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**2ilabs Quiz App**

**Requirement Specification**

**Problem Definition**

A quiz system that allows the user to attempt question on a mobile app. The user will be able to sign up, sign-in (social as well, FB) and upload a profile photo.

**Implementation Requirement**

* **User should signup via facebook or custom signup logic**
* **User can login via facebook or custom login logic**
* **User can register details and upload passport**
* **Redirect user to the quiz page if login successful**

**Architectural Design**

**Client Mobile App**

**HTTP Method**

**Api endpoint**

***https://2ilabs.com/user***

***Json***

***App Server***

***http/s***

**Schema**

**Entity Relationship Model**

* **User register details**
* **User access quiz**

**Schema Rules**

* **User attempt quiz**
* **Quiz has question**
* **Quiz produce result**
* **User own result**

**A user can attempt many quiz**

**A quiz can be attempt by many user**

**Entity Relationship Diagram**

**User**

UserID

Fullname

Email

Password

**Quiz**

quizId name duration

**Result**

resultId score remarks

**Question**

questionId question option1 option2 option3 option4 answer

**[1,n]**

**[1,m]**

**[1,1]**

**[1,m]**

**[1,1]**

**[1,m]**

**[1,m]**

**[1,1]**

**{m, 1}**

**{m, 1}**

**{m, 1}**

**{n, m}**

**Translation of ERD to Relational Model**

User {**userID**, fullname, email, password}

Quiz {**quizID**, name, duration}

Result {**resultID**, **quizID,** score, remarks, **UserID**}

Question {**questionID**, **quizID**, question, option1, option2, option3, option4, answer}

**User\_attempt\_quiz { quizID , userID ,** date**}**

**Database Table**

**Table: User**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data type** | **Values length** |
| **UserId** | **int** | **11** |
| **Fullname** | **Text** |  |
| **Email** | **Varchar** | **55** |
| **Password** | **varchar** | **55** |

**Flow Chart representing process flow diagram**

**Login**

**Authentication with api end point**

**Is logged in**

***Redirect to login***

**Signup Recommended**

**Welcome to Quiz Page**

**Logout**

**Yes**

**No**

**No**