Title: Online Bank Management System

- **Subtitle:** EX 10 : Story Boarding and User Interface design Modelling
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- **Registration No:** 22BCE3939
- **Team No: 24**
- **Course/Subject:** Software Engineering Lab (BCSE301P)
- **Instructor’s Name:** Dr. Mehfooza M

Date of Submission: 26/03/25

1. Storyboarding for Online Bank Management System

1.1 User Personas

The system is designed for three key users:

- **Customer**: Uses the system for transactions, account management, and loan applications.
- **Bank Employee (Manager/Admin)**: Approves loans, manages customers, and monitors bank activities.
- **System Administrator**: Manages user roles, security, and overall system performance.

1.2 Key Features & Screens

1. **Homepage**: Prompts users to log in or register as a first-time user.
2. **Registration Page**: Allows new users to sign up and wait for approval.
3. **Login Page**: Users enter credentials to access the system.
4. **Dashboard**: Displays account balance, transactions, and quick actions.
5. **Fund Transfer Page (Transaction Dashboard)**: Allows users to send money to another account.
6. **Loan Management Dashboard**: Customers apply for loans, employees approve/reject requests.
7. **User Profile & Statements**: Displays user details, past transactions, and account history.
8. **Support & Contact Us**: Provides assistance and customer service options.
9. **Logout**: Users can securely log out of the system.

1.3 Complete Customer Flow Storyboard

This storyboard illustrates the journey of a customer using the Online Bank Management System (banKS):

1. **Customer Visits Homepage**: The customer opens the banKS website and sees options to log in or register as a first-time user.
2. **Customer Registers as a New User**: The customer selects the "Register" option, enters personal details, and submits the application for approval.
3. **Customer Waits for Application Processing**: A confirmation message appears, informing the customer that the application is under review.

4. **Customer Logs into the System**: Once approved, the customer logs in using their registered credentials.
5. **Customer Accesses Dashboard**: After logging in, the customer is redirected to the dashboard, where account details, transaction history, and quick access options are available.
6. **Customer Initiates a Fund Transfer**: The customer selects the "Transaction Dashboard", enters recipient details, transaction amount, and submits the transfer.
7. **Customer Receives Transfer Confirmation**: The system confirms the transaction, and the balance updates accordingly.
8. **Customer Applies for a Loan**: The customer navigates to the "Loan Management Dashboard", fills in loan details, and submits the application.
9. **Customer Views Profile & Past Statements**: The customer accesses the profile section to check transaction history, download statements, or update account settings.
10. **Customer Seeks Support (If Needed)**: The customer visits the "Support & Contact Us" section for FAQs or assistance.
11. **Customer Logs Out**: After completing banking activities, the customer securely logs out.

2. UI Design Modeling

2.1 UI Requirements

- **Branding**: Blue and white theme for trust and professionalism.
- **Navigation**: Intuitive sidebar for quick access to key features.
- **Accessibility**: Large buttons, clear fonts, and proper contrast for readability.

2.2 Wireframes for Key Screens

1. **Homepage:**
    - A welcoming screen with options to **Login** or **Register**.
    - Clean and modern layout with bank branding and an informational footer.
2. **Registration Page:**
    - Fields for **name, email, password, and account type selection**.

- A confirmation message stating that the **application is under review**.

3. **Login Page:**
    - Input fields for **username and password**.
    - A "Forgot Password" link for password recovery.
4. **Dashboard:**
    - Displays **account balance, quick actions, and recent transactions**.
    - Quick access buttons for **fund transfers and loan management**.
5. **Fund Transfer Page (Transaction Dashboard):**
    - A form where users select a recipient, enter the amount, and submit transactions.
    - A confirmation message upon successful transfer.
6. **Loan Management Dashboard:**
    - A user-friendly interface to apply for loans.
    - Fields for **loan amount, tenure, and interest rates**.
    - Displays **loan approval status**.
7. **User Profile & Statements:**
    - A profile section displaying **personal details, account settings, and past statements**.
    - Users can download **transaction statements**.
8. **Support & Contact Us:**
    - Users can access **FAQs, support tickets, and customer care contacts**.
    - A feedback form for user inquiries.

2.3 Descriptions of Website UI Designs

1. **Homepage**: Displays a login and registration option, along with bank branding and an informative footer.
2. **Registration Page**: Users enter their details to create an account. A confirmation message is displayed stating that the application is under review.
3. **Login Page**: Provides fields for username and password, along with a "Forgot Password" link.

4. **Dashboard**: Displays account details, recent transactions, and options to transfer funds or apply for loans.
5. **Fund Transfer Page**: Allows users to select a recipient, enter the transfer amount, and confirm the transaction.
6. **Loan Management Dashboard**: Users can apply for loans by entering the required amount and selecting repayment terms.
7. **User Profile Page**: Displays account details, transaction history, and an option to download statements.
8. **Support & Contact Us Page**: Provides users with access to FAQs, support tickets, and customer service contact details.
9. **Logout**: Users can securely log out of their account.

2.4 Interaction Design

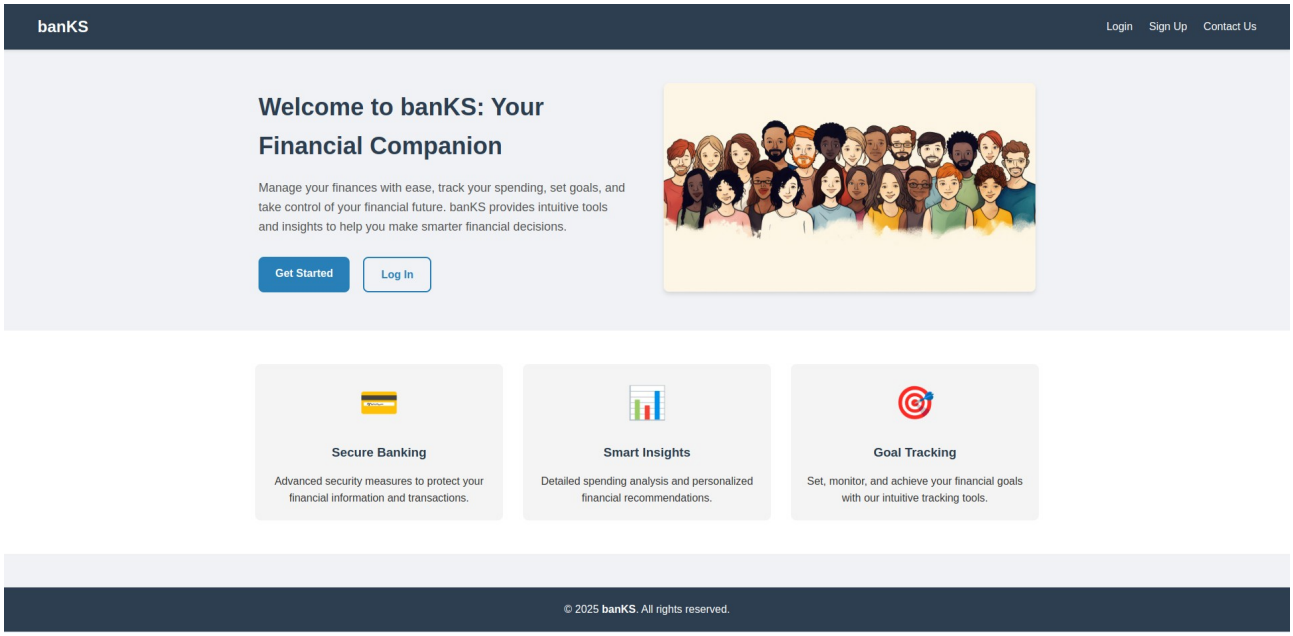
- **Buttons:** "Register", "Login", "Transfer", "Apply for Loan", "View Statements" with hover effects.
- **Form Validations:** Real-time error messages for invalid input.
- **Navigation Flow:** Smooth transitions between screens.

