Quiz master

This document will be about a multiple-choice questionnaires system. It will allow users to view, answer, edit, delete questionnaires.

# Design

## Requirements

Initial requirements

* can add multiple choices per questionnaire
* can add multiple questions per questionnaire
* can take the questionnaire test
* levels of access
  + 1 – answer questionnaires
  + 2 – level 1 permissions + view answers of questionnaires
  + 3 – level 2 permissions + CRUD of questionnaires
* The ability to login to access the site

Implied requirements

* Levels of access
  + 4 – level 3 permissions + ability to manage users (CRUD)
  + 3 – also can assign users to questionnaires
  + 2 – also can view users score history
  + 1 – also can view own score history
* Users’ passwords to be encrypted
* Have welcome page
* Have subjects for questionnaires (for example maths)
* Have draft and published questionnaires
* Have a consistent theme
* Work with PCs, tablets, and phones

## User interface

I made wireframe designs to visualise how the site will look

Home page

Graphical user interface, website

Description automatically generated with medium confidence

A user can go to the login page and read about the site on this page. This will be the first page a user sees

Login screenA picture containing background pattern

Description automatically generated

Users can login and register from this page. If they wished to register they will have the lowest permissions by default. If they require a more access they should contact the admin

The main template (guide)

Graphical user interface, chart

Description automatically generated

This is the template of how each page will look. The footer will contain a trademark and the logo.

Questionnaires

Chart

Description automatically generated

This is where users can see all the questionnaires. Depending on the access level users will be able to edit, assign or start questionnaires

Edit questionnaire modal

Graphical user interface, application, website

Description automatically generated

This modal will popup when the edit button from the questionnaire screen is pressed. Here you will be able to change the title, change the status and categories of the questionnaire. Once the user is finished editing the questionnaire, they can save their changes. If a user wants to change the questions, they can press the “modify questions” button

Edit questionnaire questions

Graphical user interface

Description automatically generated

Here users can do all the actions they could do on the edit questionnaire screen and modify questions. They can change the answers to a question, add and remove options, remove questions, and delete the questionnaire.

Assigning users to questionnaire

Graphical user interface

Description automatically generated

This modal pop up when the user clicks the “assign” button. Here users can search for students to assign to the questionnaire and save it.

Answering questions

Graphical user interface

Description automatically generated

This is where user will take the questionnaires. User can select an option for each question and once they are done, they can submit their answers

Users

Graphical user interface, chart, funnel chart

Description automatically generated

Users can change access levels and ban users as well as remove them from the site.

## Use cases

As a student I want to the ability to complete questionnaires that are assigned to me and see how well I did so that I can see my strongest and weakest areas in relevant subjects.

As a supply teacher I want the ability to view the correct answers so that xyz

As a teacher I want to be able to make/delete a questionnaire for specific people so that I can help relevant students improve their grade and remove out of date questionnaires.

As an admin I want to be able to change people’s access level and the ability to ban/remove so that the relevant people have the right access and people are banned/remove if they leave or act inappropriately.

## Database Schema

### Matrix

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | student | supply teacher | teacher | admin |
| questionnaires | R | R | CRUD | CRUD |
| Answers |  | R | CRUD | CRUD |
| Score | R (self) | R (all) | R (all) | CRUD |
| Users |  | R | R | RUD |

To make create new users, users must register on the login page

### Database design

# Construction