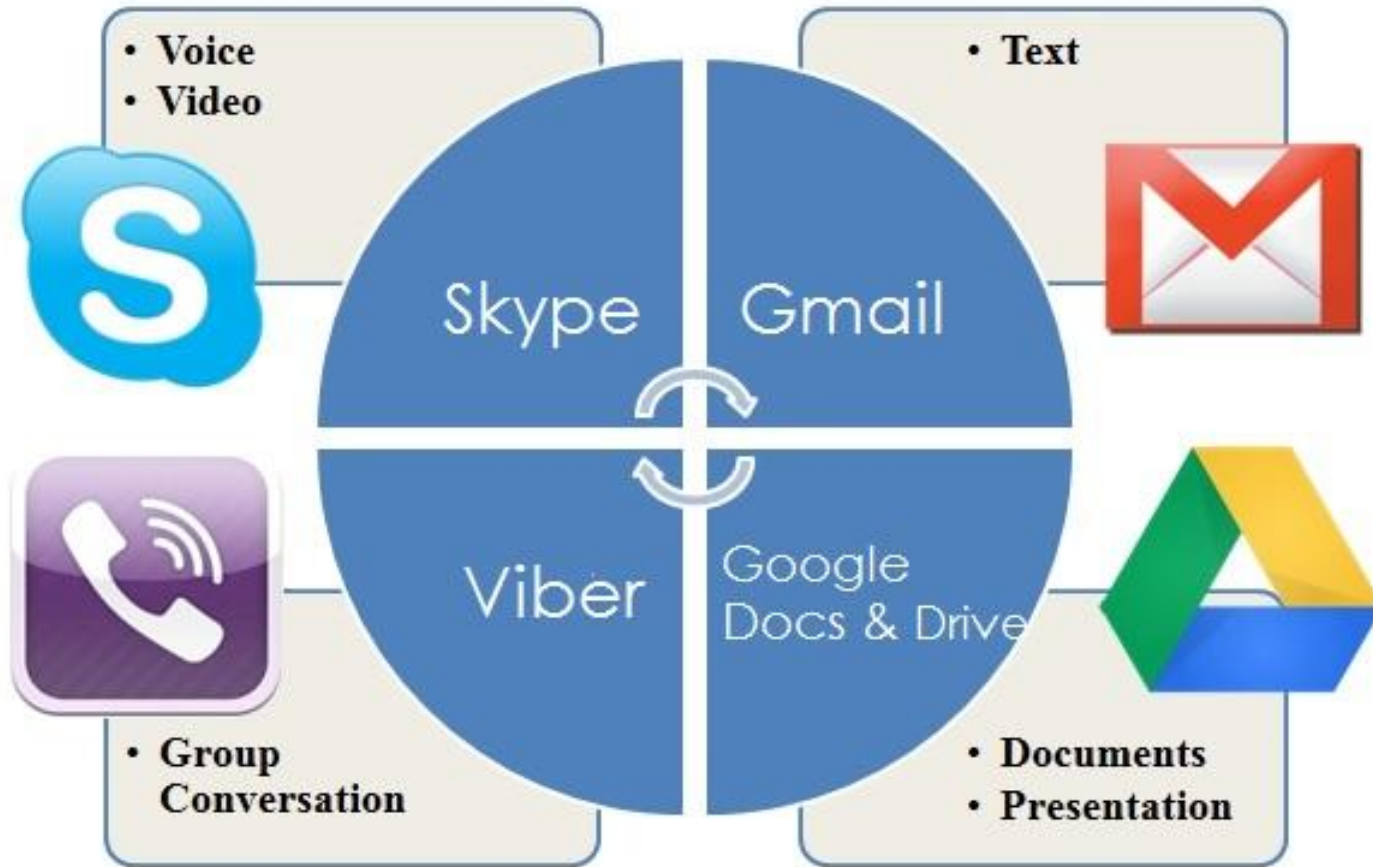
Project background

- Research center Embedded System as customer
- Extend the current functionalities of the existing system
- Match calls with researchers' profiles / research interests