2.5 Prototyping & Testing

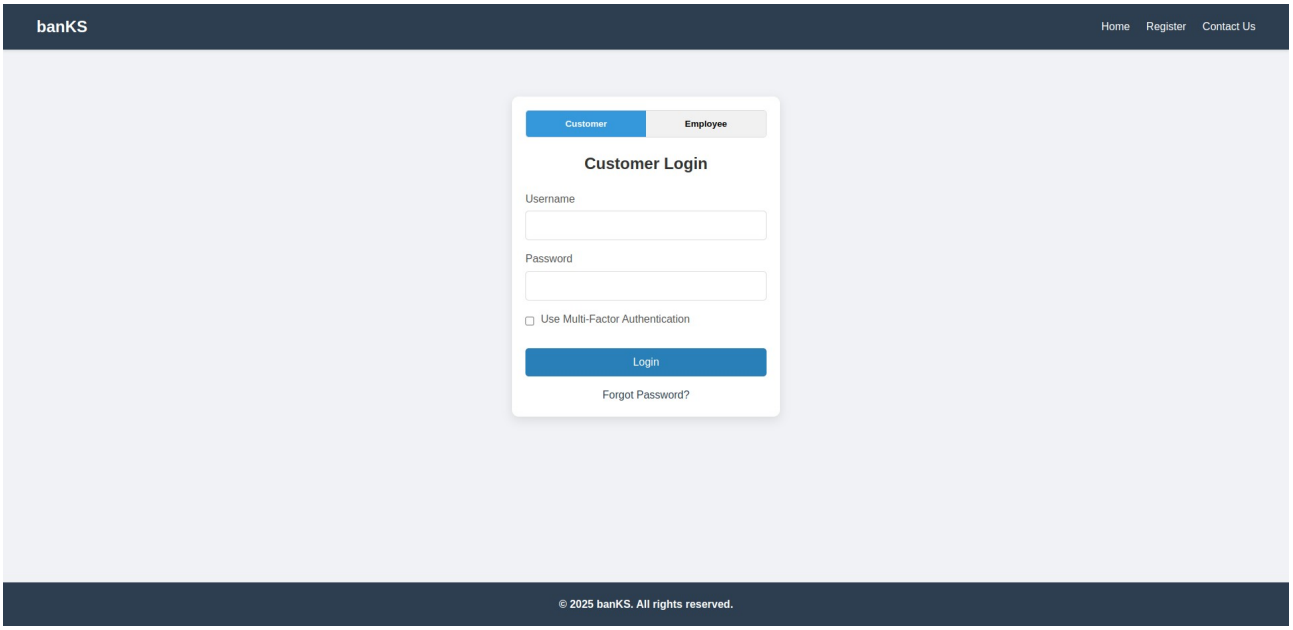
- **Interactive Prototype**: Designed in Figma and made with HTML,CSS, JS,REACT.
- **User Testing**: Test with 5 users for feedback on ease of navigation.
- **Final Adjustments**: Modify UI based on usability feedback.

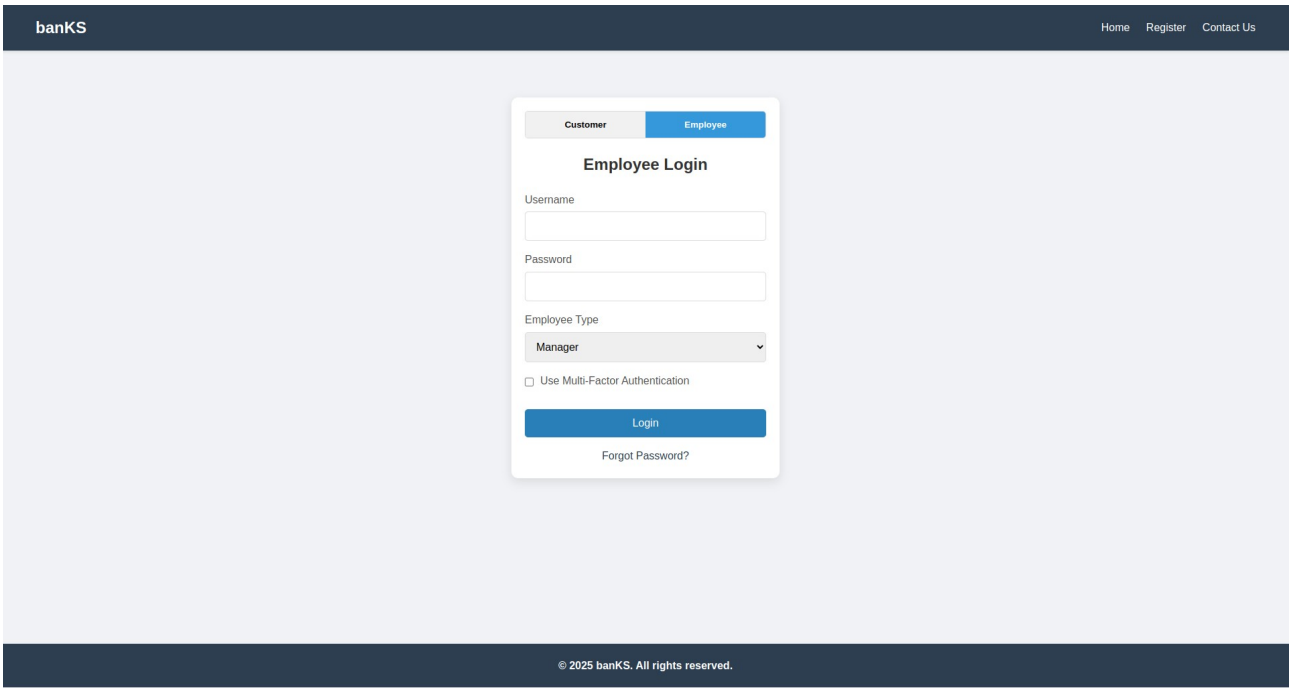
3. UI Design using website screenshots:

1) Hompage



2) Login (provides two option : login as a customer or an employee)




