

# NOTICE!

- These materials are prepared only for the students enrolled in the course Distributed Software Development (DSD) at the Department of Computer Science and Engineering, University of Mälardalen, Västerås, Sweden and at the Faculty of Electrical Engineering and Computing, University of Zagreb, Croatia (year 2010/2011).
- For all other purposes, authors' written permission is needed!
- The purpose of these materials is to help students in better understanding of lectures in DSD and not their replacement!

# Distributed Software Development





# Release Candidate

Software Patterns Team

# Content

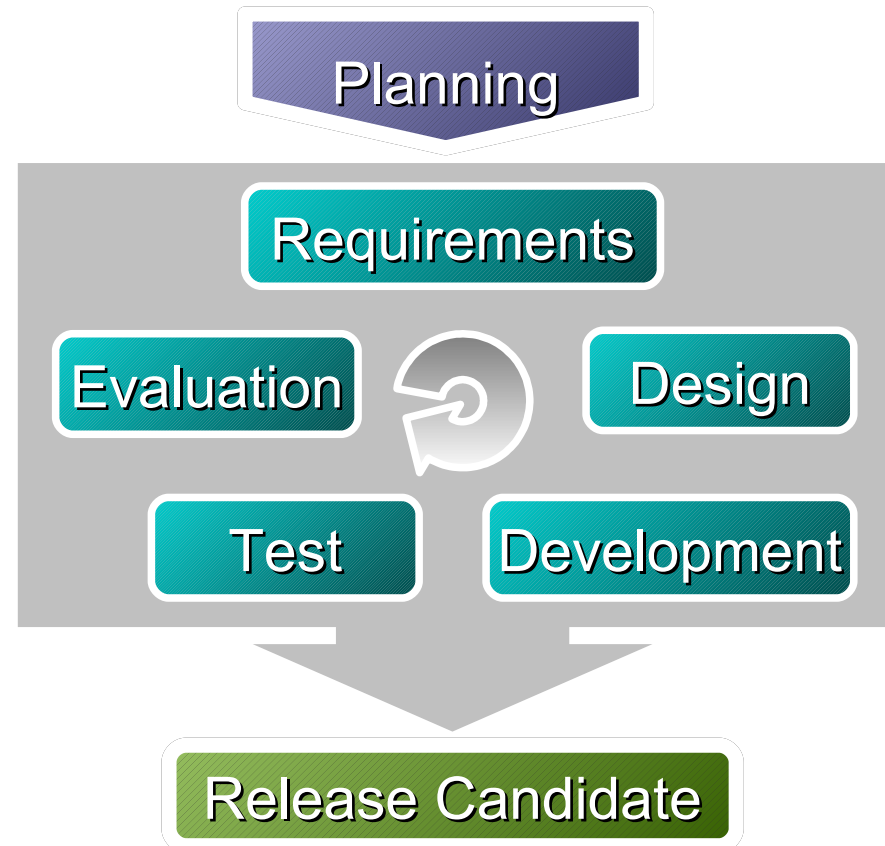
- Project Overview
- Process
- Important Events
- Project schedule
  - Current state
  - Advance since Beta prototype
- Integration process
- Experiences
- Demo
- What's Next

# Project Overview

- Design Patterns are descriptions of approved solutions to recurring software design problems
- UPB PG POSE is developing a tool
  - To formally specify software patterns
  - To view annotated patterns and recognize applied patterns in unknown code
- DSD project developing a tool
  - To describe software patterns
  - To manage, categorize, compare patterns and show relationships of patterns
  - This tool is an Eclipse plug-in

# Process (1)

- Revision of the requirements
- Iterative and incremental work
  - Improvements on existing functionalities
  - Adding new functionalities
- Testing
- Bug fixing



# Process (2)

- Results:
  - Implementation – code on SVN
  - Testing – Acceptance test plan document
  - Help – Online user documentation
  - Final requirements document

# Important Events

- Meeting with Supervisors in Paderborn
- Suggested:
  - Smaller improvements regarding user interaction and GUI behavior
  - Bigger improvements regarding editor functionality and view navigability
- No major modifications in specification and design



# Project Schedule

- Current State

General Project Status	Fulfillment of Next Milestone
On track	On track

- Deliverables Submitted on time

- Last week working Hours

Member	Hours
Marko	28
Jasenko	20
Ivica	29
Stipe	24
Shaibal	25
Antonio	23
Joanne	23

# Project Schedule (1)

- **Advanced since Beta**
  - Add view to compare patterns
  - Testing and bug fixing
  - User documentation
  - Code refactoring and reuse
  - EMF commands for Undo and Redo
  - Enabled automatic save functionality connected with EMF commands

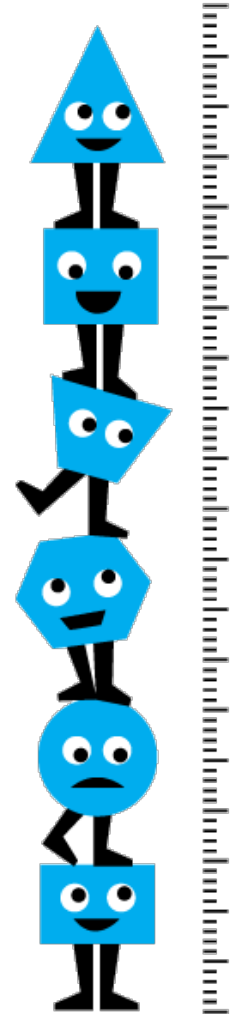
# Project Schedule (2)

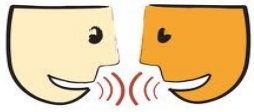


- Advanced since beta:
  - Improvements in user navigability between editor pages and views
  - Upgraded editor with functionality for importing figures
  - Enable the user to open \*.ctlg files out of workbench

# Experience

- Getting used to the work process
- Cultural difference:
  - Different variants of English language
- Problems :
  - Exams and assignments in other courses
  - Away or ill team members





# Communication

- Adobe Connect
- Skype
- Email
- Doodle
- Google Docs
- Redmine



# Integration process (1)

Use case	Current status
Create/Edit/Delete/Open pattern catalog (UC-1/2/3)	In progress
Create/Edit/Delete pattern (UC-4/5)	Finished
Assign category (UC-6)	Finished
Create/Edit/Delete pattern variant (UC-7)	Finished
Create/Edit/Delete/Assign pattern specification (UC-8/9/10)	In progress
Create/Edit/Delete category (UC-11)	Finished
Create/Delete keyword (UC-12)	Finished
Assign keyword (UC-13)	Finished

# Integration process (2)

Use case	Current status
Create/Edit/Delete pattern relation (UC-14)	Finished
Create/Edit/Delete description (UC-15)	Finished
Create/Edit/Delete description part (UC-16/17)	Finished
Search patterns (UC-18)	Finished
Compare patterns (UC-19)	Finished
Select descriptions/patterns (UC-20/21)	Finished
View pattern catalog (UC-22)	Finished
View pattern relations (UC-23)	Started

# Integration process (3)

- Integration with the tool from Paderborn
  - Open editor for creating specification and adding it to the pattern
  - Apply selected pattern to the UML editor from Paderborn





**RELEASE  
CANDIDATE**

# Next steps



- Pattern relations View
  - Displaying graphically the relations between a given pattern and its related patterns
- Pattern specifications
  - A link between our project and the project in Paderborn
- Final improvements
  - Interface,
  - Ergonomics,
  - Code refactoring,
  - Integration with Paderborn

# Next steps

- Final testing
- Final documentation
  - User and developer online help
  - Final project report document



# Q&A