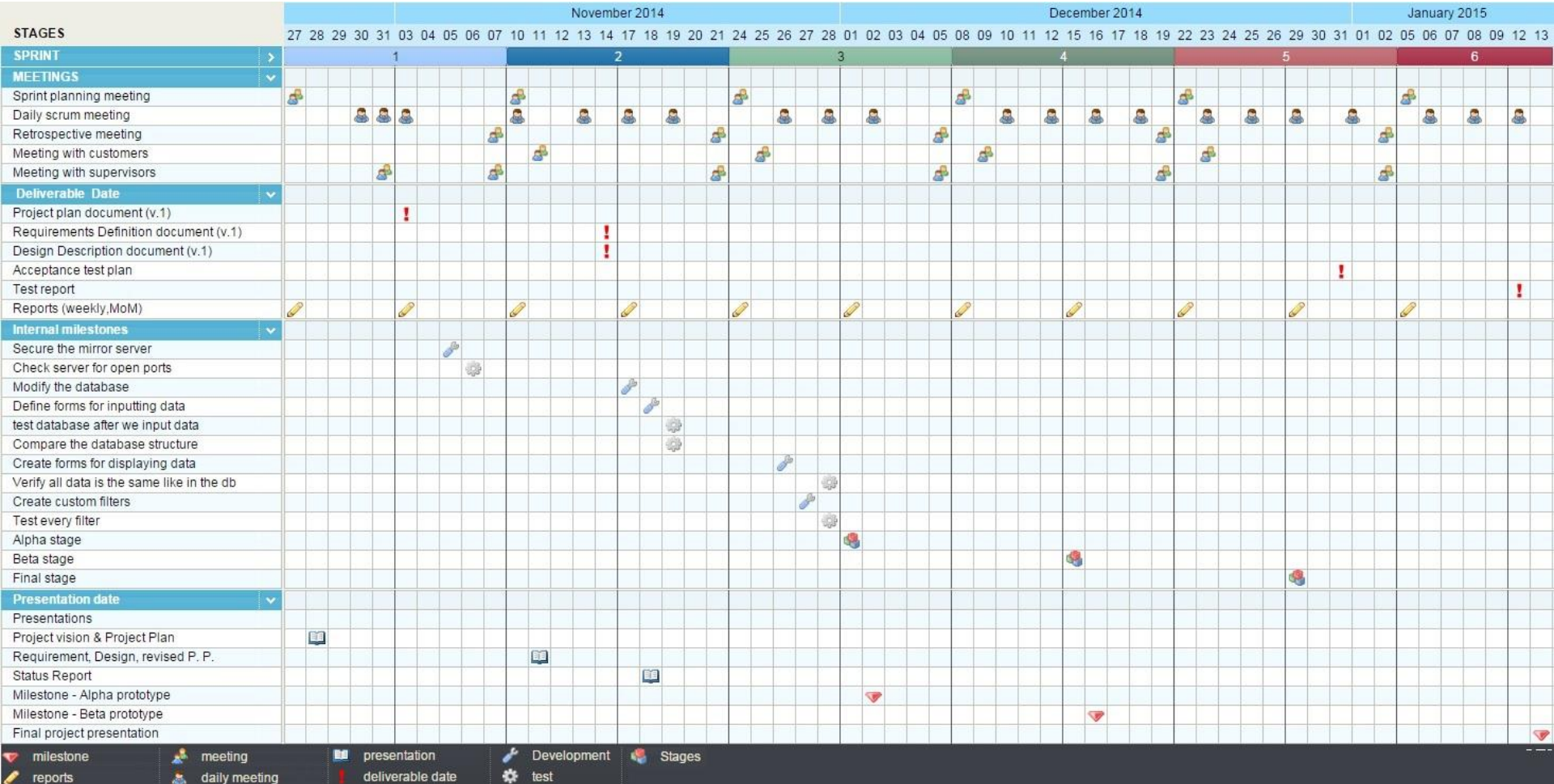
Recent changes

- Assigned product owner role
- Switch communication from Hangouts to Viber
- Work division - assigned tasks to the team members

