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# QUIZ APPLICATION

— ANDROID —

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# ABOUT THE PROJECT

Quiz Application is an android application that has general questions related to general knowledge. It has multiple choice questions without any time limit and it also calculate scores of each correct answer. First the user have to sign in then the user is registered to our application now the person can login and take quiz. After login our application will have two options namely Take quiz and Filter. This filter option enables us to select the difficulty(easy, medium, hard) and category(different categories provided by the API). After selecting these two, user can start the quiz by clicking on take quiz option. User can see a question along with four options and he has to select a single correct answer among them. By clicking on the next option provided below, he can go to the next question. User can even go to the previous question and can re-select the answer by clicking on the prev option. At the last question submit option will appear in place of next option. If a user clicks on submit option a box will appear which asks user to submit the quiz or cancel the submission. If user selects submit option then the quiz will be submitted and results will be shown immediately. This application allows user to view the solutions.

# FEATURES

- 1.) There are different categories to choose to take QUIZ
- 2.) We can choose the difficulty level to choose to take QUIZ
- 3.) After completion of QUIZ for each and every question there is status of answer to check with
- 4.) After QUIZ questions and answers are displayed side by side to check
- 5.) At last score is displayed in percentage

# ANDROID COMPONENTS

- Relative layout . API
- Constraint layout
- Text View
- Edit text
- Password
- Button
- Radio buttons
- Image view
- List View
- Intent
- Database (SQLite)
- Adapters
- Toast

# USER INTERFACE (UI)

**PAGE WISE UI DESIGN:** Approx we are using 14 pages and login and sign up pages.

## **Login page:**

Username field, the password field, login button, and sign-in button

## **Sign-in page:**

Username field, the password field, and sign in button.

## **1st page:**

It is an index on that an image and two buttons will be displayed one button is to take the quiz directly and another button is to set the difficulty level of the quiz.

## **2nd page:**

This page is to set difficulty level if a person chooses filter in 1st page after choosing the difficulty level the page will display a type of difficulty and category.

## **3rd page to 12th page:**

Each page will contain a question number, question, four options to choose by using radio buttons they can choose the correct option and next button is there to continue with remaining questions.

## **13th page:**

This page will display results.

## **14th page:**

This page will contain two choices answers and questions

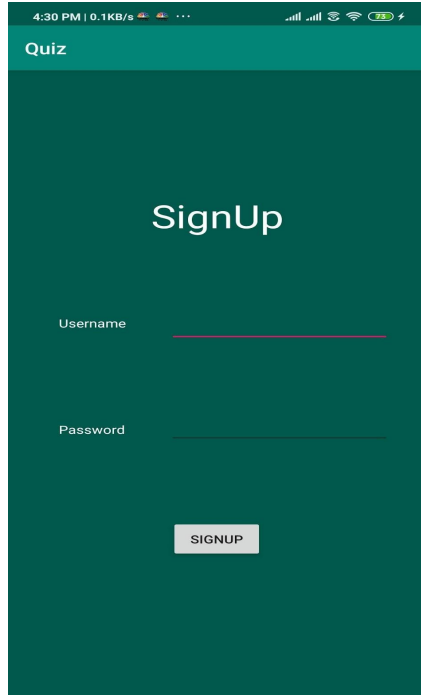
Answers choice:

Question wise it contains the status of the answer and correct answer.

Questions choice:

Question wise every question is displayed

# SIGN-UP PAGE



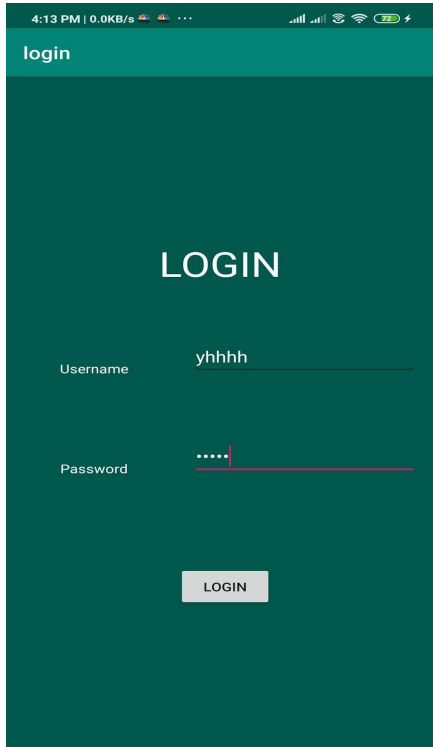
The screenshot shows a mobile application interface with a teal header bar labeled "Quiz". The main background is a dark teal color. In the center, the text "SignUp" is displayed in white. Below this, there are two input fields: "Username" and "Password", each followed by a horizontal line representing the input area. At the bottom center, there is a white rectangular button with the text "SIGNUP" in black capital letters. The top status bar of the phone shows the time as 4:30 PM, data usage as 0.1KB/s, and battery level at 73%.

