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**User Portal Description**

**Features:**

**1)Registration:**

The registration is the first step to get started with the application. The user will have to enter his first name, last name, email, phone number, address, username, password, date of birth, and select an identity card (Aadhaar card, pan card or voter id) and enter its number and the scanned copy of the identity provided. If the username given by the user is checked for duplication in the database, if a similar username exists then he or she will have to register with a new username. On registration the user information is passed on to the admin for verification. Once the admin verifies an email will be sent to the user that his/her account is activated and a primary and saving account is created for the user.

**2)Login:**

The user can login with the username and password that he had provided on registration after the admin authorizes his account. The admin can also enable or disable the account. So, for successful login the user has to enter correct username, correct password and the user has to be authorized and enabled by the admin

**3)Deposit:**

The user can deposit money in his/her accounts by entering the correct account number and the amount if the feature is enabled by the admin.

**4)Withdraw:**

The user can withdraw money from his/her accounts by entering the account number and the amount if the feature is enabled by the admin. The operation won’t go through if the amount to be withdrawn is more than the user's account balance.

**5)Transfer:**

The user can transfer money from his/her account to other accounts by entering his/her account number, the receiver's account number, the IFSC code of the receivers account and the amount if the feature is enabled by the admin. The operation won’t go through if the amount to be transferred is more than the user's account balance or the IFSC code of the receiver account is incorrect.

**6)Transaction History**

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In the view transaction history section, you can view transactions for a particular account. Both when money was deposited or withdrawn.

**7)View Transfer History:**

In the view transfer history section, you can view transfers for a particular account. Both when money was transferred or received from the account will be displayed

**8)Cheque Book Request:**

The user can request cheque books for his/her accounts by entering the account number and number of pages. Once the admin accepts or rejects the request the user will get a mail.

**9)Update User**

The user can update some of his details with this function. The user can reset his password by entering the new password and the correct old password. The user only has to enter the fields that he wants to update.

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**ADMIN PORTAL**

**ADMIN PORTAL DESCRIPTION:**

It deals with all the back-end data generation and product information. The role of the admin is to:

• Authorize the user

• Grant access to user

• Enable/disable the user

• Authorize the Cheque Book requests

**User Authorization:**

After successful registration on the user portal, the user waits for the confirmation mail from the admin for his/her registration. The admin verifies the data given by the user and upon verification, the status is sent to the user's email which is provided by the user at the time of registration. Only upon successful verification, the user’s account will get activated, the account number gets generated and he/she can proceed with banking activities. In case of failure, user has to re-register by providing the correct data. The admin also has a login to view the user details and perform actions accordingly

**Access Granting:**

The admin must set the transaction rights for the user. The three transaction rights are: • Credit – Users are allowed only to deposit.

• Credit + Debit – Users are allowed to deposit and withdraw money.

• Credit + Debit + Transfer – User is granted full transaction rights (i.e) he/she can deposit, withdraw and also perform transfer of money to other account holders.

**Enabling/Disabling the User:**

The admin can disable(block) the user if he/she is found to be suspicious. If the user is disabled, he/she cannot login and hence is restricted from performing transactions. The admin can also enable the disabled user after verification in person.

**Authorizing Cheque Book Requests:**

The admin has to authorize the user’s request for cheque book issue. Only upon admin’s confirmation, cheque books are issued to respective users and the confirmation mail is also sent to the user’s email id.

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Guide to Execute the projects

**1.User Portal Backend (icinbank\_new)**

1. Open Spring tool Suite

2. Browse to the folder that contains the project.

3. Configure the application.properties file to the database that you wish to use. 4. Run the project as a spring boot app

**2.Admin portal Backend(admin\_service\_new)**

1. Open Spring tool Suite

2. Browse to the folder that contains the project.

3. Configure the application.properties file to the database that you wish to use.(Note make sure that the database that you use for the user and admin portal is same)

4. Run the project as a spring boot app

**3.User Portal Front End (userportal-angular)**

Open Visual Studio Code

In the terminal type Navigate to the project folder (cd userportal-angular) In the terminal type: npm install

Once done type: ng s --o to execute

**4.Admin portal Front End**

Open Visual Studio Code (adminportal-angular)

In the terminal type Navigate to the project folder (cd userportal-angular) In the terminal type: npm install

Once done type: ng s --o to execute

Note: Please make sure that you configure all the ports

User backend:8092

Admin Backend:8084

User frontend: 4200

Admin Front End: 4201

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**5. User Portal testing (UserPortalTesting)**

STEPS FOR TESTING OF BOTH THE PORTALS.

STEP 1: Open the project in Eclipse

STEP 2: Go to src/test/java

STEP 3: There will be two packages:1)Authentication 2)User Actions

STEP 4: In the file, in System.setProperty("webdriver.chrome.driver", "(Give the path where the driver is stored)");

STEP 5: Under Authentication, There will be Login.java

STEP 6: Run the file as TestNG test

STEP 7: Similarly under UserActions,there are files named

CheckBookRequests.java,EditProfile.java etc

STEP 8: Open them one by one . Make the changes mentioned in STEP 4 and do Step 6.

6) **Admin Portal testing (AdminPortalAutomation)**

STEP 1: Open the project in Eclipse

STEP 2 : Go to src/firsttestngpackage

STEP 3: Open the AdminAutomation.java file

STEP 4: In the file, in String driverPath = "(Give the path where the driver is stored)";

STEP 5: Run the file as TestNG test.