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# CSC 648/848 SFSU 2020 Milestone 3

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

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

**Oct/27/20**

**Due: Nov 16th**

## 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 items are priority 1 (P1). This will be your commitment to the instructor/client.
* **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. The software you present must be developed in the github with proper branch and review policy, and deployed on the final deployment platform. Github usage (branch policy, review policy) will also be importantly checked.
* **Provide feedback on all major UI screens and functionality**. This will be done through a review of the so-called ***horizontal or UI prototype*** (see below).
* **Check software architecture** by reviewing your code, the database and overall design at a high level
* **Check all algorithms** like video play (fast/slow play), line drawing on the video, 2D pose estimation etc.
* **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, coding style, documentation, software engineering practices and usage of team development tools

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

1. **Part 1 – each team meets with Prof. Song: Review of functionality, UI and general project status will be done during the meeting of ~15 minutes. – on Nov 17 during the class (via zoom break-out meeting). In order to be efficient, teams must observe strict schedule and come fully prepared. Checklist for Part 1 review is in Appendix I**
2. **Part 2: SW review (in-emails): Architecture, Code, github usage, team account, database and general SW and code review will be done by instructor or TA on Nov 17th after Part 1 review.**

1. **After Milestone 3, the teams will meet to analyze feedback and revise design and implementation accordingly, as well as to fix on P1 set of features. After this the teams will have “feature freeze” e.g. the teams must focus on intense implementation of only P1 features.**

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

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| --- |
| **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** bring the following to the Milestone 3 Part 1 meeting:

* 1. *Hard copies of all* ***current*** *(the ones to be shown at the meeting) website UI screens (horizontal prototype), one screen per page.*  If there is a popup or modal window, you must also print each popup or window on a separate page. This means every page in the current horizontal prototype is to be printed out. This will be used to record UI feedback (e.g. write on it) during the review of “horizontal prototype”
  2. Notebook to run the below:
* ***Product prototype*** with limited functionality: Access to the current version of your SW (e.g. extension of vertical prototype) running on deployment server . Functionality you must have is as follows: actual home page which contains a list of patient profiles, a page of exercise assignment, a page to check patients’ progress and their uploaded videos, Chat page and the dashboard page for PT’s activities. These pages should be integrated with back end.
* ***Horizontal prototype*** with all UI pages of P1 functionality coded in your chosen framework but NOT necessarily connected to the backend (you can have a placeholder for the content). This will be used to simulate storyboards workflow and to give UI feedback. (Note: your hard copy UI screens must correspond to these coded pages so that accurate feedback can be recorded)
* Access to github, database etc. for quick review

On the part1 meeting, the instructor will let each team to exercise major use cases 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 as well as hard copy UI screen shots with instructor’s feedback on it**

**After the M3 Part 1 meeting (recommended to do it immediately after the meeting)**: Team has to meet, analyze meeting feedback and revise design and implementation as necessary. Team also must finalize P1 set of features. This feedback as well as finalized P1 list MUST be recorded using template as in Appendix I. You will submit it with M5 folder. You must use marked UI screens with feedback as a guidance to revise UI designs.

**Part 2 review: SW review – to be done by instructor or TA after Part I review by accessing your code remotely. See Appendix II for details**

**Appendix I – Rubrics and checklist for Part 1 Milestone 3 review: Project Status and UI Review (to be done by the instructor during a 15 minute meeting for each team). Use modification of this for M3 summary**

**Section: Team: Date:**

**Number of students present:**

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

Before the meeting, **please share your server URL** so that instructor and TA could check your web page. During the meeting, instructor will test to run your SW from deployment server**:**

- Test main use cases

- Check functionality and record issues/observe bugs

- Check UI and usability for: adherence to the feedback on UI mockup at M2, layout, flow, clarity, functionality vs. use cases etc.

- Share comments on hard copy of UI

- Verify Performance in page/image rendering, display the list

- Verify enough WWW pages are implemented and connected

**Students must:** Submit their URL in prior to Part 1 meeting, Record meeting summary (use a scribe and Appendix I as template, as well as hard copies of UI screen shots with institutor’s comments). Then the team should meet (preferably immediately after the review) 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 will check functionality and pages/use cases as below:**

* Home page
* List of patients
* Exercise Assignment Page (to see if PT can easily assign the exercise plan to patients, to maximize their productivity)
* Patient’s progress report ( to see if PT can efficiently view patients’ progress report (including their videos) by manipulating the video (fast/slow play, draw the line etc)).
* Asynchronous Chat between PT and patients
* Dashboard to display the PT’s activities for each patient

1. ***Brief review of coding, github, database etc.***

Be ready to demonstrate examples of code to show that your coding style and documentation is enough. No need to prepare documentation. If necessary, just show the codes from the github, regarding branch organization, protection of branch, code review practices (using pull requests).

Also be ready to show DB tables and data in them using the tool of your choice.

1. ***Project status – be ready to verbally explain status of the issues below***
   1. *Teamwork*: is the team working out, any related issues. (important)
      1. Scrum meeting minutes so far, (You can show the communication logs from discord, slack or any tools. Recommended to include attendance of team members)
      2. Team spirit boost up activity (in the past or in the future)

It is important for all members to participate in most of activities (80-90%).

* 1. *Risks*: all actual (not hypothetical) risks (schedule, technical, skills etc.) should be identified and either resolved or plans should be made to resolve them asap.
  2. *Digital content* (e.g. images, video) please provide information on status and availability, chosen formats, resolution etc.
  3. Other

1. ***List of P1 features committed for delivery***

**Please show the list of P1 features you are going to commit for the project. Once you set these at M3, you can not change during the rest of the semester.**

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

**Section: Team: Date:**

**Instructor/TA to Check and comment below:**

* Git/Github organization (e.g. organization of branches and review policies based on pull requests)
* Git/Gith, git hub usage: code review practices (to see if the review comments are proper)
* Code documented (header in code) with good coding style
* Frameworks (back end front end) deployed correctly
* Database organization (tables, naming…)
* Efficiency (proper use of image thumbnails, efficient search etc.)
* Other

**Those comments will be shared on the week of Nov 17th in emails.**