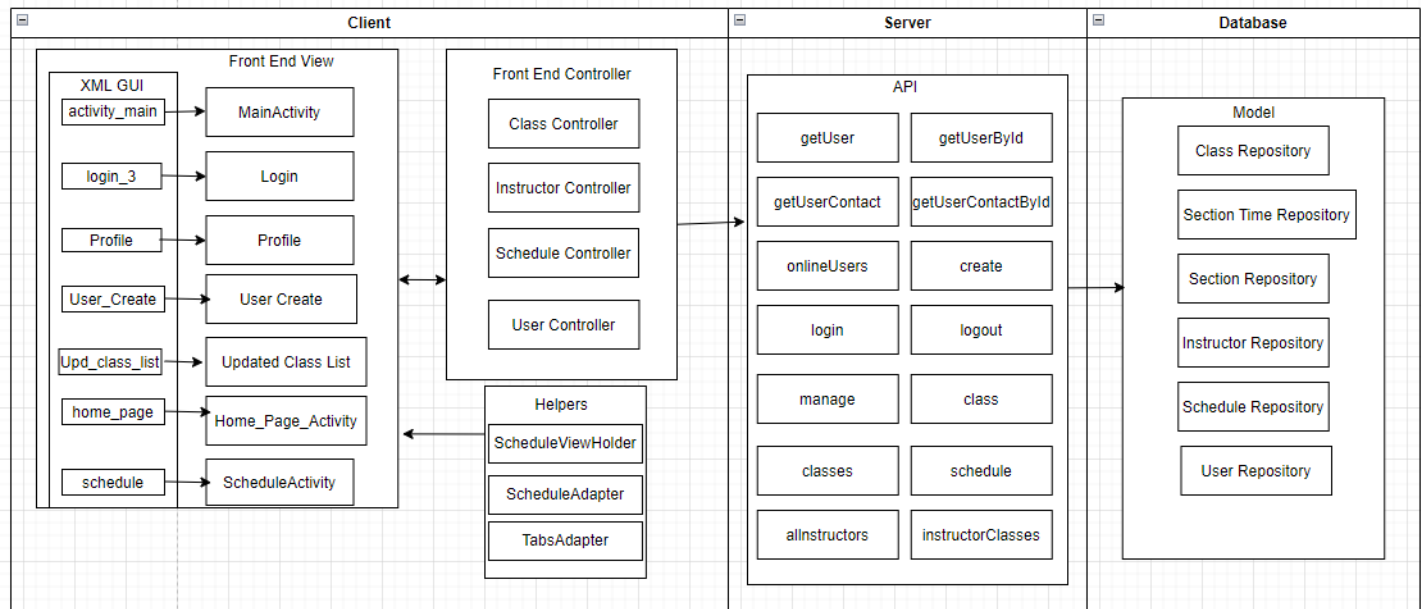

Design Document for **CySchedule**

Group **2_HB_4**

Maxton Bromet: 33% contribution

Evan Nicely: 33% contribution

Samuel Rettig: 33% contribution



Client:

On our client side, everything starts with the Front end view. This is the aspect that the User sees upon using our application. Specifically, we use the XML GUIs in order to format the view according to our liking. The data shown to the user is controlled by the Front end controller, which acts as a way for us to send data to the server and database. Furthermore, we bolster the front end view by having helpers, such as the ScheduleViewHolder, due to the extreme complexity inherent in the screen itself. This combination effectively allows for seamless data transfer between the database, server, and view that the user sees in real time.

Server:

On our back-end is an extensive list of calls to the database. For example, `getUserByID` allows us to get a user by their unique ID (stored in the database). Similar examples can be held for login and create, which respectively allow for us to verify if a user exists, as well as add to the database. This is done by a combination of get and post methods. This covers nearly every aspect of the calls to the database, giving us a clean and easy way to update the on-screen information. We use Rest Api calls in our database.

Database:

The database is the back-bone of our project. It holds all of the data that we depend upon in order to show classes, create users, give users the ability to log in, and more. For example, the Section repository breaks down classes into specific sections that the user would be able to choose. This is further broken down into times per section, represented by the Section Time Repository. Without this aspect, we could not effectively show accurate data to users.