Communication



Milestones and deliverables



STAGES	November 2014																			
	27	28	29	30	31	03	04	05	06	07	10	11	12	13	14	17	18	19	20	21
SPRINT	1										2									
MEETINGS																				
Sprint planning meeting																				
Daily scrum meeting																				
Retrospective meeting																				
Meeting with customers																				
Meeting with supervisors																				
Deliverable Date																				
Project plan document (v.1)						!														
Requirements Definition document (v.1)																	!			
Design Description document (v.1)																	!			
Acceptance test plan																				
Test report																				
Reports (weekly, MoM)																				
Internal milestones																				
Secure the mirror server																				
Check server for open ports																				
Modify the database																				
Define forms for inputting data																				
test database after we input data																				
Compare the database structure																				
Create forms for displaying data																				
Verify all data is the same like in the db																				
Create custom filters																				
Test every filter																				
Alpha stage																				
Beta stage																				
Final stage																				
Presentation date																				
Presentations																				
Project vision & Project Plan																				
Requirement, Design, revised P. P.																				
Status Report																				
Milestone - Alpha prototype																				
Milestone - Beta prototype																				
Final project presentation																				

milestone	meeting	presentation	Development
reports	daily meeting	deliverable date	test



STAGES

24 25 26 27 28 01 02 03 04 05 08 09 10 11 12 15 16 17 18 19

STAGES	24	25	26	27	28	01	02	03	04	05	08	09	10	11	12	15	16	17	18	19
SPRINT	3										4									
MEETINGS																				
Sprint planning meeting	meeting										meeting									
Daily scrum meeting		daily meeting		daily meeting	daily meeting		daily meeting					daily meeting		daily meeting	daily meeting	daily meeting	daily meeting	daily meeting	daily meeting	
Retrospective meeting										meeting										meeting
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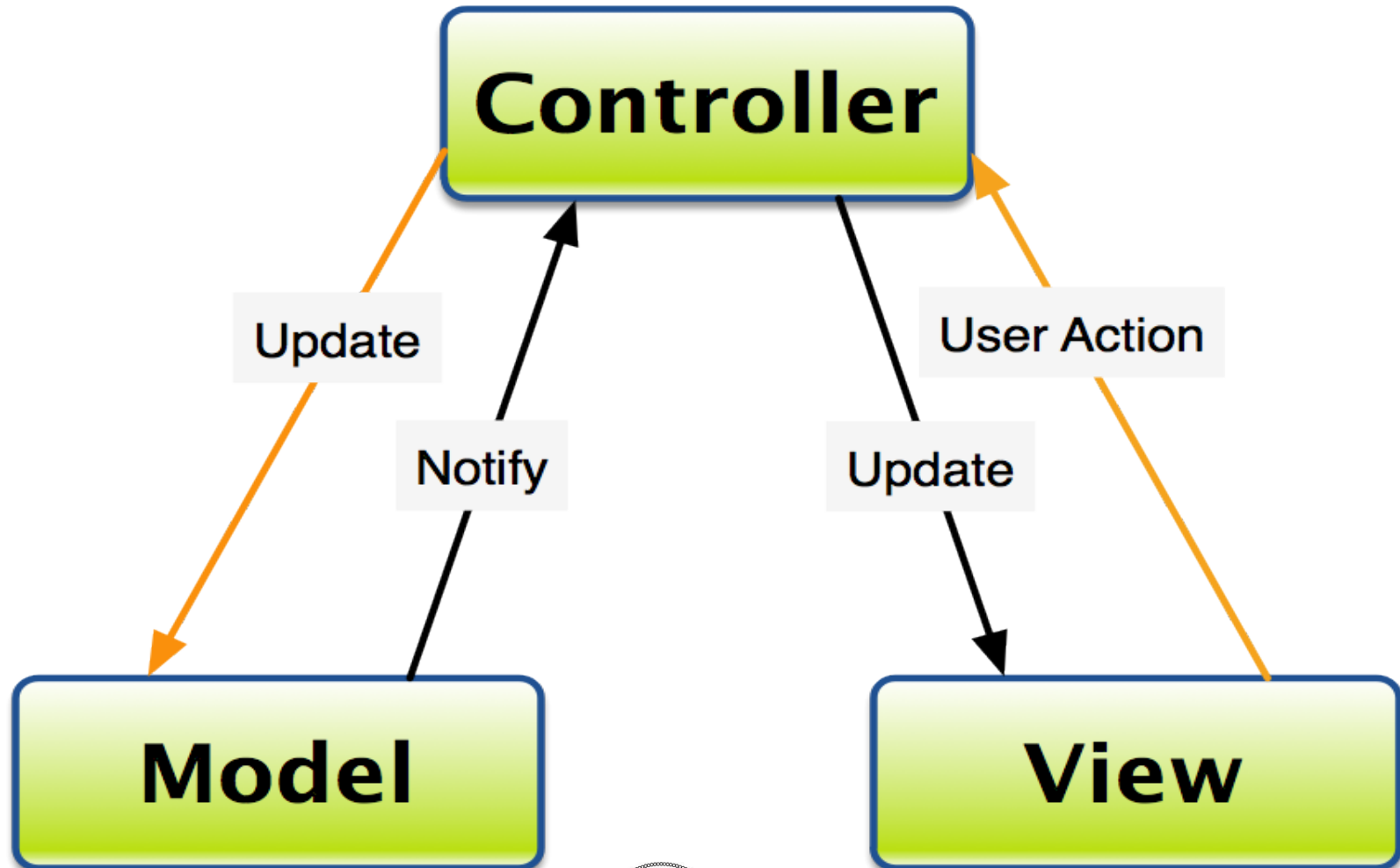
milestone	meeting	presentation	Development	Stages
reports	daily meeting	deliverable date	test	



