

SOFTWARE QUALITY

CPTS 583

Course project

Outline

- Overview
- Project team
- Expected work
- Evaluation
- Topics

Overview: project goal

- Apply and deepen understanding of the principles learned
 - Quality planning, modeling, measurement, improvement
- Practice software engineering skills
 - Development, quality assurance, quality management

Project team

- 3~4 students / team
- Set up repository
 - Github / bitbucket
- Everyone does the best
 - Contribute equally to the project

Expected work: overview

Milestone 1

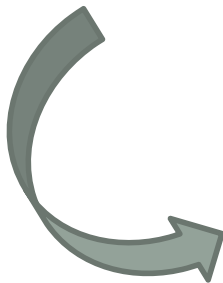
Nail down a project and its requirements, and Quality planning (goals, metrics, costs)

Milestone 2

Design and implement, and assess the quality of your projects as per the quality plan

Milestone 3

Assess the quality of the project developed by another team, as per their quality plan



Expected work: deliverables

- Deliverable I
 - Form your team
 - Choose topic
 - Elaborate requirements
 - Set quality goals
 - Define metrics and set measurement plan
 - Estimate costs

Expected work: deliverables

- Deliverable II
 - Develop the project
 - With documentation
 - Code, tests, and docs committed to repository
 - Assess the quality
 - Of the process followed
 - Of the product produced
 - Project report

Expected work: deliverables

- Deliverable III
 - Assess the quality of other's project
 - Quality assessment report

Project evaluation

- Grade as a team
 - Based on deliverables
- Equal initial member grade as per team grade
- Adjustment before finalization
 - By task assignment and completion rate in deliverables
 - By team peer evaluation at the end of project

Project topics

- Ten sample topics
 - Initial requirements are given
- Your own topics
 - Get approved with instructor first
 - With draft requirements

Project topics

- Practically useful
- Serving real clients
 - For example, your local community
 - Civic engagement highly encouraged