CSC 648/848 SFSU 2022 Milestone 3

Review of functionality, UI, SW and planning for final product delivery

Includes Checklist for instructors and teams (Appendix I and II)

Objective and Overview

The objectives of Milestone 3 are to:

- **Define exactly what product you are delivering.** We will come to agreement on what the final application is going to look like in terms of functionality, especially which functional requirements are priority 1 (P1). This will be your commitment to the instructor/client to delivery by M5.
- **Ensure software development is on track.** We will verify that the all the SW components are installed and integrated and that most major functions work.
- **Provide feedback on all major UI screens and functionality**. This will be done through a review of the so-called horizontal or UI prototype.
- **Check software architecture** by reviewing the database and overall design at a high level
- **Check all algorithms** like search or machine learning component, whatever major algorithm in your application will be checked.
- **Identify and address all technical risks**
- **Ensure effective teamwork** by verifying that all team members have started implementation of their portion of the project.
- **Ensure software development is effective** by verifying your team's collaboration practices based on github branch policy and github review policy.

Milestone 3 will be in the form of two-part review:

1. **Part 1 – each team presents to Prof. Song: Review of functionality, UI and general project status will be done during the meeting of ~12 minutes. – on deadline during the class. In order to be efficient, teams must observe strict schedule and come fully prepared. For this, please prepare Appendix I (item 2,3) before the M3 demo. And please update Appendix I (item 1) after the meeting. The Appendix 1 should be submitted to your M3 folder for review (Due : on the next day of M3 demo).**
2. **Part 2: SW review (in-emails): github usage, branch organization, code review practices by TA after Part 1 review.**

M3 will be graded, and the feedback will be given if any. The teams will meet to analyze feedback and revise the design and implementation accordingly as well as definition of P1 features. After M3, the teams will have "feature freeze" e.g. the teams must focus on intense implementation of P1 features.

Part 1 Review – Functionality and UI feedback and general project status

> **IMPORTANT!**
>
> Appoint a "scribe" e.g. person to collect meeting feedback and main points and action items (use Appendix I as a template)

What to bring to the meeting

Each team **must** prepare your ***Product prototype*** to the Milestone 3 Part 1 meeting:

- ***Product prototype*** has limited functionality
- You have to demonstrate the 5~6 key P1 functionalities for your product prototype for the meeting. For the key functionalities, you should connect back-end and front-end.
- The product prototype should provide UI implementation of 5~6 key P1 functionality.
    - The UI implementation should follow UX flow in M2.
- The current version of your SW should run on deployment server .

On the part1 meeting, the instructor will let each team to demonstrate major functionalities on real-time using your SW and will give you feedback. **You are requested to appoint a scribe who collects the feedback. Use Appendix I as a template to record feedback.**

After the M3 Part 1 meeting (recommended to do it immediately after the meeting): Team has to meet, analyze meeting feedback and revise M3 doc (Appendix 1), design and implementation as necessary. Team also must finalize P1 set of features. The instructor feedback as well as finalized P1 list MUST be written down using template as in Appendix I. You will submit it with M3 folder, by the next day of M3 part 1 meeting.

Part 2 review: SW review – to be done by TA after Part I review, by accessing your github repo. See Appendix II for details

Appendix I – Rubrics and checklist for Part 1 Milestone 3 review: Project Status and UI Review.

Section: 1 Team: 6 Date: 11/2/2023
Number of students present: Mekonnen Tesfazien, Hann Zhou, Ahmar Huda, Kurtis, Ethan, David Lemming

1. *UI and functionality feedback (P1 functions only)*

During the meeting, students will demonstrate to run your SW from deployment server**:**
- Test 5~6 P1 features
- Show UI and usability: adherence to the feedback on UI mockup at M2, layout, flow, clarity, functionality etc.

Instructor will
- Check functionality and record issues/observe bugs
- Share comments on key UI and functional implementation
- Verify enough web pages are implemented and connected
- Verify Performance of web page

Students must record meeting summary (use a scribe and Appendix I as template. Keep tracks of institutor's comments). Then the team should meet to analyze feedback, prioritize and revise and plan to implement changes accordingly**. Also, immediately after the review the team must finalize P1 set of features and focus only on those from then on.**

- Instructor's comments on UI/functionality for your demo (should be during the class of M3 demo)

  -Add any missing skills from compatible score section in the form of a checklist
  -find another AI API if chatGPT gave us too long of a response

- Your Plan for the comments

  Implement the check boxes for missing skills to add to the applicant's resume, but keep the same chatGPT API.

2. *List of P1 features committed for delivery– write down the items before the demo and verbally explain it during the meeting if time is allowed*

Once you commit at M3, you can not change during the rest of the semester. You should implement by M5.

FigmaUXflow:
https://www.figma.com/file/HvUersFemiV416kWPgrqmn/Job-Details-%26-GPT-feedback-UX?type=design&node-id=0%3A1&mode=design&t=qkcNQpNgyEq0vkVe-1

- **User Save Job Listing - bookmark a job to apply to later**
- **User Delete Job Listing - remove a bookmarked job**
- **User resume builder - user enters information and creates resume**
- **User add missing Skills(in compatible score page) - user can add missing skills to their resume when judging compatibility with a job**
- **User/Job compatibility using AI - use AI to show what the applicant is missing and what skills match the job description**

3. *Project status – write down the items before the demo and verbally explain it during the meeting if time is allowed*

a) *Risks*: all actual (not hypothetical) risks (schedule, team work, technical, skills etc.) should be identified and either resolved or plans should be made to resolve them.

Schedule Risk: With around a month left, if we run into any technical issues it may delay our plan and result in us not finishing all functionality

Solution: Communicate problems early and plan to finish functions days before deadline

Technical Risk: None of us have any experience with prompt engineering, so this may delay or affect the quality of the response from AI and overall delay production

Solution: Research examples and play around with AI in our free time to become familiar with designing a prompt and getting the expected response

Appendix II– Rubrics and checklist for Part 2 Milestone 3 review: SW Review (to be done off-line by TA after Part 1 review)

Section: 1 Team: 6 Date:

Instructor/TA to Check and comment below:

- Git/Github organization (e.g. organization of branches)
    - To setup Dev branch and Feature branches are strongly recommended.
    - Grading check points : Dev and feature branches are properly setup and used.

- Git/Gith, git hub usage: code review practices (to see if the review comments are proper and enough)
    - Grading check points :
        - how many code reviews are being done
        - what are check items to review codes

- Frameworks (back end front end) deployed correctly