

INTRODUCTION

Overview

The **Banking Management System (FinTrust Bank)** is an advanced web-based application developed to provide a seamless digital banking experience. Designed with a focus on security, efficiency, and user-friendliness, this system enables customers to manage their financial activities effortlessly.

Project Aim

The goal of this project is to digitalize banking operations while maintaining security, transparency, and efficiency. It aims to provide users with an easy-to-use platform for managing their banking transactions while giving administrators full control over the banking ecosystem.

Objectives

- To create a secure, user-friendly online banking system.
- To allow customers to open accounts and access banking services efficiently.
- To facilitate seamless fund transfers using account numbers.
- To ensure all transactions are recorded securely for auditing and transparency.
- To enable administrators to manage user accounts and transactions effectively.
- To implement strong authentication mechanisms to prevent unauthorized access.

Purpose

This system is designed to simplify banking operations for both customers and administrators. It enhances traditional banking processes by integrating digital transaction management, automated record-keeping, and real-time account monitoring. The system ensures secure transactions while reducing manual errors and operational delays.

Features

User Features:

- Open a new bank account
- Register and join net banking
- Transfer funds securely
- View personal banking details
- Check account balance
- Track transaction history

Admin Features:

- Approve or deactivate user accounts
- Monitor and authorize transactions
- View all users' financial activities
- Maintain overall banking system security

System Design

The **System Design** phase marks the initiation of the development process by establishing the foundational elements required to define the structure of a device, procedure, or system in sufficient detail, ensuring that it can be successfully brought to life in the physical realm. This phase plays a critical role in laying the groundwork for the entire system development lifecycle, providing a clear roadmap for how the final product will be constructed, implemented, and maintained.

After the analysis and specification of software requirements have been completed, the software design phase takes over. This phase encompasses these fundamental technical activities: design, coding, implementation, and testing. These activities are not only necessary for constructing the software but also for verifying its functionality to ensure that it fully aligns with the predefined specifications and meets the project's goals. Each of these stages is interconnected, with the design phase setting the stage for the subsequent phases of coding, implementation, and testing.

During the design phase, design activities take precedence because they involve critical decision-making processes that directly influence both the successful implementation and long-term maintenance of the software. These decisions have far-reaching consequences, as they greatly impact the system's reliability, performance, and overall sustainability. The choices made during this stage determine how well the software will function in real-world scenarios and how easily it can be updated or modified in the future. In essence, the design phase acts as the bridge between the initial concept (as defined in the requirements phase) and the final product, ensuring that customer needs and expectations are accurately translated into a tangible, working software solution. This makes the design phase crucial not only for the technical success of the project but also for achieving high levels of customer satisfaction and ensuring the overall success of the project.

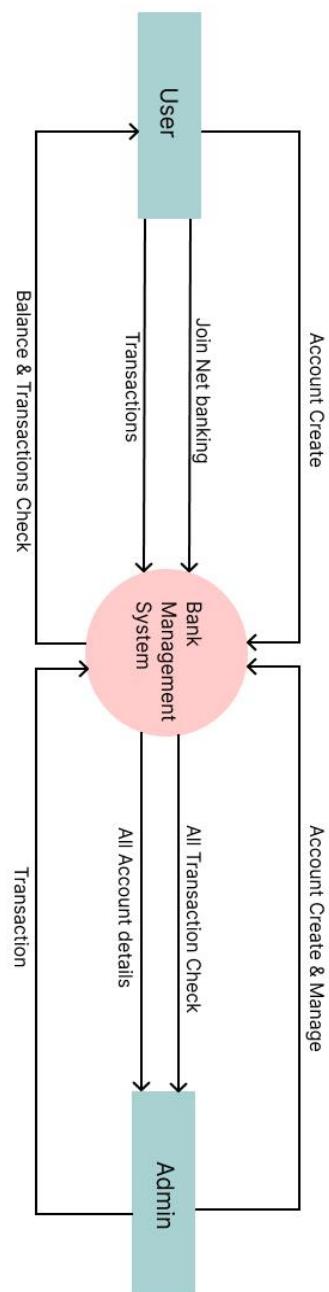
D.F.D (Data Flow Diagram)

Moreover, design serves as the crucible in which the development quality is nurtured. It is the point where raw requirements and conceptual ideas are transformed into concrete software representations, shaping the entire project's direction and flow. This transformation occurs in two distinct phases: the initial design stage and the subsequent phases that further refine the software architecture.

