

## Software Engineer (PHP, Laravel) – Coding Test

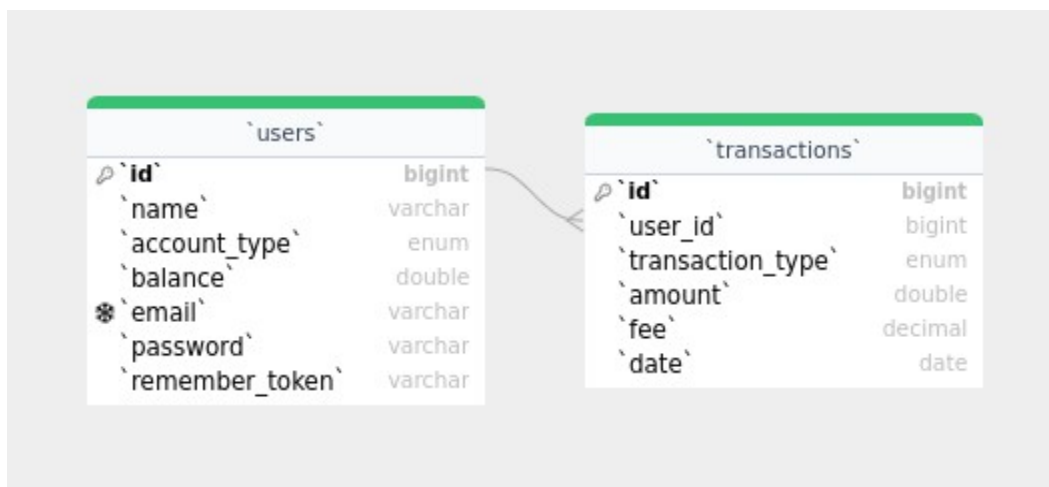
Duration: 5 Hours | Mark : 25

### Task:

Implement a banking system with two types of users: Individual and Business. The system should support deposit and withdrawal operations for both types of users.

### Requirements:

1. First, you will have to install a fresh Laravel project and make an initial commit before starting coding.
2. Create a users and transactions table in the database with the following ERD:



3. Implement the following routes in Laravel to handle the banking operations:
  - POST /users: Create a new user with the provided name and account type.
  - POST /login: Login user with the email and password.
  - GET /: Show all the transactions and current balance.
  - GET /deposit: Show all the deposited transactions.
  - POST /deposit: Accept the user ID and amount, and update the user's balance by adding the deposited amount.
  - GET /withdrawal: Show all the withdrawal transactions.
  - POST /withdrawal: Accept the user ID and amount, and update the user's balance by deducting the withdrawn amount.
    - Apply the appropriate withdrawal rate based on the user's account type (0.015% for Individual, 0.025% for Business).
    - Implement the free withdrawal conditions for Individual accounts as specified:

- Each Friday withdrawal is free of charge.
  - The first 1K withdrawal per transaction is free, and the remaining amount will be charged.
  - The first 5K withdrawal each month is free.
  - Decrease the withdrawal fee to 0.015% for Business accounts after a total withdrawal of 50K.
4. Commit your latest code, create a public GitHub repository, and push your final code.

**Evaluation Criteria:**

- Code organization and structure
- Correct implementation of the deposit and withdrawal logic
- Proper handling of account types and rates
- Implementation of the free withdrawal conditions for Individual accounts
- Decreasing the withdrawal fee to 0.015% after a total withdrawal of 50K for Business accounts

**Deliverables:**

- The link to the candidate's public GitHub repository containing the completed task.
- The repository should include all the necessary Laravel code and migrations.
- The repository should have a clear README file explaining how to set up and run the project.

Please ensure that the project is completed within the given time frame and that the implemented code meets the specified requirements. Good luck!