

Task :

Make simple quiz app using local database. All sample questions are mentioned below. Code should be well comments and proper.

1. Design should be done using constraint layout
2. Use Sqllite database.

Note :

Do not use the internet for download ready made code. You can use the Internet for Syntax.

Screens and Explanation :

Screen 1 :

Put **Play Game** button in the middle of the screen. On tap of it redirect user to screen 2 where he can play quiz game.

Screen 2 :

1. Fetch random 10 questions from local database and display one by one.
2. Time for each question is 20 seconds.
3. If user don't give answer within 20 seconds then next question will be displayed.
4. Store 4 Options on Database but show 3 options (1 Correct and 2 Random incorrect options) only.
5. Score Calculation Logic
For Correct Answer : $10 + (20 \text{ Seconds} - \text{Seconds in which user given answer})$
For e.g if user give answer in 5 seconds then score is $10 + (20 - 5) = 25$
For Wrong Answer or Un-attempted question score is 0
6. Show Total score at the top left side and timer on top right side.
7. Button color should be changed to Green and Red for correct and wrong answer respectively.
8. Timer, Question No and Score should be show on top.

Screen 3 :

1. Show Total Score and Win or Lose Message.
2. (a) If 5 answers are correct then show message **You Won!**
(b) If 7 answers are correct then show message **You Won! Congratulations.**
(c) If 9 answers are correct then show message **You Won! Congratulations and Well Done.**
(d) If all 10 answers are correct then show message **Awesome. You are Genius. Congratulations you won the Game.**
(e) If 0, 1 or 2 answers are correct then show message **Sorry, You failed.**

(f) If 3 or 4 answers are correct then show message **Well played but you failed. All The Best for Next Game.**

3. Put Play Again Button at the Bottom.

--- Best of Luck ---

Sample Questions :

1. Who is the Prime Minister of India?
Narendra Modi, Rahul Gandhi, Manmohan Singh, Amit Shah
2. What is the capital of India?
Mumbai, Chennai, Delhi, Ahmedabad
3. What is sum of $15 + 25$?
5, 25, 40, None
4. Which one is maximum? 25, 11, 17, 18, 40, 42
11, 42, 17, None
5. What is the official language of Gujarat?
Hindi, Gujarati, Marathi, None
6. What is multiplication of $12 * 12$?
124, 12, 24, None
7. Which state of India has the largest population?
UP, Bihar, Gujarat, Maharashtra
8. Who is the Home Minister of India?
Amit Shah, Rajnath Singh, Narendra Modi, None
9. What is the capital of Gujarat?
Vadodara, Ahmedabad, Gandhinagar, Rajkot
10. Which number will be next in series? 1, 4, 9, 16, 25
21, 36, 49, 32
11. Which one is minimum? 5, 0, -20, 11
0, 11, -20, None
12. What is sum of 10, 12 and 15?
37, 25, 10, 12
13. What is the official language of the Government of India?
Hindi, English, Gujarati, None
14. Which country is located in Asia?
India, USA, UK, None
15. Which language(s) is/are used for Android app development?
Java, Java & Kotlin, Kotlin, Swift