banKS
Home
Register
Contact Us
Customer
Employee
Employee Login
Username
Password
Employee Type
Manager
Use Multi-Factor Authentication
Login
Forgot Password?
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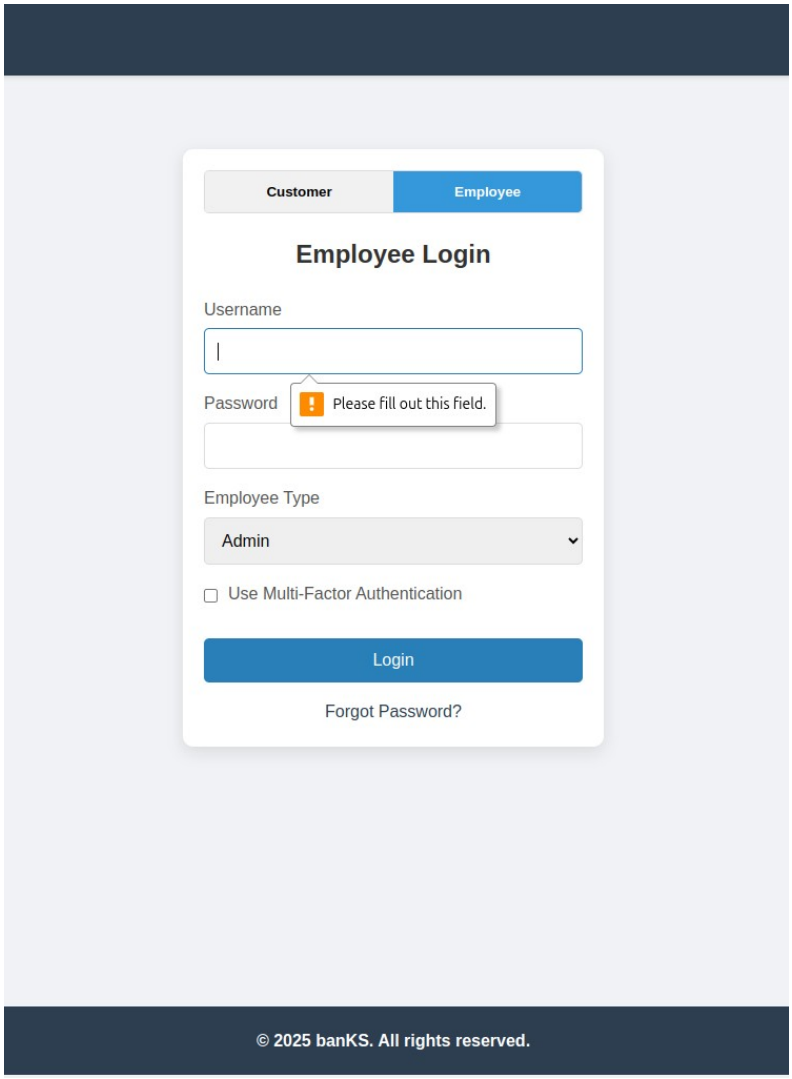
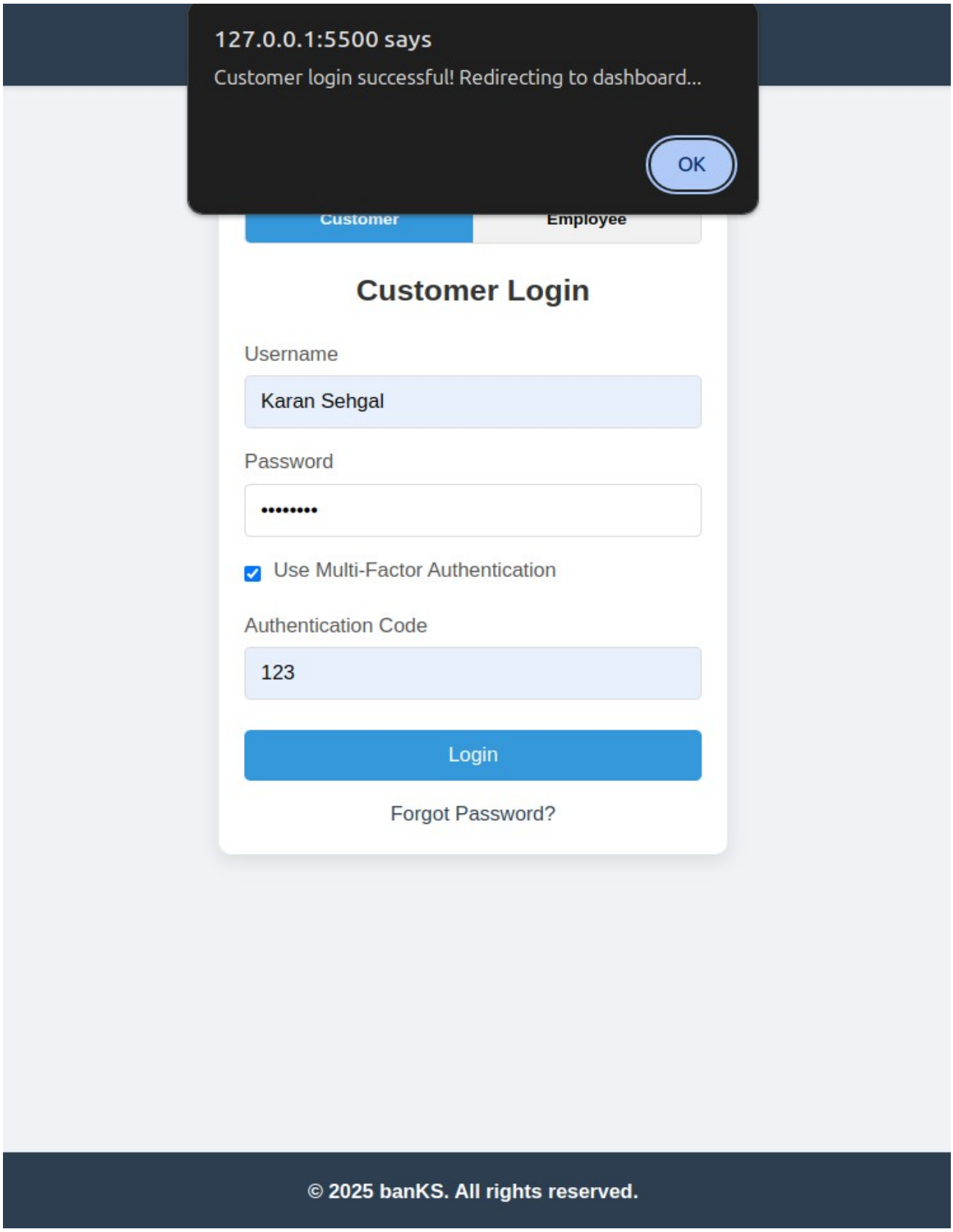
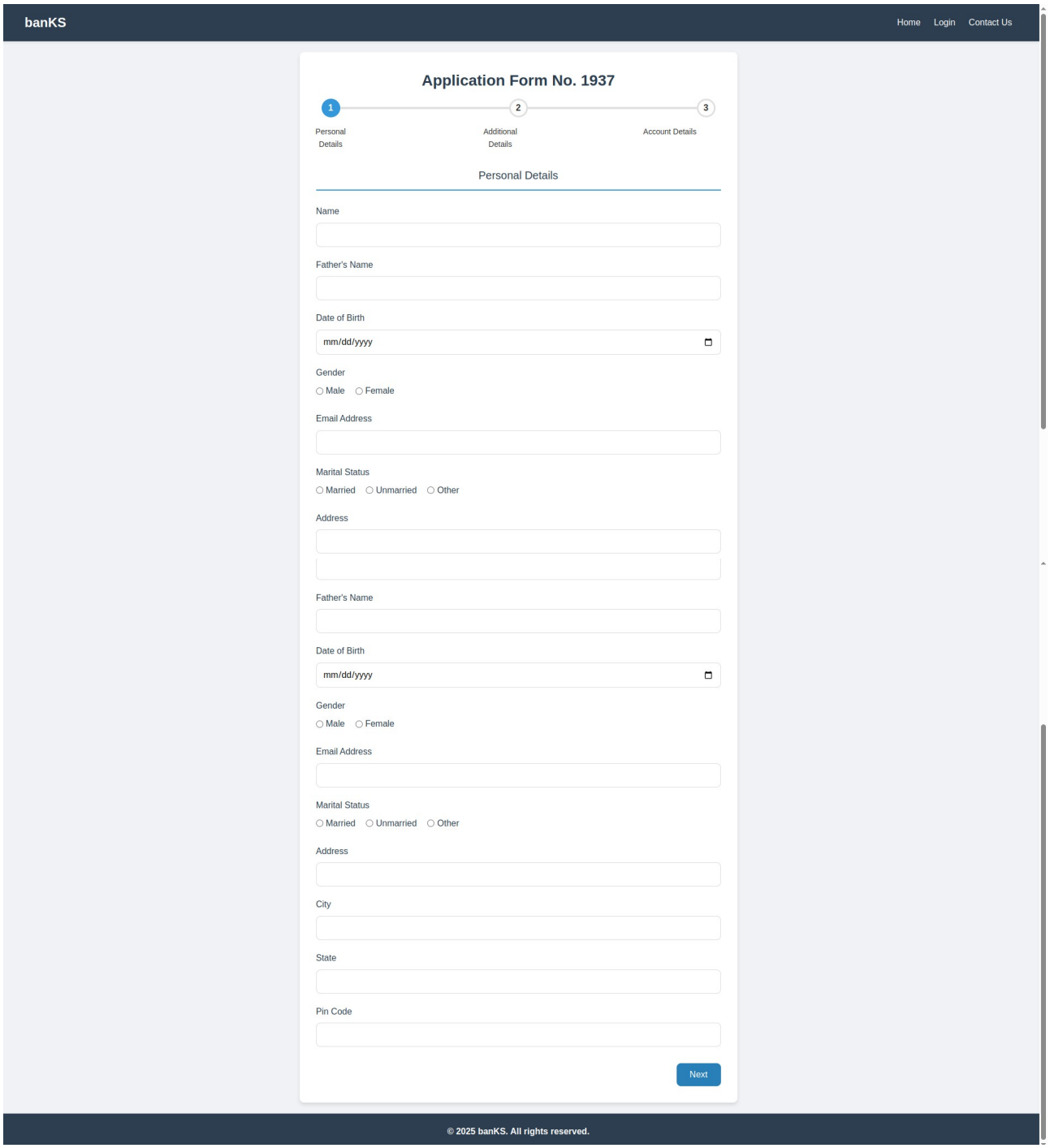

Customer
Employee
Employee Login
Username
Password
Please fill out this field.
Employee Type
Admin
Use Multi-Factor Authentication
Login
Forgot Password?
© 2025 banKS. All rights reserved.

