**Mobile Computing - Detailed Description of Project**

**Power of Computing**

**Team Members:** Group - 10

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**Team Name**:

The Titans

**1.** **Include a detailed description of text fields, UILables, buttons you are using, and what will be their inputs and how will it affect the end result.**

We’ll be using the following fields, labels, buttons and view controllers :

**Text Fields:** We’ll be using total of 8 text fields

* Enter name
* Enter Email ID
* Enter Password
* Enter Gender
* Enter Age in User signup page
* Enter Id
* Enter Password in User login page
* To fill in the text in home page

**UI Labels:** We’ll be using total of 14 labels

* **Signup:** For displaying signup.
* **Enter Name:** It will store the name of the user.
* **Enter Id:** It will store Id of the user.
* **Enter Password:** It will store the password of the user.
* **Gender:** It will store gender of the user.
* **Age:** It will store the age of the user.
* **LOGIN:** For displaying a login page.
* **Email Id:** Allows users to enter email ID.
* **Password:** Allows users to enter passwords.
* Already have an account label before the signup button.
* **questionCounterLBL:** It displays the number of questions attempted.
* **scoreLBL:** It displays the score of the quiz.
* Another label for displaying question
* Power of computing label for home page.

**Buttons:** We’ll be using total of 9 buttons

* **Signup in Signup page:** By clicking this button, a new user can sign up to their new account after giving appropriate details.
* **SignIn:** A user will be redirected to login/signup page to enter their registered details.
* **Login:** A user will be logged in after entering registered details.
* **Signup in login page:** By clicking this, a user will be redirected to signup page.
* **Logout:** A user will be logged out of account.
* **optionABTN, optionBBTN, optionCNTN, optionDBTN:** for selecting an option for the quiz question.

**UI Views:** We will use some Views

* **imageViewOfThePerson:** is used to display images of the person in the world of computing.
* **quizProgressBarView:** is used to display the progress of a quiz.

There will be a quiz tab where a question with 4 option inputs are given, and we expect a result for which the user selects. If the selected option is true, the output will be correct.

**2. Explain how items in the program will interact with one another.**

* For the Login and the Sign Up tabs, we will be using the Firebase database to store the User information and details.
* We will count the number of questions attempted and calculate the score of a user by the number of questions attempted correctly in the quiz after reading the data about a powerful person in the world of computing.

**3. Overview of the functions you are gonna use in the project and what will be parameters for each function.**

* getResource() function is used and the parameter used is index. This function returns resources index, if index is greater than or equal to 0 and index is less than resources count. Else returns nil.
* numResources() function returns resources count.
* numberOfSections() function returns the number of sections in tableView.
* selectedOptions() function returns correct,if the option selected is true. Else, returns wrong.
* updateQuestion() function returns the question and its options in the quiz. Else, give an alert and restart the quiz.
* restartTheQuiz() updates the question based on the score and the question.
* submit() function is used to alert the user that there was an error as they didn’t fill anything or left something blank. Else, prints successful login. Else, tells there is an error by using firebase.

**4. ...This list will continue to grow over time.**

* Will write functions for login, signup, logout and few others.
* And will add labels wherever necessary in the future.