Username field, the password field, and sign in button

It stores the new user's data into database.



# LOGIN PAGE

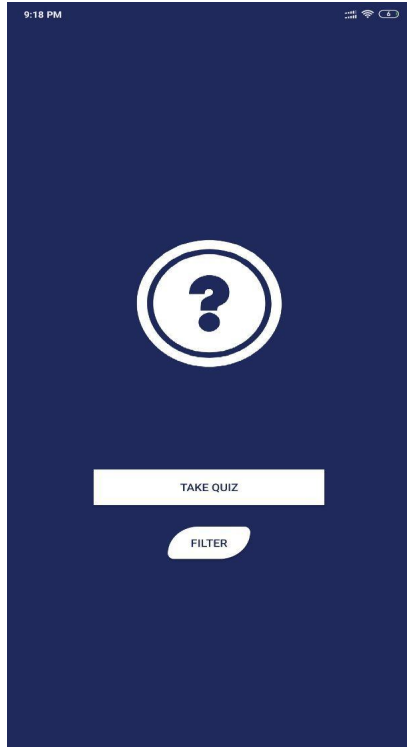


A mobile application login screen with a dark teal background. At the top, a status bar shows the time as 4:13 PM, data usage at 0.0KB/s, and various connectivity icons. Below the status bar is a teal header with the word "login" in white. The main content area is a darker teal and features the word "LOGIN" in large, white, uppercase letters. Below this, there are two input fields: "Username" with the text "yhhhh" and "Password" with masked characters ".....". A white "LOGIN" button is positioned at the bottom of the form.

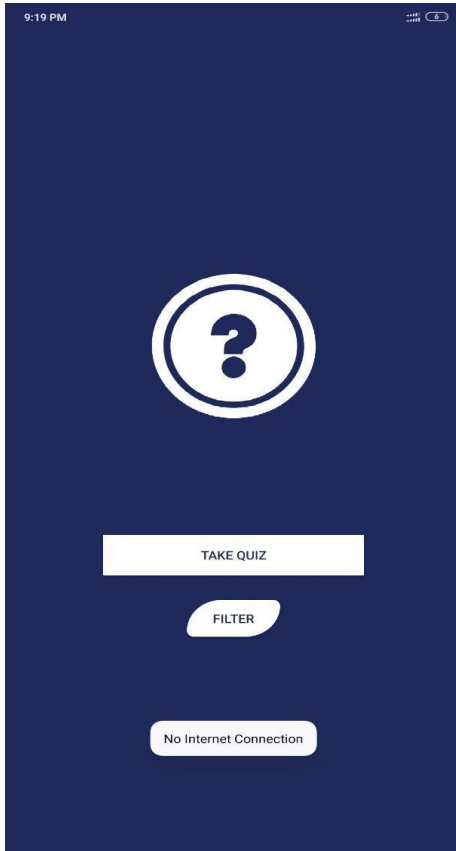
Usern  
ame field, the password field, login button, and  
Login button