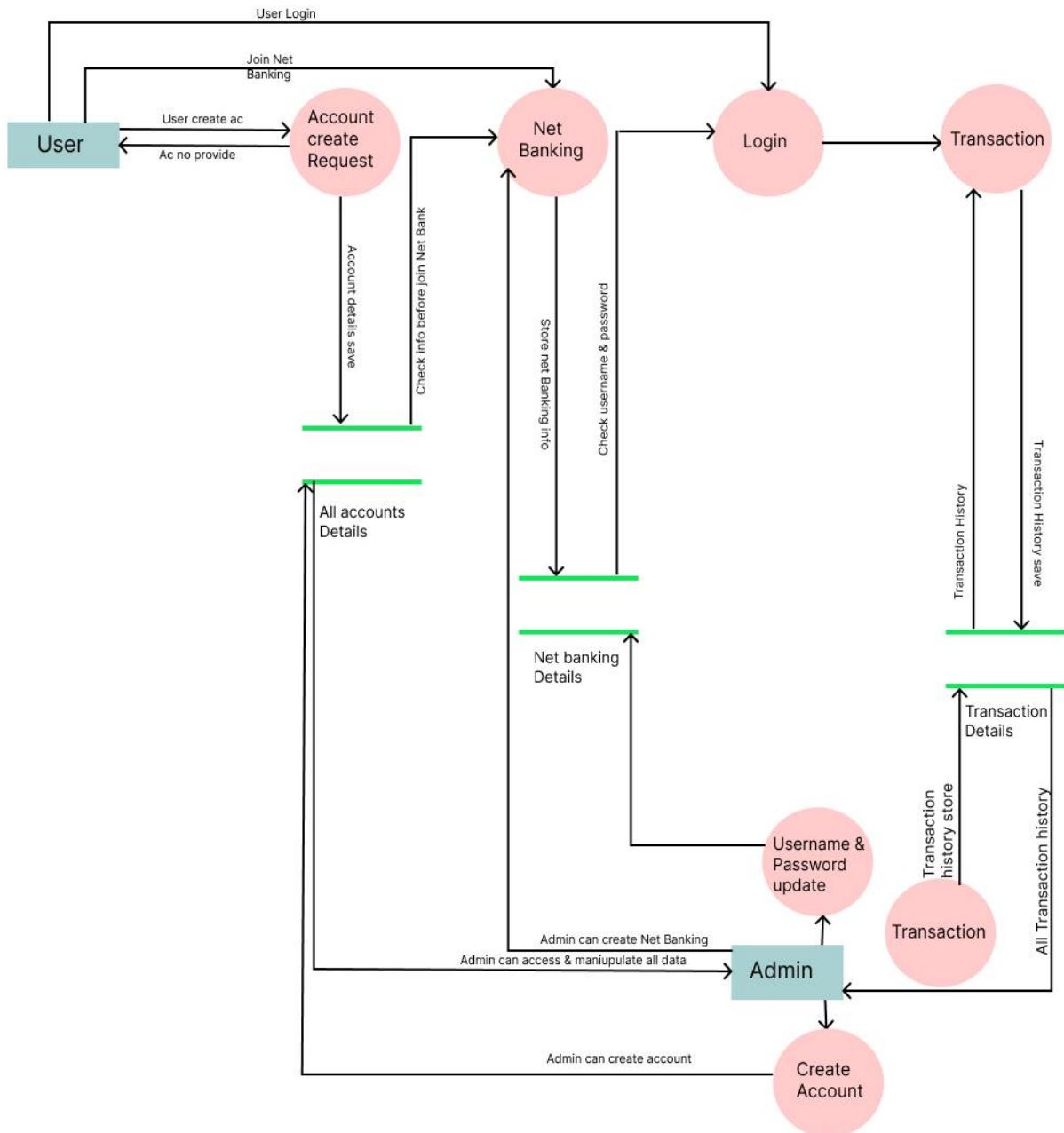
In the first phase, the initial design focuses on translating the high-level requirements into structured data and defining the basic architecture of the system. This stage includes determining key components, their relationships, and the overall structure of the software. It is an essential part of ensuring that the software will be scalable, efficient, and capable of handling future needs. The initial design phase sets the stage for detailed planning, which allows for smoother transitions into coding, testing, and implementation phases.

