**Use Case 1: Banking Application**

You have to build a customer’s experience with Bank Accounts

**Admin Roles**

* The admin's details will be in database first hand.
* The admin can login with username and password
* The admin should register a customer with the following details:

Full name

Address

Mobile No

Email id

Type of account – Either Saving Account or Current Account

Initial Balance (min 1000)

Date of Birth

Id proof

* As a result, the customer must be registered with the bank and an Account no should be generated for the customer’s account. A temporary password should also generate
* The admin should be able to add/delete/modify/see customer details, however the password and balance MUST NOT be visible to the admin

**Customer Roles**

* Customer registration is done by admin. After regsitration the generated account no and password should be given by admin to customer.
* With the help of account no and password, the customer should be able to set up a new password.
* After the new password is set, the customer can log in with account no and password
* The customer should be able to logout
* After login customer should come to customer dashboard page where the created account is displayed along with balance
* Clicking on View will display last 10 transactions in increasing/decreasing order of date.
* Clicking on Deposit will open a dialogue box where customer can put the amount and click submit. The balance will increase and the transaction must be saved in the database
* Clicking on Withdraw will open a dialogue box where customer can put the amount and click submit. The balance will decrease and the transaction must be saved in the database
* The customer can maintain 0 balance, but not below that
* The customer should be able to close the account on solo basis – no admin required
* The customer can close the account only after withdrawing all the money.

**Bonus Functionality**

* The customer should be able to download a PDF of last 10 transactions by clicking Print in the mini statement.

**Instructions:**

* You have to use Eclipse IDE, Tomcat 9 Server, MySQL Server and MySQL Workbench
* Do not focus too much on UI, focus more on completing end-to-end functionality
* After initial analysis, have a quick session with mentors to clarify the requirements
* Prepare a BOM (Bill of Materials) i.e., a list of software & hardware to be used
* Design and implement a well-modularized code
* Design a normalized database schema
* Only authenticated users should be allowed to access the application