

CSCI 3308 Group Project

Milestone I - Proposal

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1 Description

We will be making an iOS application that provides a robust practice testing framework to help students review for exams. Ideally, the students would be able to pick the subject and topics they are looking to study, a number of questions or amount of time theyd like like the test to be, and would get a randomized practice test with relevant questions.

We will keep a database of questions for subjects and topics that we want to support—for the demo application, well be using the Physics GRE test as the subject. When supplying a practice test for the user, we will randomly pick questions from our database. The user will have a number of customization options including time limit, number of questions, and possibly whether or not answers are provided on the fly.

In effect, this project will allow students to take however many practice tests they want on a certain subject or topic. Research shows that practice tests are a great method of studying in a wide variety of subjects, so providing a framework to take the burden of finding practice tests off of the students.

2 Vision Statement

Provide an organized testing framework to help students review.

3 Motivation

When Pengqi reviewed for the GRE Physics exam, he found that there isnt any good and convenient app that helps student review for the exam. Pengqi figured that having an app that would help provide practice questions as well as feedback would have been extremely helpful in his studying process.

4 Risks and Mitigation Plan

- **Risks**

1. Not everyone in the group has a Mac
2. Widely varied schedules make communication difficult
3. Varied skillsets
4. Difficulty displaying certain information & notation (e.g. integrals, summations, etc)

- **Risks Mitigation Plan**

1. Use school computers, other group members computers, or a virtual machines to let everyone have access to Xcode.
2. Use Slack, SMS, and phone calls to keep everyone in the loop Make sure everyone is in the habit of checking Slack.
3. Put thought into task delegation.
4. Use images/screenshots, etc to handle complicated notation.

5 Version Control

Github

6 Development Method

Agile/Scrum with Kanban

7 Collaboration Tool

Were using Slack for general communication, and Google Drive for file sharing.