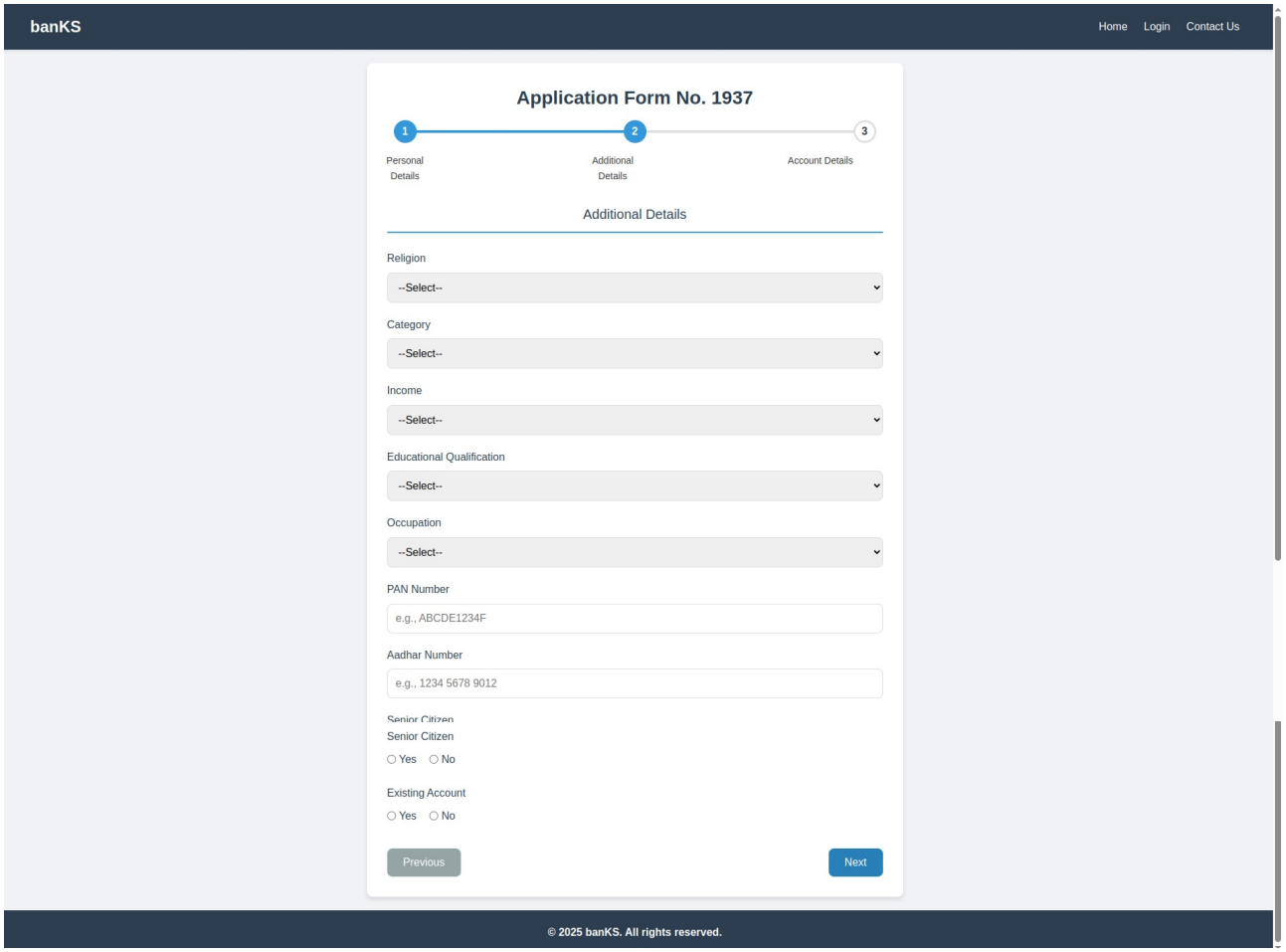

127.0.0.1:5500 says
Customer login successful! Redirecting to dashboard...
OK
Customer
Employee
Customer Login
Username
Karan Sehgal
Password
Use Multi-Factor Authentication
Authentication Code
123
Login
Forgot Password?
© 2025 banKS. All rights reserved.

3) Register as a new user :

