
INTELLECT BOX

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ABSTRACT

The foremost goal of "IntellectBox" is to facilitate a user-friendly application for all customers and decrease the human intervention to most level. In past years, quiz is performed manually and now because of technology, we are able to do with apps and websites. The purposeful necessities encompass to create customers which are going to take part withinside the quiz, computerized rating and file technology and admin works like creating quiz and managing the database.

Keywords: Flet Framework, Python, MongoDB, Android Studio.

I. INTRODUCTION

Intellect box will provide examinations in form of MCQs, Fill in the blanks and match the following. This app will be able to effectively store information in the database and reduce paperwork to an absolute minimum. This app is designed to save student data, measure the student's grades, and highlight errors so that the student can correct them.

II. METHODOLOGY

Python using flet framework:

Flet makes it easy for developers to build real-time web, mobile, and desktop apps in Python. Using Flet controls, which are based on Google's Flutter, you create a user interface for your program. By combining smaller widgets, hiding complexities, implementing UI best practices, and applying reasonable defaults, Flet not only "wraps" Flutter widgets but also adds its own "opinion" to ensure that your apps look cool and professional without requiring additional effort.

MongoDB:

For large-scale data storage, MongoDB is a document-oriented NoSQL database. MongoDB uses collections and documents instead of tables and rows like traditional relational databases. In MongoDB, documents consist of key-value pairs that represent basic units of data.

III. MODELING AND ANALYSIS

1. Recommendations

HARDWARE RECOMMENDATIONS:

- Processor : Intel i5 9th generation
- RAM : 8GB
- Hard disk : 1TB

SOFTWARE RECOMMENDATIONS:

- MongoDB

Tools used – python using flet framework

2. Quiz Task

Select any Quiz or subject which he /she wants to give Examination.

One interviewer can give Quiz only for one time.

Once a quiz has finished, Score can be shown considering the quiz has been taken from any individuals. As a result, the following tasks are define as interviewee task.

- Log in to the system as Interviewee privilege
- Select Desire Quiz
- Answer questions
- Finish Quiz

3. Flow Chart

The flowchart is a means of visually presenting the flow of data through an information processing system, the operations performed within the system and the sequence in which they are performed. In this lesson, we shall concern ourselves with the program flowchart, which describes what operations (and in what sequence) are required to solve a given problem. The program flowchart can be likened to the blueprint of a building. As we know a designer draws a blueprint before starting construction on a building. Similarly, a programmer prefers to draw a flowchart prior to writing a computer program. As in the case of the drawing of blueprint, the flowchart is drawn according to defined rules and standard flowchart symbols prescribed by the American National Standard Institute, Inc.

Symbols used to make flowchart:

Start or end of the program:



Computational steps or processing function of a program:



Input or output:



Decision making and branching:



Connector or joining of two parts of program:

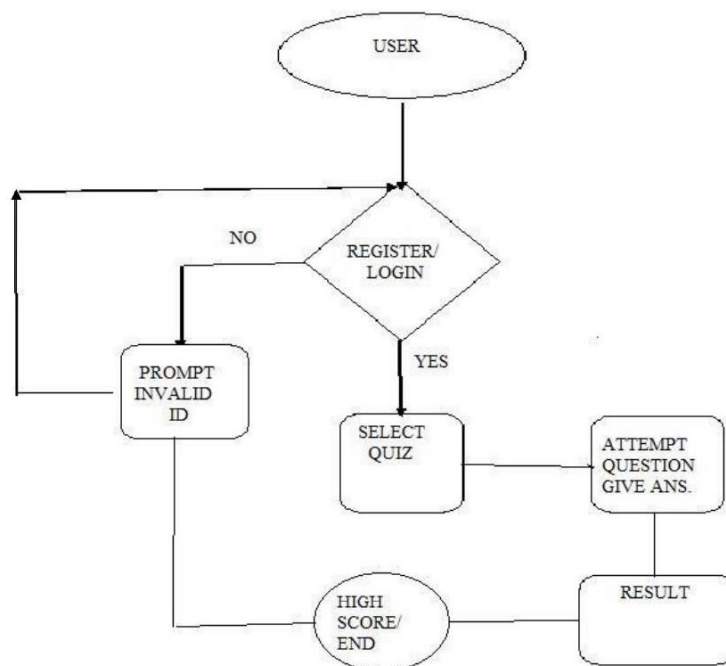


Figure 1: Flowchart for intellect box

4. Description for flowchart

1. After login with E-mail and password, that particular user will be verified from database.
2. If user is administrator, following options shall be managed.

