Tutor by Request

Progress Report - Iteration 1

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Team members:

Azzed Khursheed

Edwin Solache

Evan Winckler

Harrison Bell

Ryan Fries

1. **What were the main difficulties so far?**
   1. **Overall:**

We’re still finding that our lack of experience with creating apps and with Android Studio as a whole has been a hindrance. Despite this we’ve managed to learn quite a lot and overcome many of the obstacles that we’ve encountered. Another major difficulty has been in setting up and using tests. Thus far, most of the testing examples that we’ve seen have been for testing the implementation of an activity and not fragments. Because of this challenge, we’ve been forced to do our testing manually thus far.

* 1. **Frontend:**

We had to change the layout and structure of the program for this first iteration because the format that we wanted to use was causing us a lot of issues with navigation. We still want and intend to make some changes to the layout of the program so that the app overall is more intuitive and looks better, however in order to make something that functions first, we decided to simplify everything. This allows us to get the underlying structure polished before “adding a new coat of paint.”

* 1. **Backend:**

Currently our main difficulties with the backend stem from not being allowed to use the UW database. This means that we’ve had to set up our own. Evan was able to get us free access to a server to use however thus far setting up a remote database has proven to be quite difficult. In order to be able to move forward, we’re currently creating the database locally on the phone emulator of Android Studio and populating it in the main activity of the app.

1. **Were there any features you did not implement as planned, and why? Are you pushing some feature to later iterations, and if so, why?**

We’ve decided to either push or completely remove the reminders section. We realized that it’s not the most necessary feature and may not be necessary at all since the same information can be gotten through the My Sessions section.

Although we are still implementing the Get A Tutor feature for students, we’ve decided create a simple list view of all the available tutors and sessions instead of having a calendar or grid layout for it. The reason for this is simply due to time constraints. Having everything in a list view gives users the same functionality, it’s just maybe not as convenient and maybe doesn’t look as good as a calendar or grid view would.

1. **What tests did you prepare for this iteration, and what are they covering? Did the tests you wrote deviate from your plan? What features are you not testing yet? Did you use any test frameworks, such as JUnit, the Android Monkey, Selenium, etc.?**

The central focus for the testing in this iteration was unit tests based on the database. We wanted to ensure that the local database was fully operational. These tests were designed to ensure that the database access methods were functioning to specifications. For each of the necessary tables within the database we made sure to create unit tests as we updated the database to test basic functionality. We also tested in a separate branch from the master because there seemed to be conflicts creating errors with the main branch. Testing for the UI deviated slightly from the original plan. We were able to construct some simulated tests for the individual fragments, but could not manage to create tests that tested navigation between fragments and activities. We also have not created intense automated tests with simulated user input. This meant much more manual testing was required. The manual testing was mostly done using the debugger native to Android Studio and the automatic testing on the database was accomplished using JUnit.