Main Project

Software Engineering II

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Product Owner and Scrum Master

Can be contacted at (almost) any time on Telegram
☐ Answers will come typically during "office hours"
PO (response to stories link)
☐ Clarification on stories
□ Discussion during planning
 Scrum master (response to key concepts reminder)
☐ How to work
□What can (not) be done

Daily Scrums

frequent m "dailv"

- Perform "daily" scrum
 - $\hfill\Box$ at beginning of new work session or
 - □ beginning of lecture whichever come first
 - ☐ Anytime you can meet together
- Record spent time on scrum meeting on YouTrack

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Time budget

- 8 person-hours per team member per week
- Sprint duration: 2 weeks
- Effort budget per sprint
 - □ 80 hours for 5-members teams
 - □ 96 hours for 6-members teams
 - □ 112 hours for 7-members teams

Estimation and planning

- All stories entered in a new project board
- One third of stories estimated
 - ☐ Story points
- Planning for the first sprint
 - □ Sprint started
 - ☐ Stories selected assigned to the sprint
 - ☐ All tasks estimated in hours
 - ☐ Keep in mind your time budget
- By Wednesday 8 November everything available on YouTrack



Share information on your repositories

On the shared Google sheet https://tinyurl.com/ynurvxdr

- ☐ By Wednesday 8 November columns YouTrack and Github must be filled
- ☐ You will insert data about Docker and Sonar Cloud after the respective workshops



Deadlines and requirements - part 1

- Wed Nov 8 Estimation of 1/3 of stories and first sprint planning
 - ☐ Youtrack and Github repositories shared on https://tinyurl.com/ynurvxdr
- Thu Nov 16 Demo 1
- Thu Nov 30 Demo 2 Release 1
 - ☐ The release consists in providing a Docker container with all the software
 - Plus instructions on how to start and use the system
 - Must contain the full deployment
 - ☐ External SAML2.0 authentication service
 - □ Docker repository shared on https://tinyurl.com/ynurvxdr
 - □ Docker container deployable by third parties



Deadlines and requirements - part 2

- Thu Dec 14 Demo 3
 - ☐ Sonar cloud repository shared on https://tinyurl.com/ynurvxdr
 - ☐ Sonar cloud analyses performed and track of TD management
 - ☐ Estimation of all stories
- Thu Jan 18 Demo 4 Release 2
 - ☐ Docker container deployable by third parties
 - ☐ Sonar cloud analyses performed and track of TD management
 - ☐ Teaser video on YouTube



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Thesis Management

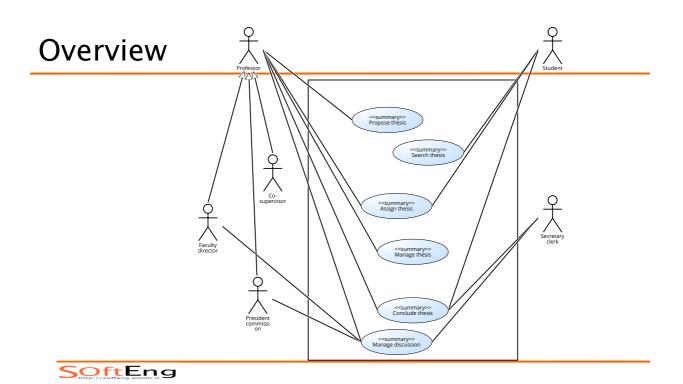
Application for managing thesis @ PoliTo
□ propose/search for available thesis works
assign and managing theses
□ organize discussion
□

SoftEng

Users

- Professor
- Co-supervisor
- Student
- Secretary clerk
- Faculty director
- President of commission

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Constraints

- System must be accessible through:
 - ☐ regular web browsers
 - □ smartphones
 - □tablets
- The system must be cross-platform

SOftEng

Test data

- You will have to create test data
- Teams can collaborate and share test data, if you wish
- Some details on next slides

Test data - proposal fields

- Title
- Supervisor
- Co-supervisors
- Keywords
- Type
- Groups

- Description
- Required knowledge
- Notes
- Expiration
- Level
- CdS /programmes

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Predefined DB tables: STUDENT

- ID
- SURNAME
- NAME
- GENDER
- NATIONALITY
- EMAIL
- COD_DEGREE
- ENROLLMENT_YEAR



Predefined DB tables:TEACHER

- ID
- SURNAME
- NAME
- EMAIL
- COD_GROUP
- COD_DEPARTMENT

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Predefined DB tables: DEGREE & CAREER

- DEGREE
 - □ COD_DEGREE
 - ☐ TITLE_DEGREE
- CAREER
 - ID
 - COD_COURSE
 - TITLE_COURSE
 - CFU
 - GRADE
 - DATE

Authentication

- Using email as user name and id as password.
- Must use an external SAML2.0 authentication service (a simple IDP must be provided by 1st release, i.e. demo 2)

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Virtual clock

- Since the system works over periods of time, a virtual clock must be available for testing purposes
 - □ Virtual clock must let the tester fast-forward time.

Product backlog

- Stories are already in priority order, the most valuable is the first one
- Import the provided file by following the You Track tutorials
 - ☐ From XLSS or Google Sheet:
 - https://www.jetbrains.com/help/youtrack/cloud/import-fromxlsx.html#setup-procedure
 - ☐ From csv file:
 - https://www.jetbrains.com/help/youtrack/cloud/import-fromcsv.html



Reward and impact

- Best three applications will be shown to the PoliTO IT department
- Possibility to continue the work with a scholarship at the PoliTO IT department

Checklist for project self-evaluation (1)

■ COORDINATION AND PLANNING □ Are Scrum Meetings performed regularly? □ Is workload among team members balanced? □ Is workload of members close to the expected one? □ Are user stories moved to sprint boards according to	
planning and actual development? Is task size consistent with guidelines?	
☐ Are tasks estimated?	
☐ Is time spent on tasks tracked?	
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Checklist for project self-evaluation (2)

☐ Are all sprint boards complete with planned tasks?
☐ Are there estimated and tracked technical tasks?
☐ Are retrospectives conducted collectively?
Are retrospectives filled with meaningful and precise data?
□ Do retrospectives generate concrete and verifiable improvements in next sprint?

Checklist for project self-evaluation (3)

 DEVELOPMENT AND QUALITY ASSURANCE
☐ Is the definition of done fully respected?
☐ Are all functionalities of a story working properly?
☐ Is priority of backlog respected?
\square Is there evidence of manual testing?
☐ Are test data for demo prepared in advance?
☐ Is technical debt management estimated?
Is technical debt management performed and tracked?
\square Is deployment of container tested on more than a pc?

Checklist for project self-evaluation (4)

Are the instructions to run your docker image present on
DockerHub or GitHub?"
Is documentation of the release complete (e.g., credentials, readme, etc.)?
Are GitHub issues promptly opened after giving feedback?
Is follow-up activity on a feedback GitHub issue properly tracked?