page1



page 2


banKS
Home
Login
Contact Us
Application Form No. 1937
1
2
3
Personal Details
Additional Details
Account Details
Additional Details
Religion
--Select--
Category
--Select--
Income
--Select--
Educational Qualification
--Select--
Occupation
--Select--
PAN Number
e.g., ABCDE1234F
Aadhar Number
e.g., 1234 5678 9012
Senior Citizen
Senior Citizen
Yes
No
Existing Account
Yes
No
Previous
Next
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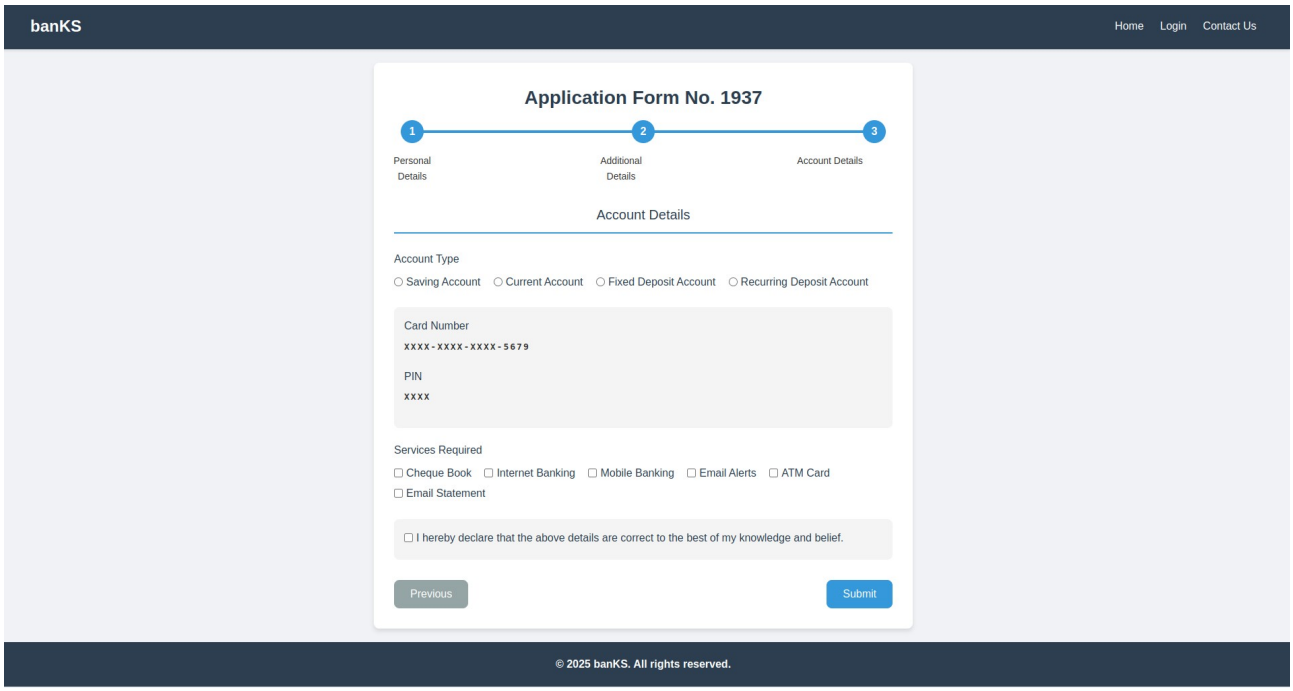
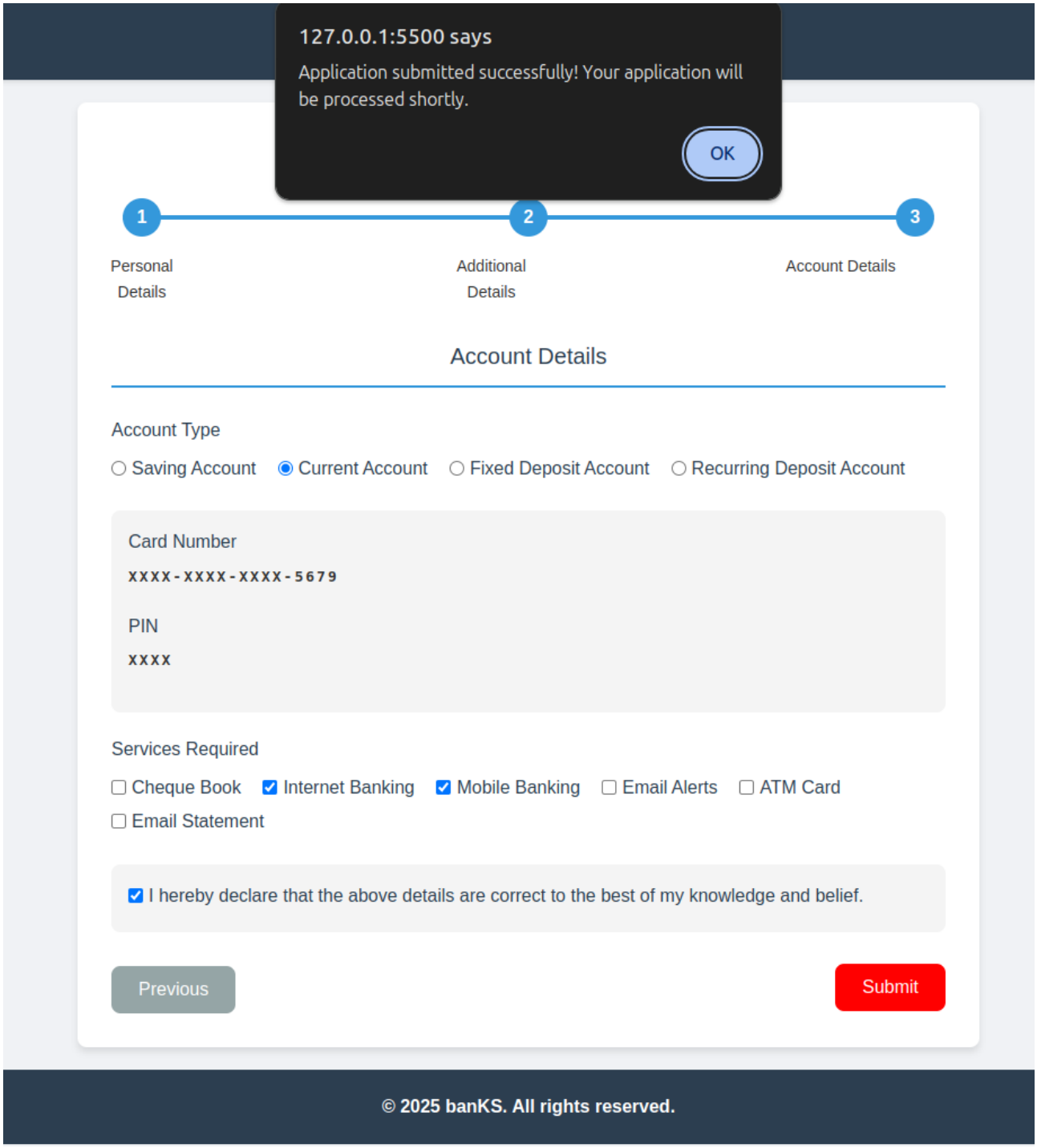
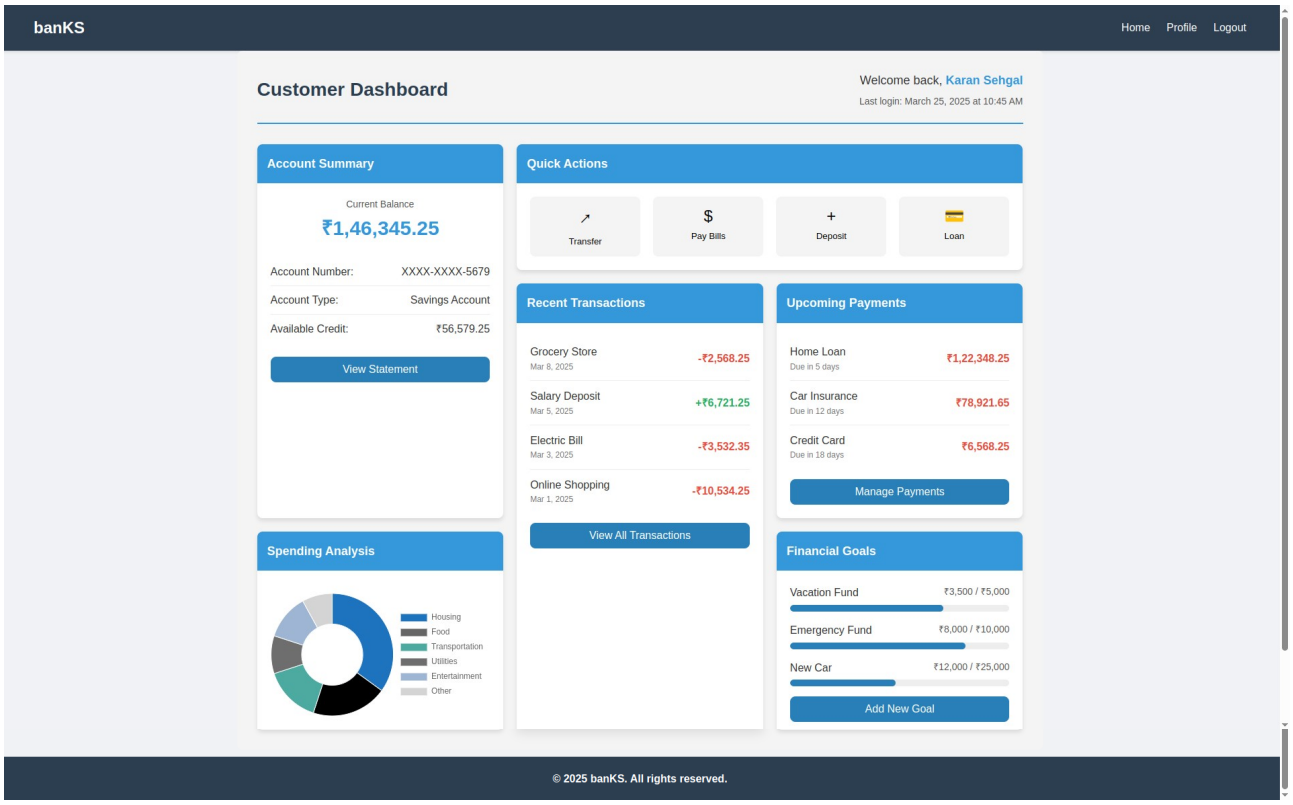
page 3


banKS
Home
Login
Contact Us
Application Form No. 1937
1
2
3
Personal Details
Additional Details
Account Details
Account Details
Account Type
Saving Account
Current Account
Fixed Deposit Account
Recurring Deposit Account
Card Number
XXXX-XXXX-XXXX-5679
PIN
XXXX
Services Required
Cheque Book
Internet Banking
Mobile Banking
Email Alerts
ATM Card
Email Statement
I hereby declare that the above details are correct to the best of my knowledge and belief.
Previous
Submit
© 2025 banKS. All rights reserved.

