

# EECS 2311: Software Development Project

## Iteration 0: Initial Planning

**Soft Deadline:** Monday Jan 29, 2024

***Note 1:** You don't submit anything to eClass by this deadline. All deliverables are due together with your deliverable 1 due in the first week after reading week. However, you are supposed to finish ITR0 this week so you can kick start coding next week.*

***Note 2:** Make sure you push all deliverables of this iteration to your Github repo as soon as they are ready.*

***Note 3:** If your customer is not OK to have the video on GitHub you can keep that only for eClass submission together with the next deliverable.*

In iteration 0, you will describe your project topic and the proposed scope of your project. The description will be submitted in the form of a vision statement and user stories. At this point your work will only be submitted in the team's GitHub repo. There is no code implemented in this iteration.

Each group will submit one set of materials to GitHub: **a video file and a PDF file**, where the PDF document's front page states the team's number and the team members' names and the projects' name. The PDF file is called "Planning Document". You will update the planning document as soon as anything changes (or gets more concrete) during the term.

### **Project scope**

Please read the course syllabus and the slides from week 1, explaining the project. In short, the project is a standalone Java desktop app. It will have an interactive GUI and a DB. It can have limited access to Internet. There is no requirement on what framework or libraries you use. Note that the GUI and DB are not the emphasis of the course, so choose projects that do NOT need complex GUI or data. Make sure there are some unique/customized features in your app (selling point).

The project should at least have 3 high-level categories of features. Each category bundles multiple user stories together to bring some new marketable feature to customer. For instance, for inventory system, one category is basic operations and its user stories are login, add, remove, and search. You can have multiple levels of stories. For example, search item requires finding an item or a list of items, different viewing options, and a sort option, where each can be smaller user stories. You need to submit 3 or 4 high-level categories of stories for the whole project. For each iteration, make 5 or 6 user stories.

You can confirm the scope of the project with the course instructor if you are not sure.

## **Customer**

Each project should have at least one customer! You can either come up with the idea together with the customer or simulate the situation that you pitch the idea to the customer and try to get them on-board and get their feedback on priorities. Customer can be anybody! The only restriction is they should not have CS/SE background. Talk to your instructor if you are not sure about the customer.

## **Tasks and deliverables**

You must submit the followings in ITR0:

1. **A vision statement:** This one-page statement consists of a title, a summary sentence that describes the overall scope of your project, and several paragraphs containing more detail about your vision for the project. It should include a description of what the project is (including who the users are), why the project is valuable, and the success criteria that indicate the goal(s) of the project.
2. **Big user stories:** these user stories describe the main features of your software in very broad terms, for the entire project. You should create 3-4 big stories (categories of features) for the entire project (final release) and 5 to 6 user stories per iteration.
3. **Iteration 1 detailed user stories:** these are the user stories you plan to implement in the first iteration, in greater detail. You should create 5-6 user stories for the first iteration.
4. **Customer meeting's summary video:** Submit a video file (or a link to a video) that summarizes your meeting with the customer. In the meeting you discuss the vision and the big user stories with the customer and come to a compromise based on your budget (class project's time) and the preferences of the customer. The submitted video should be maximum 5 minutes. It can be either a combination of different footages of your meeting and your wrap up talk at the end or the last five minutes of your meeting where you and your customer summarize the meeting together. You don't need to have all the team members in the video/meeting.

The vision statement should be one page long. Sample vision statements, for two systems are on eClass.

The user stories should be written on 3"x5" index cards. Each card should have a descriptive title, and greater detail below. For the big stories, the detail will be brief; for the user stories, the detail should be more precise and may include unanswered questions. Cards should also include a priority measurement (high, medium, or low) and a time estimate, in story points (ideal development days). Note that there are typically 3 weeks between each iteration. See the Syllabus for exact due dates.

During your project meetings, you may use the physical index cards, but submit an electronic version to GitHub. Put each 2 or 3 user story index cards in one page and submit

one PDF file containing the vision and all user stories (big and detailed ones), explicitly mentioning which ones are for Iteration 1. If you use any tool for planning, make sure all the above is provided in your submitted artifacts.

**Deliverables summary:**

- One PDF including vision, stories, and the planning map (mapping of stories to each iteration and stories to team members for iteration 1)
- Video file or a link to the video

**Evaluation**

Your work for this iteration will be marked together with deliverable 1.  
The rubric will be posted together with the deliverable 1's rubric.