**Customer side design**

The user interface is kept simple and understandable. The user need not take any additional effort to understand the functionality and navigation in the application. The layouts are chosen in such a way that user can easily understand where the input has to be given. Non mandatory fields are mentioned with required descriptions to help the user in giving the correct input.

The following are the main screens and features in this application.

* Application main homepage
* Sign-up page
* Login page
* Customer homepage
* Transaction history
* Transfer funds page
* ATM card applying page
* e-mail updation page

**Home Page**  
This is the first page that any user is greeted with. It is used to do choose the domain of the user:

* **“Customer Domain”:** Existing users can choose sign-in and new users can choose sign-up options
* **“Bank officials Domain”:** The bank employees can choose this domain to login with their access rights

**Signup Screen:**  
This screen is designed to obtain the necessary details required to be filled by any new customer of a bank to get registered and create an account. The Screen has the following columns:

* Username
* Customer ID
* Email-id
* PAN card number
* Password
* Re-type password
* Checkbox to get the user's confirmation on agreeing the policies

The new customer of a bank should provide all the following details to get registered and create an account.

* **“Submit Button”:** By clicking the submit button, all the details of the employee will be stored in the database and a employee id will be assigned.
* **“Reset Button”:** The reset button helps the employee to reset the details given by him.

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**Customer Login page**

This page allows the existing users to login to the system using the valid username and password

**Activities:**

* Verifying the username and password with that in the database
* Providing access to valid users with correct credentials
* Denial of access to invalid credentials and displaying alert messages.

**Customer Login page**

This page allows the logged in customers to choose one of the available functions in the applications including balance enquiry, transaction history, funds transfer, bills payment, details updation and ATM card application

**Activities:**

* Provide a service as per the customer's choice
* Fetch and display data or perform transactions as per the user's requirement

**Transaction history page**

This page allows the customers to view the latest five transactions of their accounts with details including the payee, receiver, amount, details and the status of the transaction.

**Activities:**

* Provide an easy way to view the short account statement
* Helps the user know the status of the transactions performed

**Money transfer page**

This page allows customers to make money transfers to other accounts. Details including the payee account number, the amount to be transferred and a short description of the reason for payment are to be given by the customer.

**Activities:**

* Facilitates instant money transfer

**ATM card applying page**

This page allows customers to choose apply for an ATM card. The user can provide the details including the address, Aadhaar number and submit the form to apply for an ATM card online.

**Activities:**

* Ease of applying ATM card by avoiding the traditional method of going to the bank and applying it

**e-mail id updation page**

This page allows customers to update their personal details. Currently it is designed in such a way that the user can update the email id.

**Customer side design**

The following are the main screens and features in the bank employees perspective of this application.

* Bank Employee homepage
* View customer details
* ATM card requested list
* ATM card request process

**Bank employee homepage**

This page allows the bank employees to choose one of the operations need to be performed which can be viewing the customer details, viewing the ATM card requested list, ATM card request processing or updation of the customer details.

**Activities:**

* Enables a user friendly page to choose the action to be performed

**View customer details page**

This page allows the bank employees to view the details of a particular accountholder by entering the account number. It displays the account number, customer name, current balance, address and contact details of the customer

**Activities:**

* Provides the complete details of a customer instantly

**View ATM card requested list page**

This page allows the bank employees to view the list of customers who have submitted a request for ATM card. The details are displayed as a tabular form and the bank employee can choose a request and process it from this page

**Activities:**

* Provides the details of ATM card applicants
* Processing is linked with the table and it makes the processing easy

**ATM card request processing page**

This page allows the bank employees to process an ATM card request and update the status of the application to the customer

**Activities:**

* Makes the processing of application easier
* Helpful for users to know the status of the application

**Storing the details of the new customer when he signs up.**

Once the new customer enters all the information which is required for registering to the application and on clicking the submit button on the signup screen the mandatory fields are checked, if not empty the field’s values are retrieved and stored in their corresponding variables on the server side and if empty and error dialog is shown to check the mandatory fields.

**Generating the primary key for signed up customer**

After the submission of details by the new customer, a unique primary key is set for each customer to store the details and maintain the customer records without repetition or overlapping. This primary key can be used at any further time to uniquely identify a particular customer.

**Storing the updated information of the employee**

Whenever there is any change/update in the details of the customer, it can be easily updated by the bank employees directly or the user can request the updation of information which could be processed after verification by the bank officials .The updated information can be easily viewed by the employee by logging on to his profile.

**\*\*\*\*Validations, sequence diagrams**