**Quizzical**

**Introduction:**

This is a quiz application where admin can add, update and delete questions on the basis of 3 tags. Knowledge Area, Geographical Region and Difficulty Level. This application is secure using security tokens. Every page will be authenticate with token. Password will also encrypt in hash form.

**Login:**

There is a login page from where user or admin can be logged in with there username or email. After login a token will generate and will store in local storage of browser that will let them know user has not logged out yet.

**Signup:**

There is a signup page from where user can sign up with unique email which should not exist in database. When user sign up then he will also be logged in with a token.

**Admin Dashboard/Dashboard:**

Admin Dashboard will only open if user is admin otherwise admin dashboard will not be open and in admin dashboard there will be a status of total number of questions etc. For dashboard it will only open when user is not admin and same things will be there as in admin dashboard.

**Admin Profile/Profile:**

Admin Profile will only open if user is admin otherwise admin profile will not be open and in admin profile there will be profile information of user and he can edit and change password from there. For profile it will only open when user is not admin and same things will be there as in admin profile.

**Admin Quiz:**

Admin Quiz will only open if user is admin otherwise admin quiz will not be open and in admin quiz there will be a table of questions and admin can add new question and also admin can update and delete these question.

**Admin Knowledge Area:**

Admin Knowledge Area will only open if user is admin otherwise admin Knowledge Area will not be open and in admin Knowledge Area there will be a table of knowledge area and admin can add new Knowledge Area and also admin can update and delete these Knowledge Areas.

**Quiz:**

Quiz will only open if user is not admin and user can view questions according to number of questions, knowledge area, region and difficulty level. When they search then a section of page will open where questions will be available and at the end of paper user can print the page using print button.

**Logout:**

When user click on logout then he will go to logged out and will go to login page and token will also delete from database and local storage.

**Authentication:**

Every page will authenticate at the begging using token. Token will produce from server side and it will be JSON web tokens and authentication will be use as a middleware for every route.

**Database Diagrams:**

|  |
| --- |
| **Profiles** |
| \_id  name  email  password  isAdmin  tokens |

|  |
| --- |
| **Quiz** |
| \_id  question  answers  region  difficulty  area |

|  |
| --- |
| **Knowledge Area** |
| \_id  area |

If isAdmin true then user will be admin and if isAdmin false then user will be not admin.