Work division

Role	Team member(s)
Document manager	Biljana, Marko Velickovic
Design Manager	Biljana, Marko Velickovic
Development team leader	Hrvoje, Damian
Server maintenance	Hrvoje, Marko Vuglec
Quality assurance and risk management	Abdur Razzaque, Marko Vuglec

System architecture

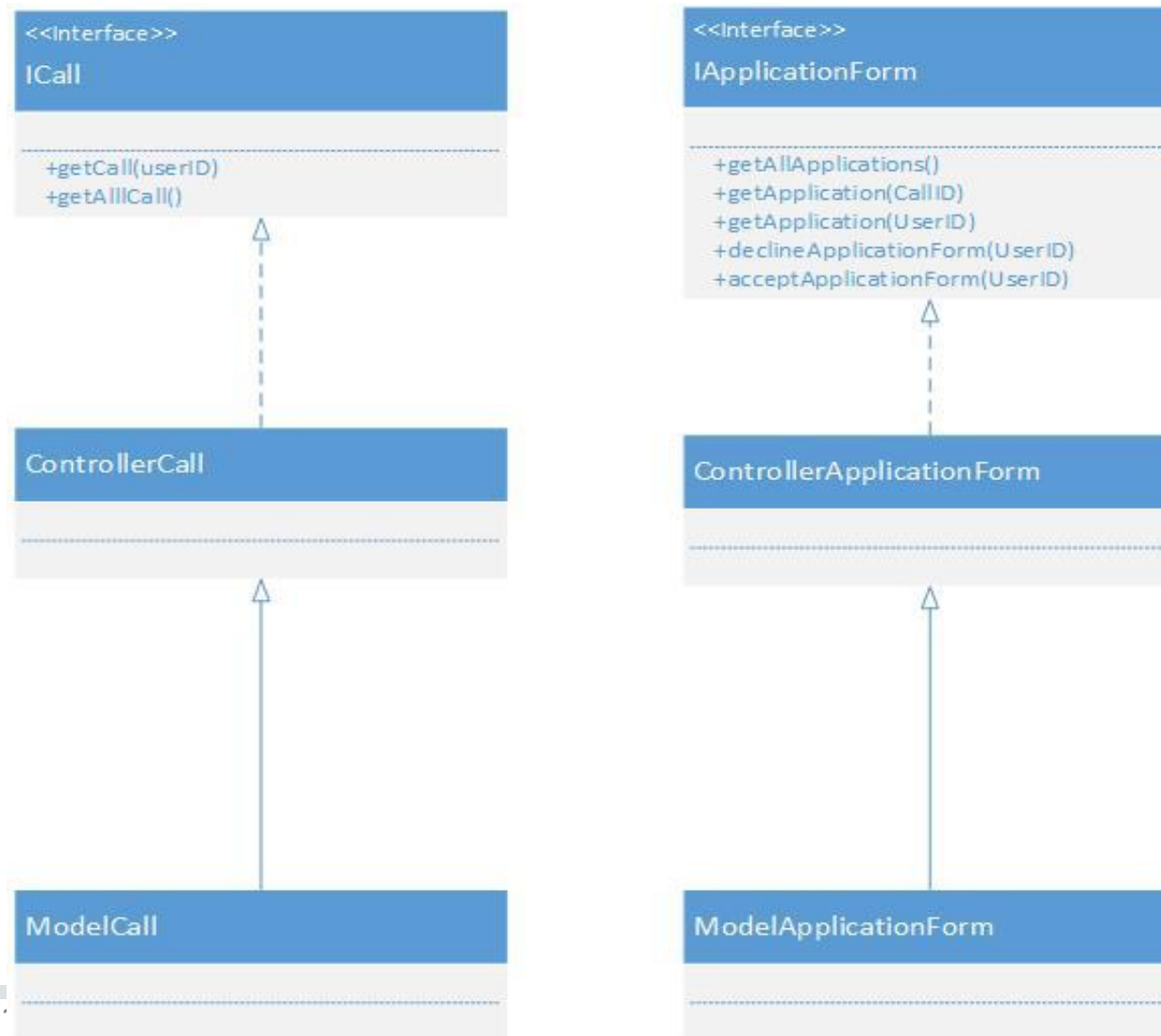


Functional requirements

The system shall enable:

- Adding new call
- Viewing all calls
- Filtering calls by agencies
- Filtering calls by status(past/active)
- Send email notification to all researchers who might be interested
- Adding application form to the call
- Storing approved applications forms
- Viewing and generating reports about the call
- Generating reports about all applications for the call
- Viewing each call in detail