By setting up this strong foundation, the system design phase is critical to ensuring that the software is not only functional but also sustainable, adaptable, and aligned with the needs of the customer. The decisions made here will affect the software's overall quality, the ease of future maintenance, and the efficiency with which the software can evolve as requirements change over time.

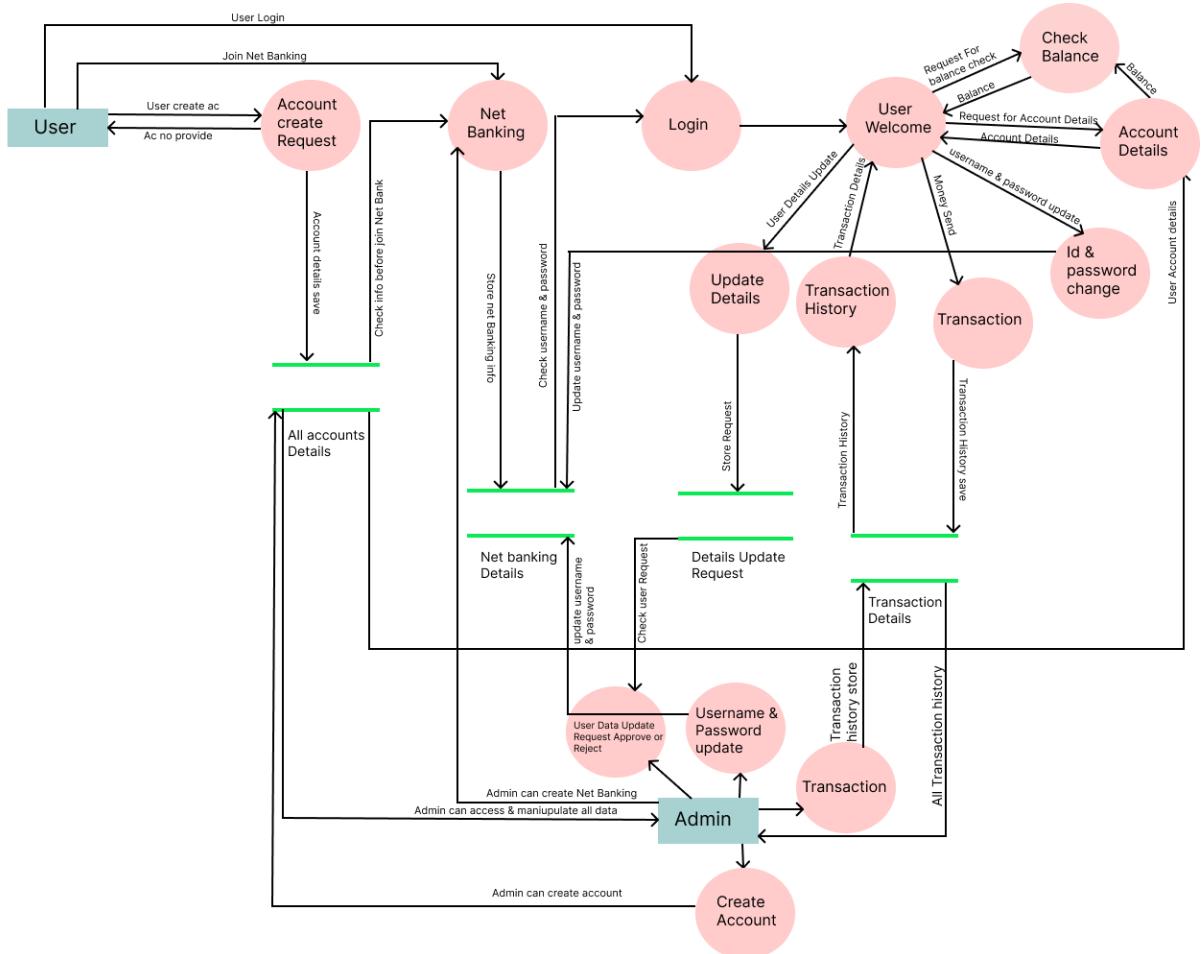
Level 0



Level 1



Level 2

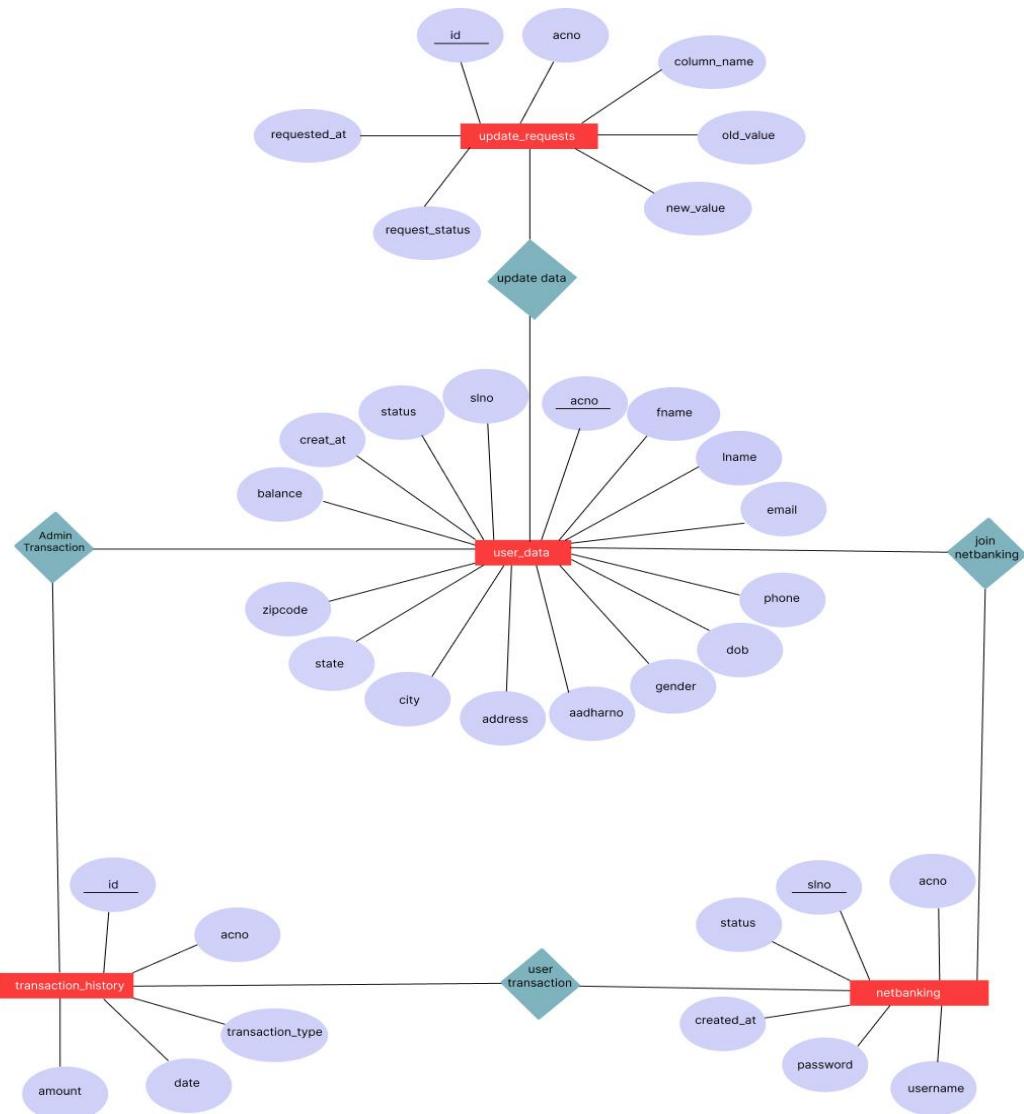


ER-Diagram

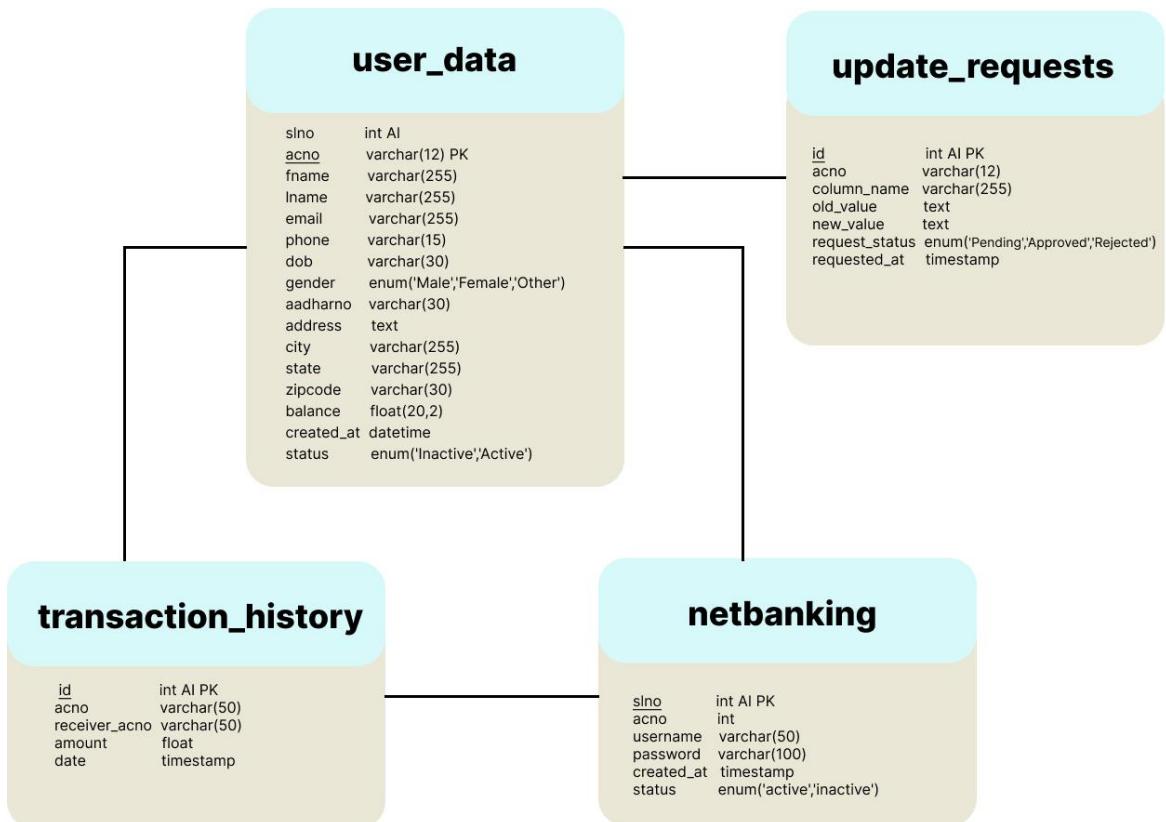
The ER model is a popular high-level conceptual data model. This model and its variations are widely used in the conceptual design of database applications, and many database design tools use that concept. The database corresponding to the ER diagram can be represented by a collection of tables in the relational System. The mapping of the ER diagram to the entity is as follows:

- Attributes
- Relationship

ER-Diagram of Bank management



