

CS5551 Advanced Software Engineering

Plan & Project Increment 1

Due: Feb. 17 (F), 2017, 11:59PM

Through the blackboard turnitin

The class project is to be based on *Agile* development techniques. In the first stage, each project group has proposed a rough idea of the project they will work on this semester. This can be refined throughout the semester. For each increment hereafter, each group will deliver a set of outcomes related to their project.

The tentative schedule for project development is as follows:

- ~~Project Proposal: Jan. 30 (M)~~
- Plan & Project Increment 1: Feb. 17 (F) ◀ This Deadline
- Project Increment 2: March 10 (F)
- Project Increment 3: April 7 (F)
- Project Increment 4: April 26 (W)
- Project Video: May 1 (M)
- Project Presentation/Demo: May 2 (T) & May 4(Th)
- Final Project Submission: May 5 (F)

Each project group submits their project plan and first increment report to the turnitin of the blackboard system and google project submission form (<https://goo.gl/forms/qXotidSziACjMyyI3>) before the submission deadline. Note that plagiarism is strongly prohibited. Check Originality Report for your submission.

This project guideline includes three parts:

- 1) Revised Project Proposal
- 2) Project plan.
- 3) First Increment Report

Some part of the specification may need to be done by using some tools (e.g., Visio, ZenHub, Adobe Brackets, Web Storm, and Android Studio) and the work plan and report should be generated/published project management tools. Each group must submit their project description to the blackboard system before the submission deadline.

I. Introduction

II. Project Goal and Objectives (revised)

- Overall goal
- Specific objectives (problem statement)
- Specific features
- Significance

III. Project Plan (using ZenHub Tool) – include screenshots to your report

- 1) Schedule for the four different increments (for each increment, do the following tasks)
 - Stories (Issues): Scenario & Use case specification
 - Service Design (detailed service design, unit test design)
 - Service Implementation (implementation and testing)
- 2) Project Timelines, Members, Task Responsibility
- 3) Burndown Chart

IV. First Increment Report

All the features we have developed for this increment, write a documentation describing the design, implementation, testing, and deployment (including the precise descriptions and screenshots).

- **Existing Services/REST API**
 - Report all existing services, widget, API or source code you used in your project.
- **Detail Design of Features (using tools)**
 - WireFrames and Mockups
 - Architecture diagram/Sequence diagram/Class diagram
 - Write User Stories /Use Case/Service description
- **Testing**
 - Unit testing
- **Implementation (using Android/Angular.js/Bootstrap)**
 - Mobile Client Implementation: Implementation of Mobile Apps
- **Deployment**
 - Deploy your mobile app to smartphones and describe it including the screenshots
 - Post your report to the Github Wiki
 - Post your first increment report and source code to your GitHub site and include the Wiki URL to the report.
- **Project Management:** describe it in terms of the first increment (with ZenHub)
 - Implementation status report
 - Work completed:
 - Description
 - Responsibility (Task, Person)
 - Time taken (#hours)
 - Contributions (members/percentage)
 - Work to be completed
 - Description
 - Responsibility (Task, Person)
 - Time to be taken (estimated #hours)
 - Issues/Concerns
- **Bibliography**

Late Policy

The late policy on assignments is 10% off the grade if late within one day, 20% off the grade for two days late, 30% off the grade for three days late. **Assignments that are submitted more than three days late will no longer be accepted.** Due to business trip or unforeseen medical, legal, family or other emergency, due date extension is warranted. But a valid formal document is required.