User to login into his account to take quiz

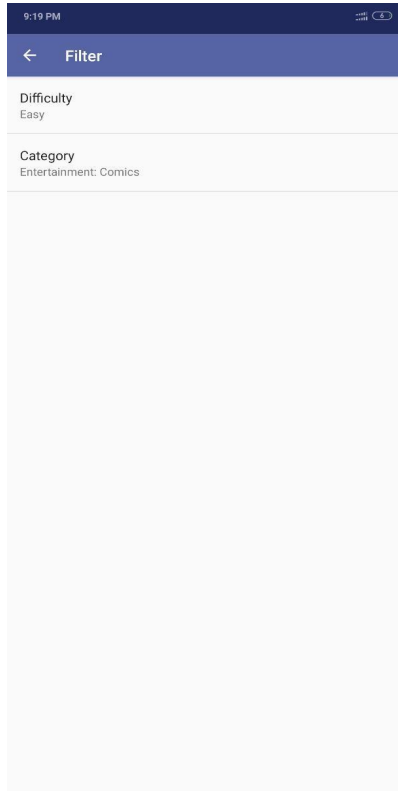
# HOME PAGE



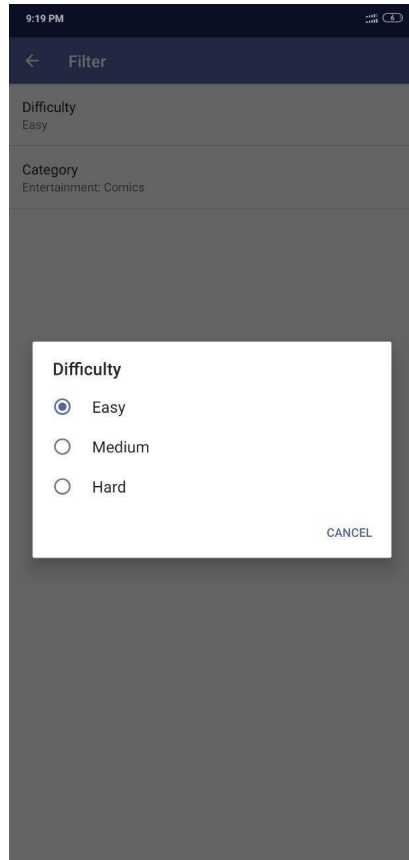
It is an index on that an image and two buttons will be displayed one button is to take the quiz directly and another button is to set the difficulty level of the quiz.



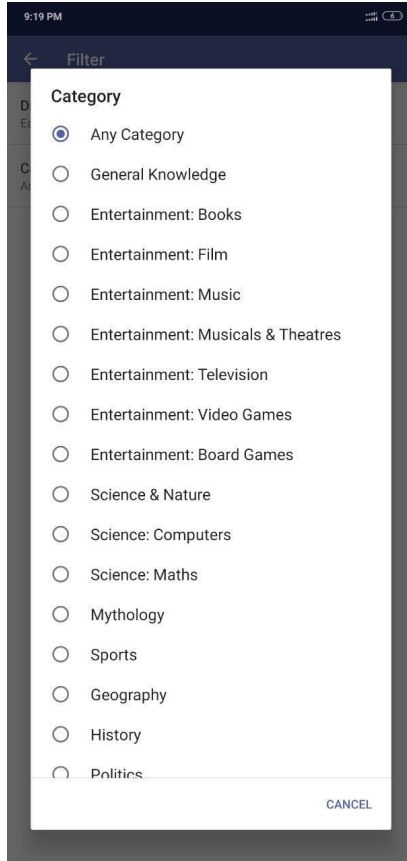
If the mobile is not connected to internet then toast will be displayed that internet is not connected



Filter page to filter the difficulty  
and categories



To select the level of difficulty



Can be selected from various categories

9:25 PM @

Quiz

Question: 1/10

What is not a wind instrument?

☐ Oboe

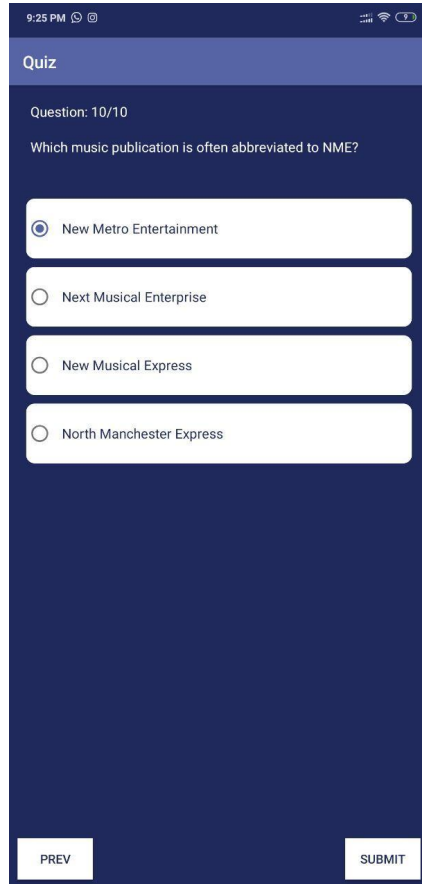
☐ Viola

☐ Trombone

☐ Duduk

NEXT

Questions with 4 options with next button to go to next button one option can be selected

A mobile application interface for a quiz. At the top, a status bar shows the time as 9:25 PM and various icons. Below this is a dark blue header with the word "Quiz" in white. The main content area is white and contains the text "Question: 10/10" and "Which music publication is often abbreviated to NME?". There are four radio button options: "New Metro Entertainment" (selected), "Next Musical Enterprise", "New Musical Express", and "North Manchester Express". At the bottom, there are two white buttons labeled "PREV" and "SUBMIT" on a dark blue background.

