**To complete this lab:**

**Section A: Design and GUI (120 Marks)**

* + 1. Create a new JavaFX application project in your chosen Java IDE.
    2. Name the project using your name.
    3. Design the GUI interface for your JavaFX application, including a Table View to display the database content.
    4. Take a screenshot of your GUI layout, ensuring it includes your name, student ID, and date.

A screenshot of a computer

AI-generated content may be incorrect.

**Section B: Database Connection (180 Marks)**

* + 1. Implement the database connection code in your JavaFX application.
    2. Ensure the code includes the necessary database URL, username, and password.
    3. Take a screenshot of the code where you established the database connection.

A screenshot of a computer

AI-generated content may be incorrect.

**Section C: Data Retrieval (240 Marks)**

* + 1. **Create a Java class representing the structure of your database table.**
    2. **Write code to retrieve data from the MySQL database table and load it into the Table View component.**
    3. **Implement an event handler to trigger this action on a button click.**
    4. **Take a screenshot of the code where you retrieve and display data in the Table View.**

**A screen shot of a computer program

AI-generated content may be incorrect.Section D: GitHub and Documentation (360 Marks)**

* 1. Upload your JavaFX project to a GitHub repository.
  2. Create a well-documented DOCX or PDF file in your repository, including:
     + 1. Screenshots of your GUI layout with your name, student ID, and date.
       2. Screenshots of your database table structure and sample data.
       3. Screenshots of relevant portions of your code.
       4. A link to your GitHub repository.

Github link

https://github.com/01Niraj01/lab1