Waiting for application being processed, *user is directed to homepage*



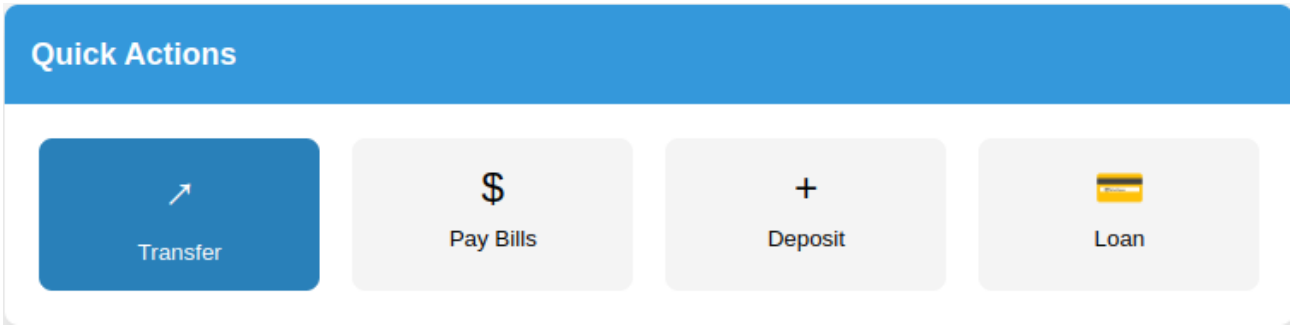
4) Once a user logins in successfully, He/she lands at the *customer dashboard*:



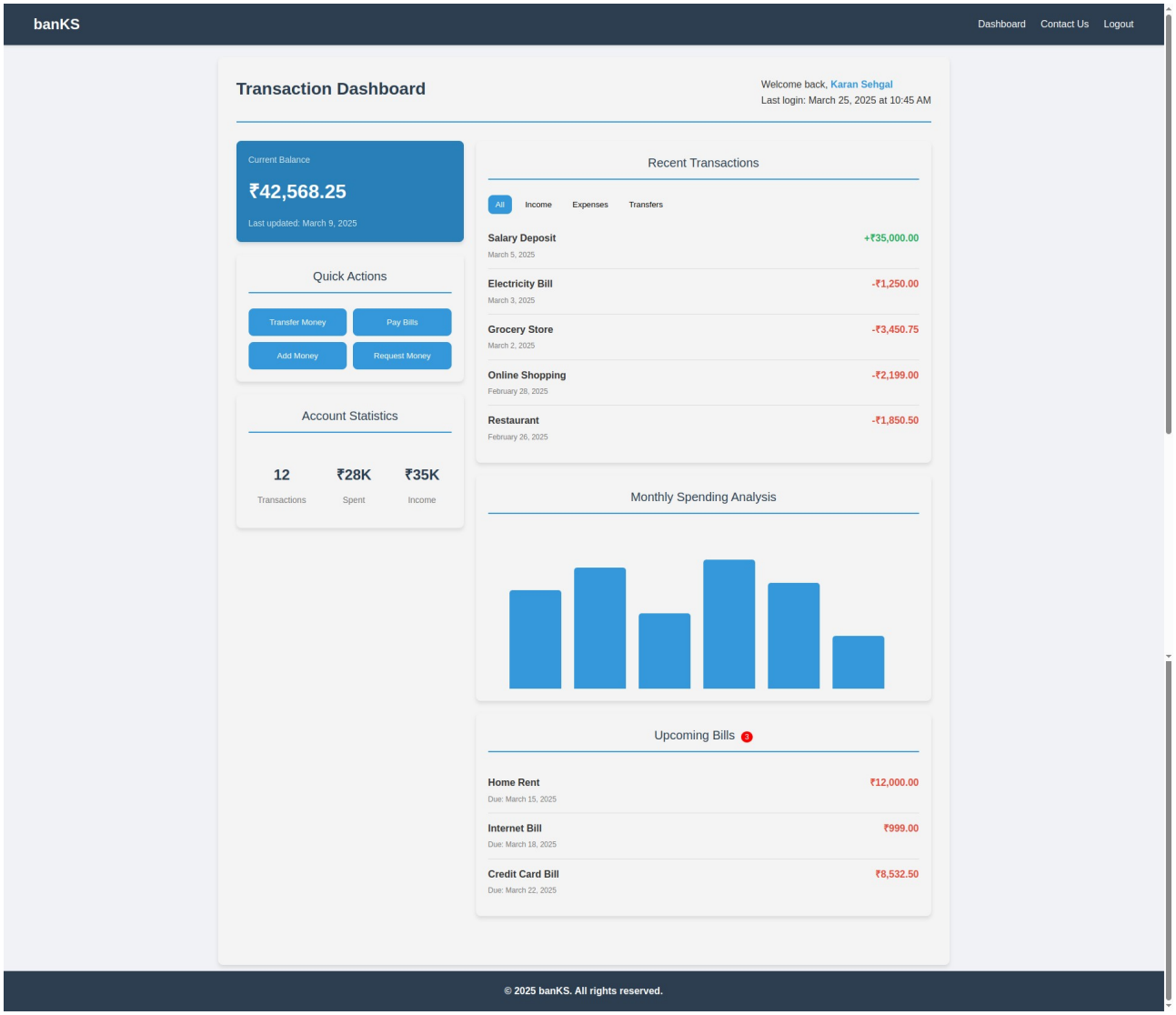
This pane allows user to access one of many functionalities :