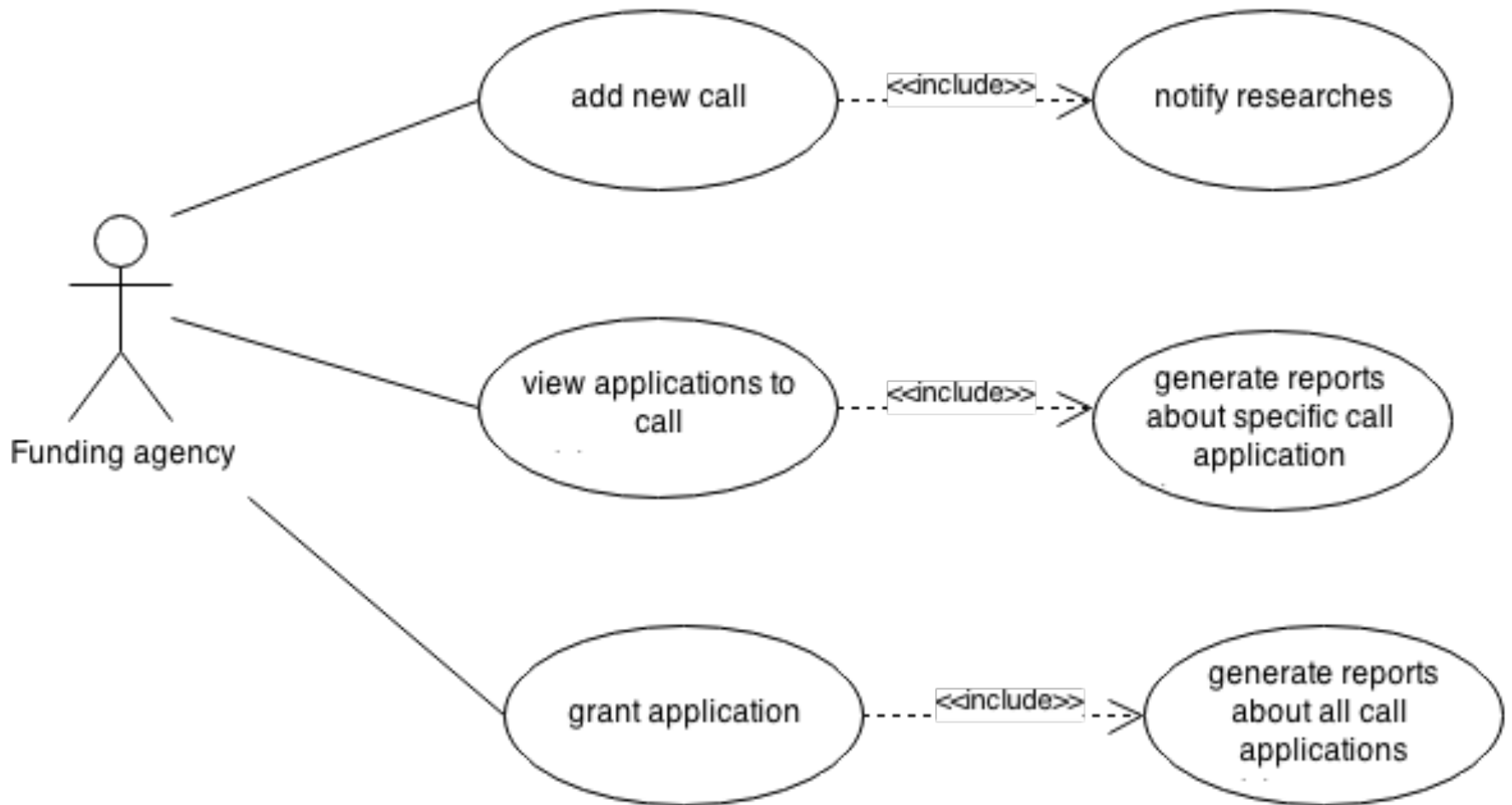
Mapping between functionalities and units