- User
- Login / Register
- Quiz
- Questions and Answers
- Score Above four options can be add, edit and delete by administrator.

If user is not an administrator, he/she can select the quiz and answer the questions.

3. Score board will be visible after completion of quiz.

5. Design Analysis:

Password validation

Password validation has configured with the following manner. should contain at least one digit should contain at least one lower case should contain at least one upper case should contain at least 6 from the mentioned character Email Validation has also configured. Forget password.

If any user forget his/her password then user should input email id. If server user found at database then system will generate a password and sent to concern user’s email address .This reset password will not be shown by anybody without the user (provided email to that user.

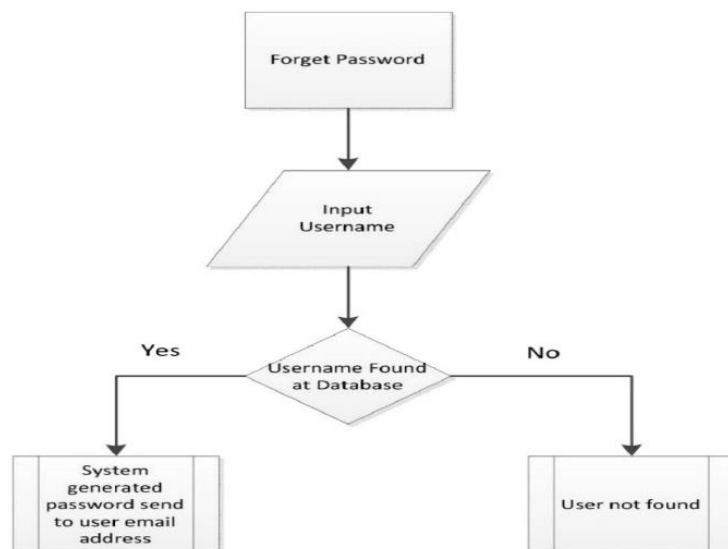


Figure 2: Forget password system design

Question and Answers

- Question:

Question will be written here.

- Answers:

Four multiple answer (max) can input by the administrator. Administrator can also set less than four multiple (i.e. two, three) answer for any question.

- Quiz Name:

Every active Quiz will be shown here which let administrator to choose any for add questions.

- Order No:

Question order can be set here. For Update or Delete any question, Administrator need to choose any quiz. All questions will visible to administrator for that particular quiz.

Score:

Score will be shown for any particular quiz after completion. Administrator can add following options.

They are

->User Name - User name will be provided as the user’s email address.

->>Password - Set password for that particular user.

After any user has been added, an automatic email is sent to that user by system the person should click on the link provided by the email and the user will be verified i.e the user account will be created.

IV. RESULTS AND DISCUSSION

Home, Login, Signup:

The user needs to enter their registered email address and password in order to login. If the user has not sign in before, he/she has to sign up by clicking signup button and they have to enter their details which are required to get started into the app. After entering details user will be taken to login page.

WELCOME PAGE ,LOGIN PAGE :

Login— Login screen will appear after successful user registration. Enter username and password to the desire field. Hint text indicates where you want to input email id and password. Tap the login button after typing email id and password.

Welcome page--- Welcome page will appear after 3-5 seconds after clicking run button .

Forget password-

- If password has forgotten then tap the 'forget password' button.
- Another screen will appear where username need to input.
- After input username tap the button.
- Check the email address which one is tag with user ID.

Reset password link will be sent to email.

SIGNUP— Categories— User could choose a subject quiz they want to take.

After login-> The user may create a test or take the test .

V. CONCLUSION

The proposed system will take less time and be more effective than the current system. Because the simulator itself performs the calculation and evaluation, the result will be accurate and announced quickly; however, the current system will not announce an instantaneous result. Because it is solely dependent on the administrator, the proposed system is extremely secure because there are fewer chances of questions being leaked than in the current system.

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