9:25 PM

Quiz

Question: 10/10

Which music publication is often abbreviated to NME?

☒ New Metro Entertainment

☐ Next Musical Enterprise

☐ New Musical Express

☐ North Manchester Express

PREV SUBMIT

Questions with 4 options with next button to go to next question and with previous button to go to previous question one option can be selected at last submit button to submit our answers.

Q



9:25 PM

Quiz

Question: 10/10

Which music publication is often abbreviated to NME?

- ☒ New Metro Entertainment
- ☐ Next Musical Enterprise
- ☐ New Musical Express

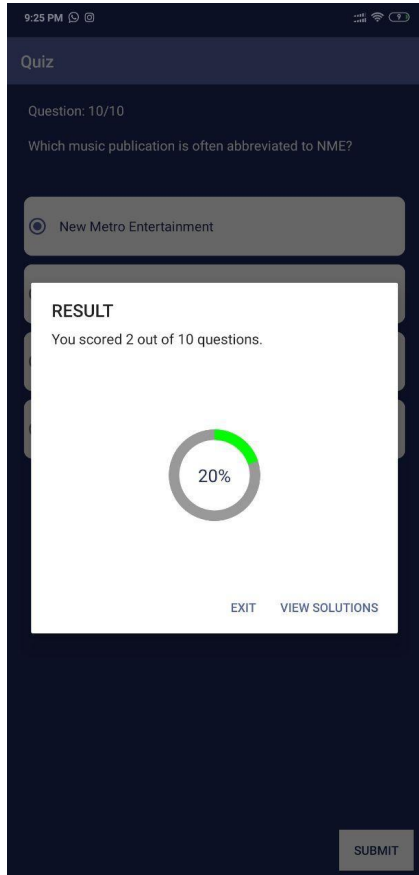
**Confirm Submission**

Do you want to submit quiz?

CANCEL SUBMIT

PREV SUBMIT

To conform submission

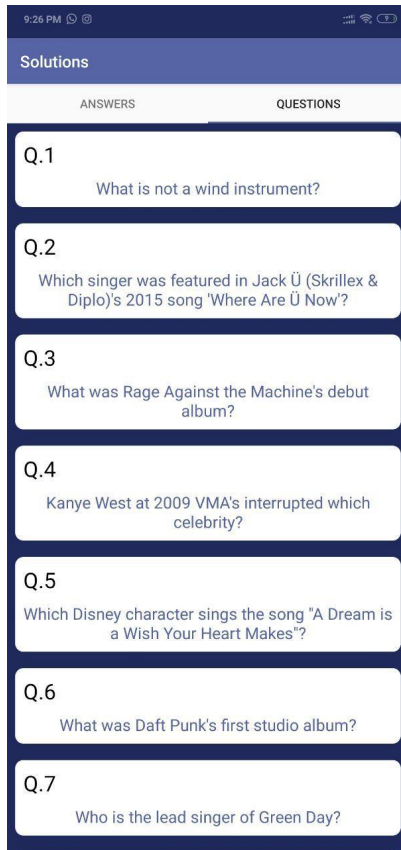


Result is displayed with percentage and number of questions answered with exit option to exit or to view solutions

9:25 PM

Solutions	
ANSWERS	QUESTIONS
Q.1	3. Trombone 2. Viola
Q.2	2. Ellie Goulding 3. Justin Bieber
Q.3	Not Attempted 4. Rage Against the Machine
Q.4	Not Attempted 4. Taylor Swift
Q.5	Not Attempted 4. Cinderella
Q.6	Not Attempted 2. Homework

Status of each and every question



o view the questions and answers  
simultaneously

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# DATA BASE

We are using SQLite Database to store each and every users username and password

USER_NAME	PASSWORD

# API USED

## Open Trivia

### About API

The Open Trivia Database provides a completely free JSON API for use in programming projects. Use of this API does not require a API Key, just generate the URL below use it in your own application to retrieve trivia questions.

All data provided by the API is available under the Creative Commons Attribution-ShareAlike

### Use of API

We are using this API to get questions from the internet with this API we can choose from various categories and we can choose the difficulty level