SQL Tables



SOFTWARE REQUIREMENT AND SPECIFICATION

Introduction:

This section comprises the Software Requirements Specification (SRS) for the Bank Management System. The SRS delineates the software's intended functionality and performance expectations, tailored to meet the needs of all the users, and the clients.

Requirement Analysis:

Requirement Analysis serves as the foundational phase of software development. It involves:

- **Requirement Research:** Investigating to clarify the issues addressed by the automated framework.
- **Problem Comprehension or Review:** Understanding the context of the issues and defining specifications for the proposed solution. The goal is to ensure that the fundamental aspects of the issues are understood and articulated in the requirement specification document. This includes defining technical and performance specifications, including formats for inputs and outputs.

SPECIFICATION REQUIREMENT

External Interface Requirement:

The interface should prioritize simplicity and ease of use for consumers, offering an impressive experience. For both users and administrators, the system should seamlessly guide them through the authentication process, ensuring secure access to the program with appropriate feedback mechanisms.

User Interface:

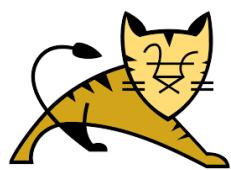
The Bank Management System offer a user-friendly graphical interface accessible to both user and administrators. This interface streamlines essential tasks such as managing Transaction and Transaction reports.

Hardware requirements:

1. Intel Core i5
2. 8GB RAM
3. 512GB N.V.M.E. SSD
4. 1920 X 1080px Resolution color display

Software requirements:

- ❖ Windows 10/11 OS
- ❖ Java
- ❖ Servlet
- ❖ JSP (Java Server Page)
- ❖ Html (Hyper Text Markup Language)
- ❖ CSS (Cascading Style Sheets)
- ❖ Java Script
- ❖ MySQL
- ❖ MySQL Connecter Jar
- ❖ Eclipse
- ❖ Apache-Tomcat -10.1.28
- ❖ VS Code (Visual Studio Code)
- ❖ Figma



Home Page Code :

