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**Weekly Deliverables**

Baylor University

Software Engineering II Class Project

Spring 2024

**Deliverable 0**

**Title:** Project Setup

**Due Week Of:** January 28, 2024

**Description:** Each team member should have a Slack and GitHub account. Each team member needs to have joined Slack using the link provided by the professor. Each team member also needs to have submitted their GitHub username to the Google form provided by the professor or by sending it directly to their team’s channel in Slack. You should *git clone* the project which already exists in the repository down to your local machine so you can import it into your IDE and get it up and running using the README provided in the project repository. Note: the project only needs to be set up to run locally, you don’t need to worry about setting up GCP yet.

**Important to Note:** During the kick-off, we will walk through the template project, and it will be critical to familiarize yourself with the Spring/React basics covered in the tutorial assignments (at least) beforehand so you can follow along and ask appropriate questions.

**Deliverable 1**

**Title:** Entity Relationship Diagram (ERD)

**Due Week Of:** February 2, 2024

**Description:** Demonstrate the way you’ve planned and designed your database tables. Your team will describe the decisions you made before implementation and show your database containing the tables and their foreign key relationships. Your database tables can of course change over the course of the semester as needed; we just want to see that you have accounted for all of the project requirements at the database level ahead of time.

**Important to Note:** Milestone 1 is due the week after this deliverable.

**Deliverable 2**

**Title:** User Account Creation and Login

**Due Week Of:** February 18, 2024

**Description:** Demonstrate that a user of your application can create an account and login using that account. Something on the frontend should show that you are logged in as the corresponding user (e.g., show off your profile page, etc.)

**Deliverable 3**

**Title:** End-to-End (E2E) Service Demo

**Due Week Of:** February 25, 2024

**Description:** For this deliverable your team will show end-to-end communication in the application. User actions in the UI will make requests to the API, which will request data from the MySQL database, and the response will be passed all the way back to the browser where you can display it in Reach on the frontend. Demonstrate to the mentors that some action on your app causes a database add/change/delete and that you can see the results of that change afterwards in the app. Your team can show of any request of this sort, but one example could be showing that you can add/remove areas of study from a user and the list of “current” areas of study is reflected in the frontend after the change.

**Important to Note:** Milestone 2 is due the week after this deliverable and requires a large number of requests to be working, so getting this deliverable done early prevents your team from having to start and finish all the pages for the milestone in one week.

**Deliverable 4**

**Title:** Recommendations

**Due Week Of:** March 24, 2024

**Description:** Show your progress with the recommendations system in the app. A student should be able to get their recommended study partners (other students or tutors). A student should also be able to get their recommended study meetups. A student should be able to get their recommendations based on a set of criteria, such as subjects/courses, study methods, time of day, location, ratings, previous history, etc.

This is the algorithmic component of the application. It is important to think of the criteria as preferences rather than filters. For example, if I set my subject preference to “biology”, the app still might recommend me other students with different science courses selected depending on the population of the app. Similarly, if I set my time of day preferences to “evening”, the app still might recommend me other meetups earlier in the day depending on the availability of meetups and other factors. This goes for all of the various criteria.

You might even want to consider allowing a student’s connections, such as previous study partners or meetup history, to influence the recommendations generated by the system.

**Deliverable 5**

**Title:** Notifications

**Due Week Of:** March 31, 2024

**Description:** Show the notification system you have built for the application. In particular, this involves showing in-app notifications if this is the route your team chose. Users should be able to notify other students and tutors that they want to become “study buddies” with them and then those users should be able to view those messages in the app, mark them as read, or delete them. Additionally, the app should notify the user if there are any unread messages. In addition, the app should send a notification to students for their upcoming meetups.

**Important to Note:** Milestone 3 is due the week after this deliverable and requires your product to be roughly feature-complete (without polish), so getting this deliverable done early will allow your team to have time to finish the various other requirements of Milestone 3.

**Deliverable 6**

**Title:** UI Hardening

**Due Week Of:** April 14, 2024

**Description:** This is the last deliverable expected for the project until your final presentations. As the application nears completion, we want to see how you’ve changed and finalized your UI in preparation for the final presentation. Specifically, we want to see how your team has considered accessibility (making your app easy to use) and user experience (making the processes in your app be streamlined and intuitive) as part of your UI designs.