transfer → *Transaction Management Dashboard*

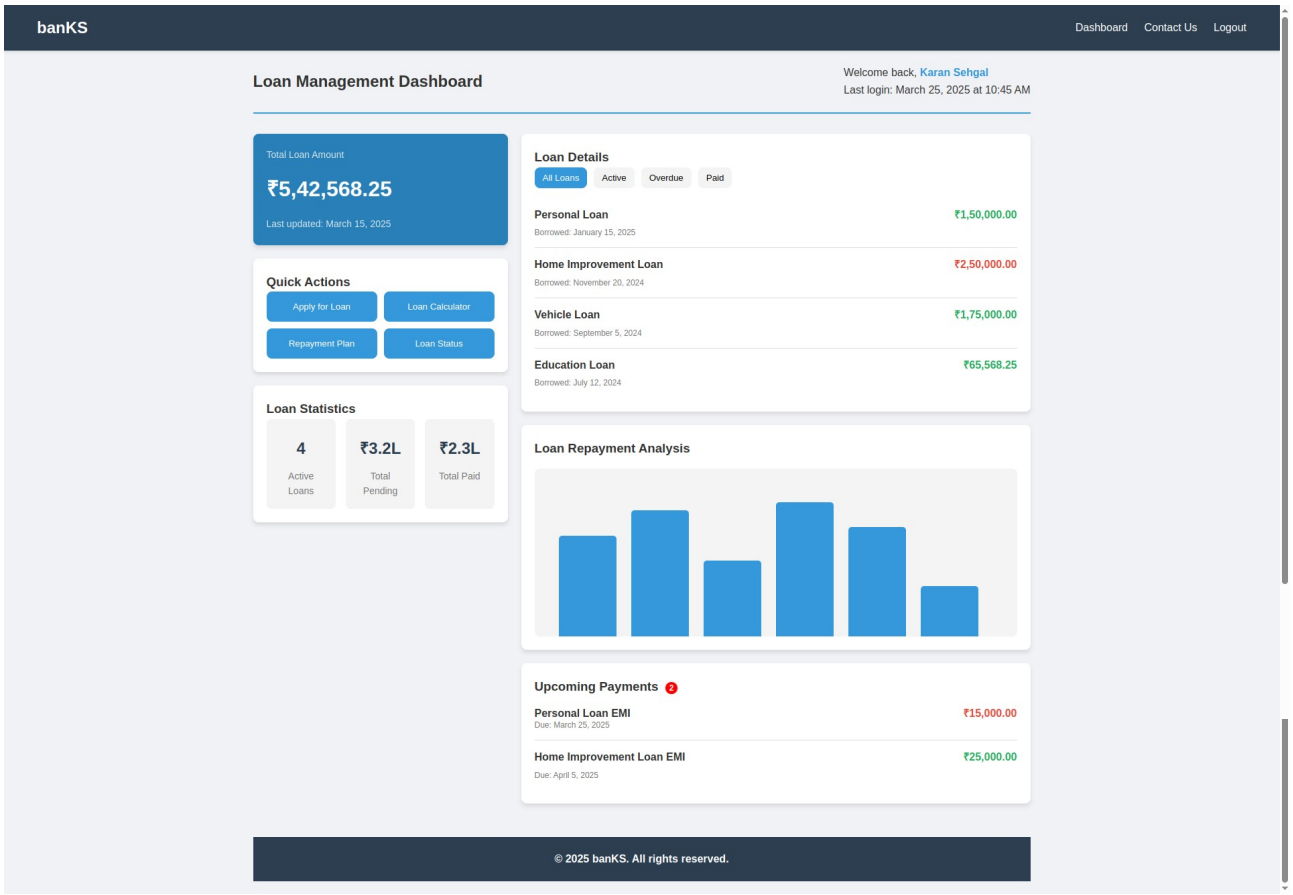
Loan → *Loan Management Dashboard*

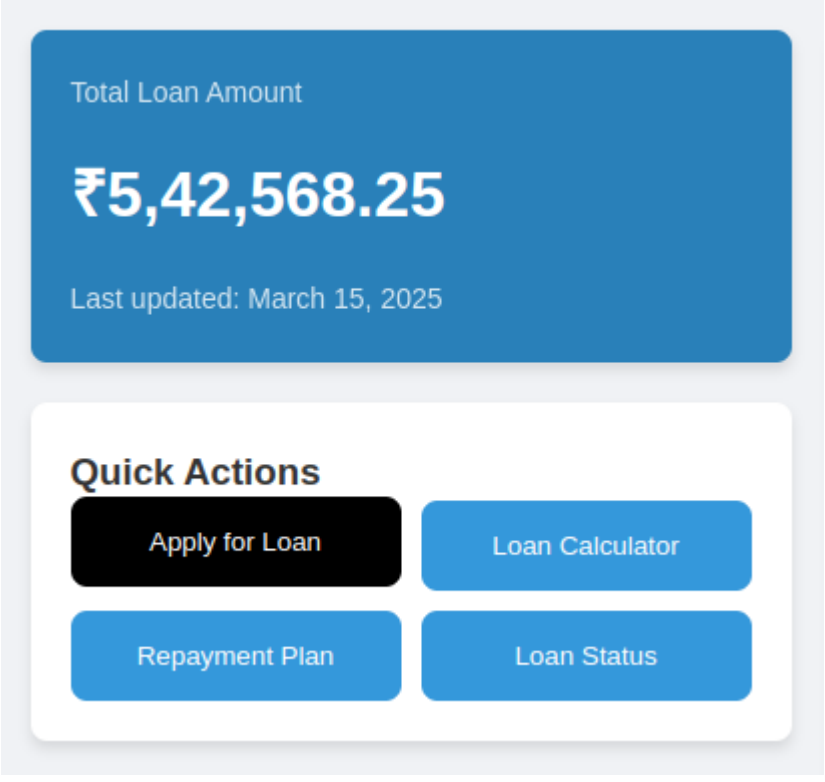


Transaction Management Dashboard:

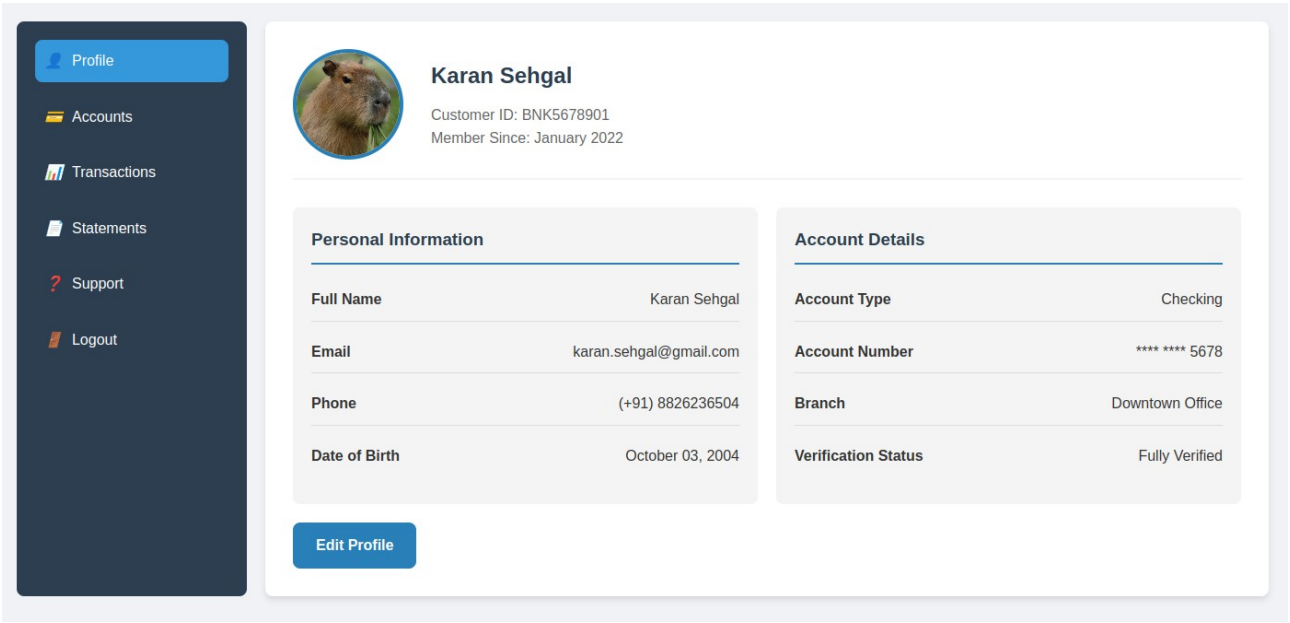


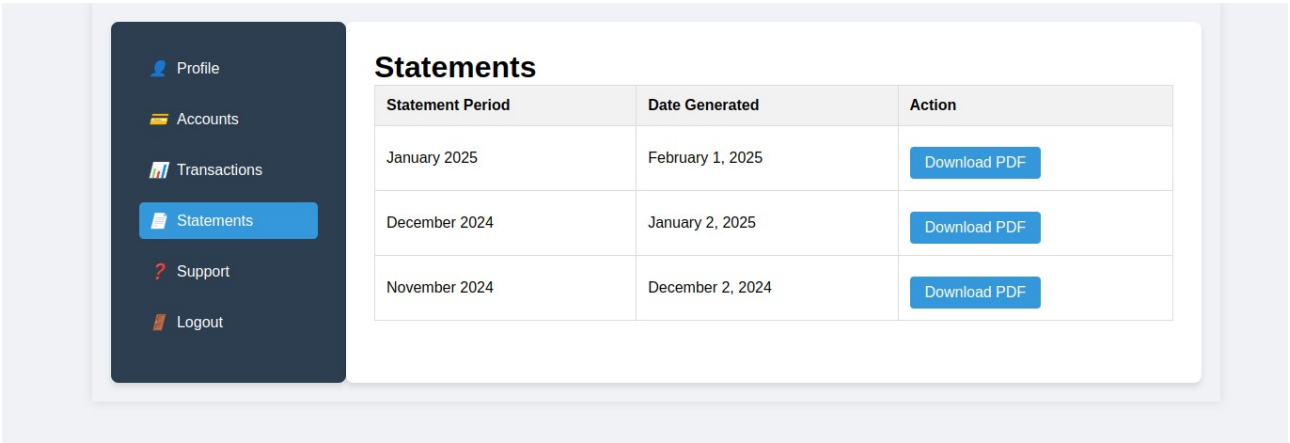
Loan Management Dashboard:

