

On the Exam Line

Project Charter

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Problem Statement:

When trying to make a custom exam, the first instinct is to make it on paper or word documents. Then it gets printed out, solved by the test taker, graded by the examiner, and the grades are delivered to the respective people. This procedure is widely used, but is time-consuming to grade and return results to the students. In addition, it's possible for the physical copies to be compromised, whether they are lost or damaged.

We want to solve this issue by creating a website which will be accessible from any location, but restricted to authorized users only. The tests will be created on the website and stored in a database. All questions, options (if multiple choice), and answers will be stored. It will be administered online as well. Instant grading of multiple choice questions. The test takers will just be able to log into their account and see their results. This should effectively reduce the amount of time spent on each test by testers. Our minimum viable product will have only one administrator, or teacher account, and make sure all the features are working for one teacher account. If time allows, we will extend the solution to accommodate for multiple teacher accounts.

Project Objectives:

1. Administrator will be able to create user accounts through which the user will be able to take tests and see their results. Users will not be able to see any other users and any information that does not pertain to themselves.
2. Administrator will be able to create custom exams with their desired number of multiple choice questions, essay questions, and time limit. The multiple-choice questions will have the questions, options for each question, and the correct answer for each question entered by the administrator. The essay questions will have a question and an answer key against which the user's answer will be graded.
3. The administrator will be able to modify attributes of exams which have been already created. They will be able to change the name of the exam, the time limit of the exam, number of questions, individual questions, options and answer keys.

4. The multiple-choice questions will be graded instantly after a user has completed a test.
5. The administrator will be able to grade the essay questions after a user is done taking a test.
6. The administrator will be able to see the grades of all the users, and see which user answered what to each multiple-choice question.
7. The user will be able to log in with the credentials provided, take the exam corresponding to the allowed chapters, and see the results after either partial or complete grading.

Stakeholders:

- a. Developers: Arka Acharya, Joyce Kao, Shivaganesh Balasundaram, and Gunjan Gauri
- b. Users:
 1. The people who will be creating and administering the tests.
 2. The people who will be taking the tests.
- c. Project Manager: Gunjan Gauri
- d. Project Owner: Arka Acharya, Joyce Kao, Shivaganesh Balasundaram, and Gunjan Gauri

Deliverables:

1. The website that will be delivered will be an efficient (to the best of the developer's ability) examination application with a user-friendly environment. It will be browser and platform independent.
2. This website will work on all web browsers running on any operating system.