

CIS*4030 W24: Milestone 1

5-7 minute presentation

1. Team Number and Team Member names

Group 9 - Elizabeth & Salman

2. **What We Will Build & Why We Will Build It:** You will need to introduce and describe your Idea for your project as well as provide motivation for why you want to build it.

Grade tracker app. Throughout our experiences as post-secondary students, there are no quality products that we have been able to find to manage all grades in one place. Most individuals we know often have to calculate by hand / have homemade excel documents. The online applications (such as the UoG library grade tracker) do not store information so data has to be re-entered each time you navigate to the webpage.

Questions to consider are:

- a. 'How do you imagine people will use your app?'

The primary target user base for our app are students who wish to organise and keep track of their grades throughout their university or highschool career. Students will likely use this app by adding a new semester session in the app at the beginning of every semester, and adding their courses to them. After which they would add different courses to their respective semesters, their due date and eventually the grades they received in them. Additionally, the most helpful feature of the app would be the ability to calculate i) Your current average ii) The average the student needs to finish with a certain course average ii) What their final grade will be if they maintain a certain average.

- b. 'What problem(s) are you solving with your app?'

Would be creating a free and easy to use application that students could use to manage grades across semesters and courses in one location. The application will also give easy access to current average information and grade/due date tracking questions that students often have to manage/calculate manually.

3. **Why Our App is Special:** You will need to compare what you plan to build with other existing apps and products. Consider how it is similar to and different from existing apps and products. What makes your app unique? Why is now the right time to work on this app (i.e., why would releasing it at this current time be beneficial)? What do other apps not do or do incorrectly, that we will do with our app?

- Free
- Unlimited number of courses
- Simple and intuitive UI experience
- Due date tracking support included
- Able to track by semester and individual courses

- No apps currently meeting the above specs. , and many students are creating their own tools or calculating manually. Multiple platforms used within the same educational institution (ex. Courouselink, moodle, etc)

4. **Interface Design:** Show some initial designs for your application you can present these in whatever form you believe can best show off your interface (Note: you will not receive extra marks for higher-fidelity interfaces). Please describe your interface components, functionality, and navigation (describe how pages relate to one another).

5. **Project Plan:** This section will set out your plan of attack.

a. What priority do different tasks have?

(Will expand on for the presentation)

- i. Priority 1: Implementing grade calculator feature: Add assessments, their grades, weightage and perform useful calculations on them.
- ii. Priority 2: Categorization feature such that grades belong to certain courses, and courses belong to certain semesters.
- iii. Priority 3: Enhance UI

b. What is your timeline for designing and implementing different tasks?

i. By Milestone 2:

- 1. Have a functioning course page, where users can add grades for courses and perform various calculations on them.
- 2. Have basic layering implemented. Namely, nesting the courses within semesters
- 3. Have database running and integrated.

ii. By Milestone 3:

- 1. Focus on aesthetics.
- 2. Implement “good-to-have” functionality. Such as being able to convert between various grading scales.
- 3. Add different display options such as night-mode.

c. Who will do what?

- i. For each feature, we will give it a due date, divide it into subtasks and aim to get it done by the date.

d. What challenges do you currently anticipate?

- i. Getting used to best-practices for mobile development.
- ii. Merge conflicts with Git.

e. How will you ensure that all group members can equally contribute throughout the rest of the semester?

- i. Assign weighting to tasks in issue boards and monitor that both parties contributing.

(create issue boards for each milestone in git)

Anticipated Order of Implementation: black: M2, red: M3

- **Main screen:**
 - Main screen components (basic screen setup)
 - Create/delete semesters to main page
 - Add courses to semesters on main page and display when drop down selected
 - Setup firebase to store semester info
 - Add edit functionality to main screen
 - Navigate to course screens on button click
 - Computations for semester average(grade-to-date)
 - Toggle grade view (grade-to-date / total grade)
 - Add drawer menus
 - Animations / cleaning / optimizations
- **Course screen:**
 - Main course screen components (basic screen setup)
 - Return to main screen on click
 - Add/delete assessments within to course components
 - Update firebase to include course info
 - Computations for course grade tracking (grade to date)
 - Computations for course grade tracking (total semester grade)
 - Toggle between grade view modes
 - "What if..." screen components
 - "What if..." calculations
 - Animations / cleaning / optimizations
- **Add settings screen**
 - Connect to drawer
 - Change grade display mode (4.0/ABC/%)
 - Light/dark mode
 - Animations / cleaning / optimizations

	<u>Week 1</u>	<u>Week 2</u>	<u>Week 3</u>	<u>Week 4</u>	<u>Week 5</u>	<u>Week 6</u>	<u>Week 7</u>	<u>Week 8</u>
Mainscreen setups for semester page								
Add/Remove semesters on main screen								
Add/Remove courses to semesters through dropdown menu								
Add/Remove assessments to courses on course mainscreen								
Perform and display computation for course grades on course screen								
Move 'add/remove' functionality to edit buttons for main and course screens								
Setup database integration to store semester info								
Mainscreen setup for courses page								