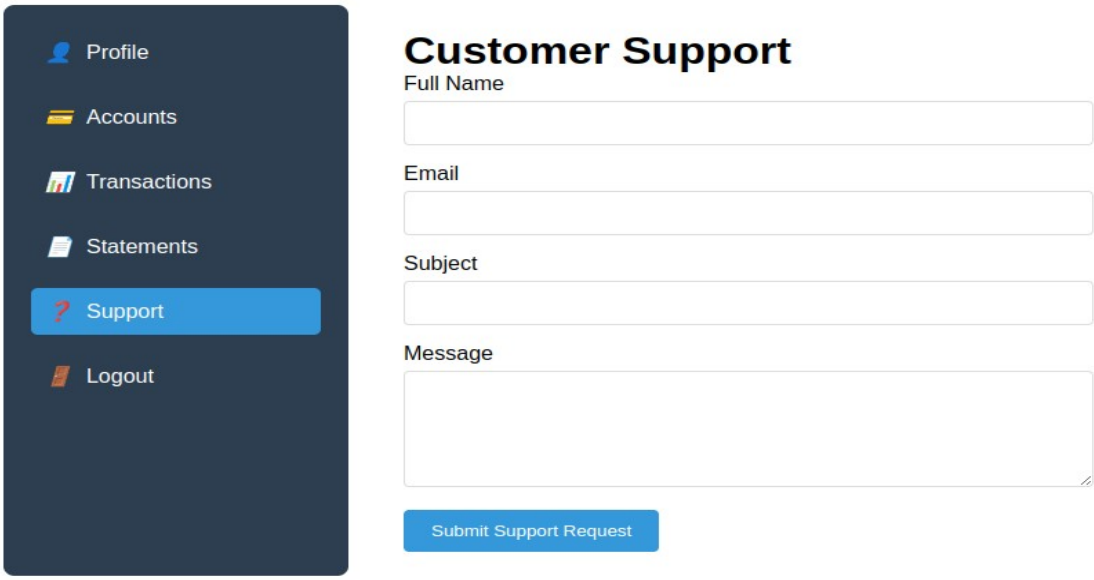




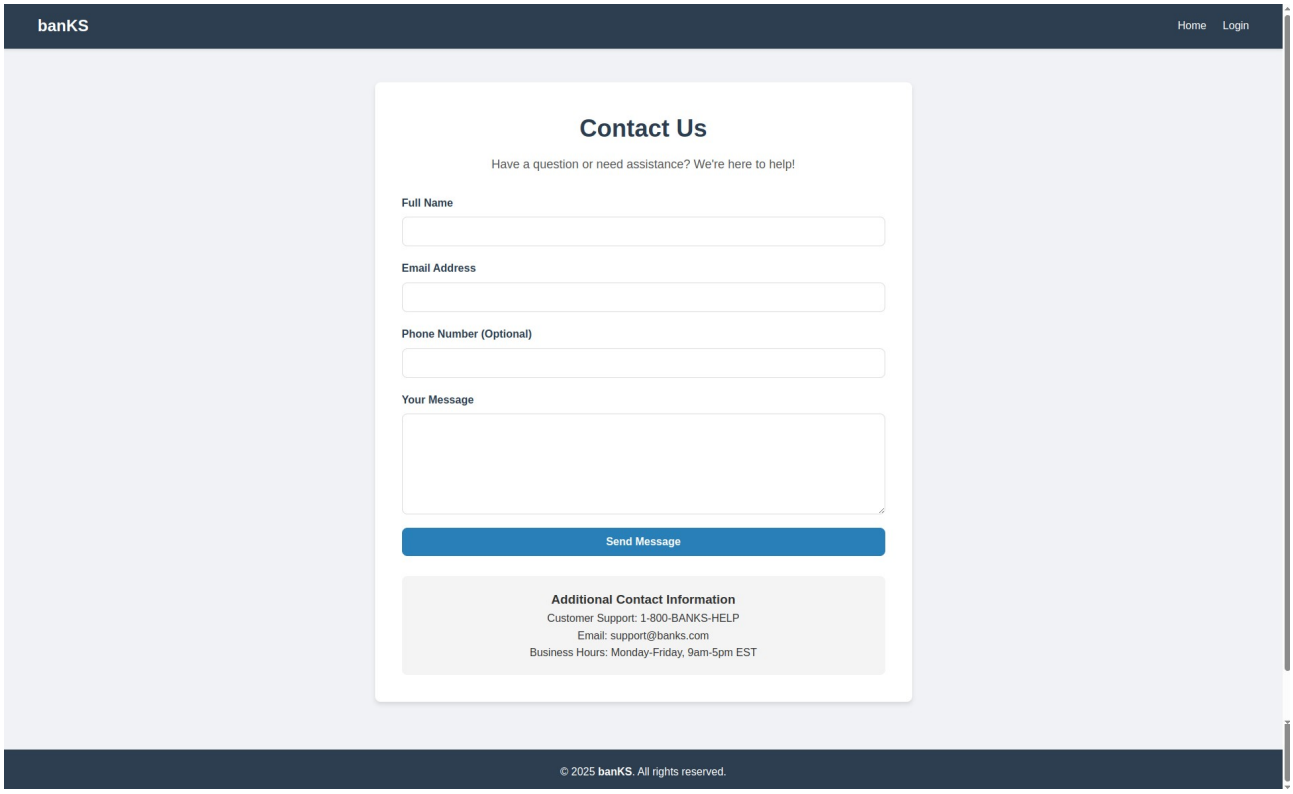
Profile


Profile
Accounts
Transactions
Statements
Support
Logout
Karan Sehgal
Customer ID: BNK5678901
Member Since: January 2022
Personal Information
Full Name
Karan Sehgal
Email
karan.sehgal@gmail.com
Phone
(+91) 8826236504
Date of Birth
October 03, 2004
Account Details
Account Type
Checking
Account Number
**** **** 5678
Branch
Downtown Office
Verification Status
Fully Verified
Edit Profile

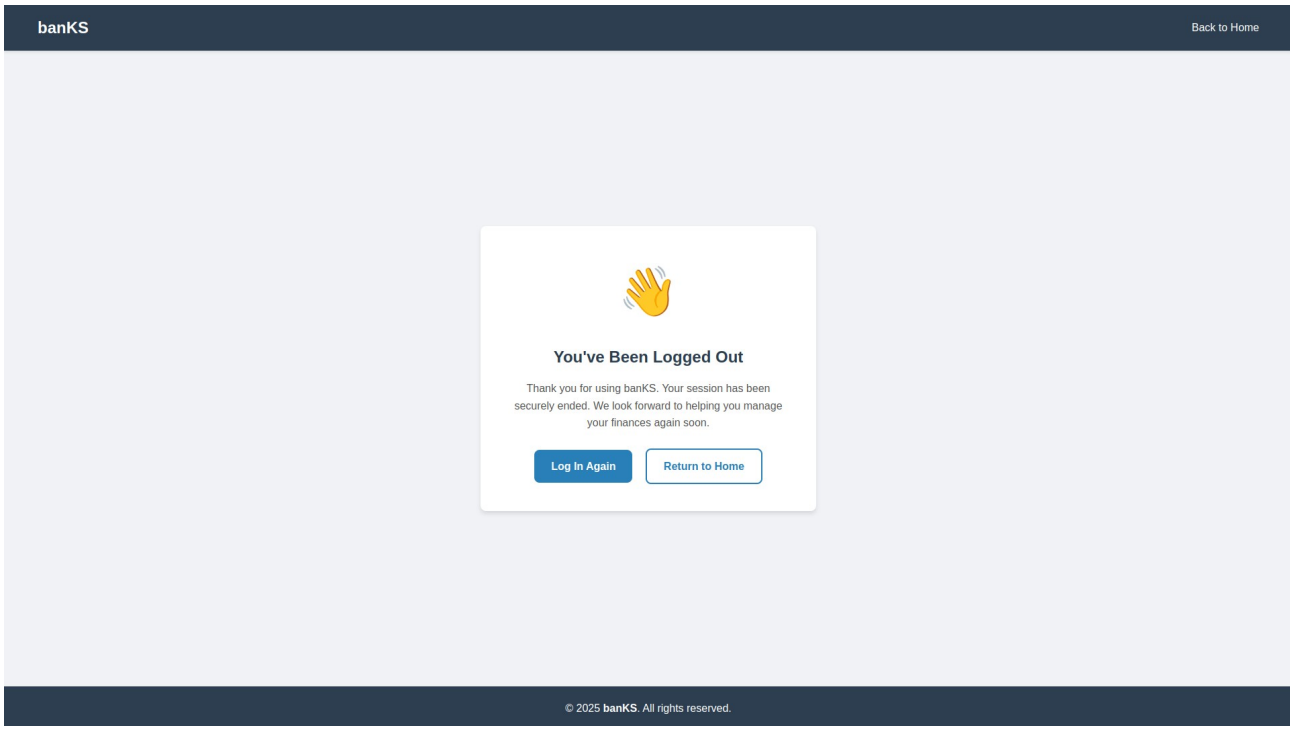

Profile
Accounts
Transactions
Statements
Support
Logout
Statements
Statement Period
Date Generated
Action
January 2025
February 1, 2025
Download PDF
December 2024
January 2, 2025
Download PDF
November 2024
December 2, 2024
Download PDF


Profile
Accounts
Transactions
Statements
Support
Logout
Customer Support
Full Name
Email
Subject
Message
Submit Support Request

ContactUs



LogOut:



Github Link : *https://github.com/Karansehgal0611/banKS*

4. Conclusion

The **Online Bank Management System (banKS)** UI is designed to provide an intuitive and seamless user experience. The storyboarding outlines the user journeys, and the UI design ensures usability, accessibility, and security. Prototyping and user feedback further refine the interface before development.