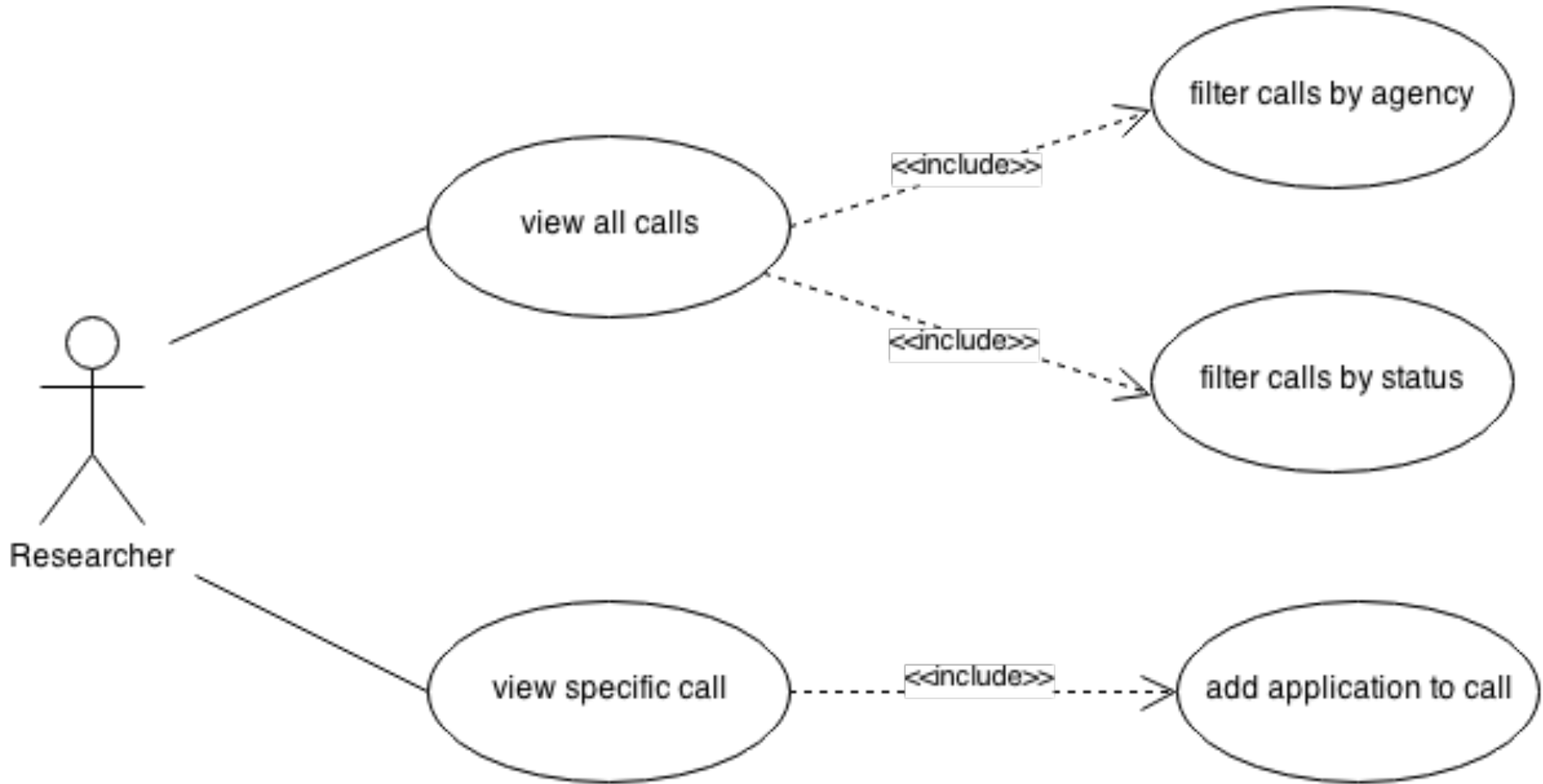
User stories

- As a funding agency, I want to add agency calls like I can add funding agencies, so that I can keep track of them and notify others interested in certain call
- As a funding agency, I want to view all applications for the specific call, so that i can decide between them
- As a funding agency, I want easy way to grant certain application
- As a researcher, I want to be able to see current and past calls, so I can decide should I apply
- As a user, I want to be able to see complete details about each call with all documents, so I can decide if I am interested in it

Use case diagram – funding agency



Use case diagram – researcher



Non-functional requirements

- Performance
- Optimization of SQL

Technologies

- PHP
- HTML
- Smarty
- SQL

Testing requirements

- Internal Tests
- Alpha stage Tests
- Beta stage/Finished product Tests

Initial product backlog

- Documentation
 - Requirements Definition document
 - Design Description document
- Setup the mirror server
- Secure the mirror server
- Link the mirror server to Github

Quality assurance

- Organizing and attending daily meetings, sprint review meeting and retrospective meeting
- Every experience will be documented
- Product owner and scrum master are controlling progress of the team with the help of quality assurance
- Communication through several channels between team members
- Created Github repository will contain implementation files that will be accessible why team members, supervisors and customers
- Verify that team is working on repairing failed tests
- Create schedule and follow it
- Discuss failed tasks and modify project plan and schedule so that fails do not repeat

Project Risks

- Wrong interpretation of requirements
- Poor communication with the customer
- Problems with system consolidation
- Unrealistic schedule
- Resource shortfalls
- Lack of technical knowledge
- Bad communication between members
- Member(s) not fulfilling their tasks on time
- Losing data
- Final product does not meet the requirements
- Lack of motivation
- Distribution issues between the group members
- Team member leaves the project

Thank you!

Questions?