

CS 242 Final Project Proposal

QuizHelper

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1. Abstract

1.1. Project Purpose

What is the purpose of this project? What problems do you want to solve?

To gain more experience in web development and Django.

What I am going to do is to provide a website that helps students better prepare for quizzes. Just like Quizlet <https://quizlet.com/>

1.2. Background/Motivation

Why are you interested in doing this project? Have you worked on something similar before?

I am interested in it because I myself use such kind of website often and find it useful. In addition, I want to learn more about Django via developing such website.

2. Technical Specifications

2.1. **Platform:** (i.e. Website, iOS App, Arduino hack) Website

2.2. **Programming Languages:** (i.e. PHP, Python, Lisp) Python, Javascript

2.3. **Stylistic Conventions:** (i.e. commenting, naming conventions, camelCase)

Javascript: <https://github.com/airbnb/javascript>

Python: <https://www.python.org/dev/peps/pep0008/>

2.4. **SDK:** (i.e. Pebble SDK, LAMP Stack, Android SDK)

Django framework and JQuery

2.5. **IDE:** (i.e. Eclipse, Visual Studio) PyCharm

2.6. **Tools/Interfaces:** (i.e. Android phone, Bluetooth tag, Google Chrome) Google Chrome

2.7. **Target Audience:** (i.e. Botanists, iPhone users) Students who take quizzes

3. Functional Specifications

3.1. **Features**

Several bullet points of what kind of functionality your project will feature. What should the user be able to do?

- 3.1.1. Create a quiz
- 3.1.2. Quizzes represented as flash cards
- 3.1.3. User system
- 3.1.4. Comment system

3.2. **Scope of project**

What are some of the limitations of this product?

- 3.2.1. Target users are quite limited
- 3.2.2. In the beginning, the website will not have enough data

4. **Timeline:**

4.1. **Week 1**

- 4.1.1. Create database schema for quizzes
- 4.1.2. Basic web pages enabling users to add quizzes

4.2. **Week 2**

4.2.1. **Add user system so users can manage their quizzes**

Registration.

Management of quizzes.

4.3. **Week 3**

4.3.1 **Change how users can interact with the quiz**

4.3.1.1 Add button to let users choose to show answer by default or not

4.3.1.2 Multiple choice questions can allow users choose answer and see if it's correct or not

4.3.1.3 Flash cards function on essay questions.

4.3.2. **Some fixes to last week.**

4.3.2.1. Adding quizzes is fixed now, no error page shows up.

4.3.2.2. Make profile, login and register pages more connected.

4.3.2.3. Added links on navbar to quickly navigate to question adding form.

4.4. Week 4

Things done (More details in README.md in Final3):

4.4.1 Comment System

4.4.1.1. Nested comment.

4.4.2. Allow user to upload XML file to create a quiz.

4.4.3. All Quizzes can be view by all users (by adding a page displaying all quizzes)and users can only add questions to quizzes they create.

4.4.3. Handle different request errors. E.g. 404