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>FinTrust Bank</title>
    <link rel="icon" href="images\newLogo.JPG" type="image/jpg">
    <link rel="stylesheet" href="navBaarFooter.css">
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.0.0-beta3/css/all.min.css">
    <!-- Font Awesome link -->
<style>
    * {
        margin: 0;
        padding: 0;
        box-sizing: border-box;
    }

    body {
        font-family: 'Segoe UI', Tahoma, Geneva, Verdana, sans-serif;
        color: #333;
        overflow-y: scroll;
    }

    .hero {
        text-align: center;
        padding: 50px;
        position: relative;
        background-color: white;
        margin: 0;
    }

    .hero img {
        width: 100%;
        height: auto;
        display: block;
        background-color: white;
    }

    .hero .cta-button {
        display: inline-block;
        margin-top: -8px;
        padding: 10px 25px;
        font-size: 10px;
        font-weight: bold;
        color: black;
        background-color: white;
    }

```

```

        border: 2px solid black;
        border-radius: 50px;
        text-decoration: none;
        transition: background-color 0.3s, color 0.3s;
        position: relative;
        left: -406px;
    }
    .hero .cta-button:hover {
        background-color: black;
        color: white;
    }
    .services {
        text-align: center;
        padding: 50px;
        background-color: #e9f5ff;
    }

    .services img {
        width: 80%;
        max-width: 1000px;
    }
    .footer{
        position:static;
    }
    .head2 a{
        height:9vh;
    }

```

</style>

</head>

<body>

<div class="head2">

Home

Net Banking

Login

About Us

</div>

<div class="hero">

Create Account

</div>

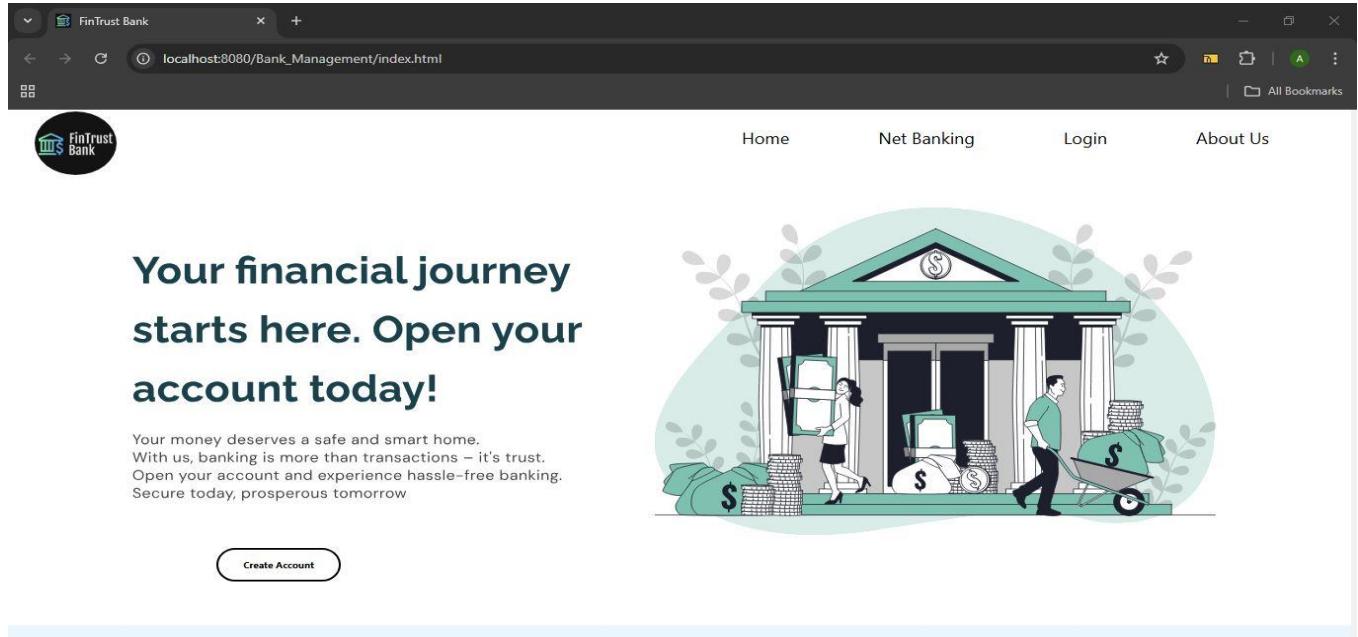
<div class="services">

</div>

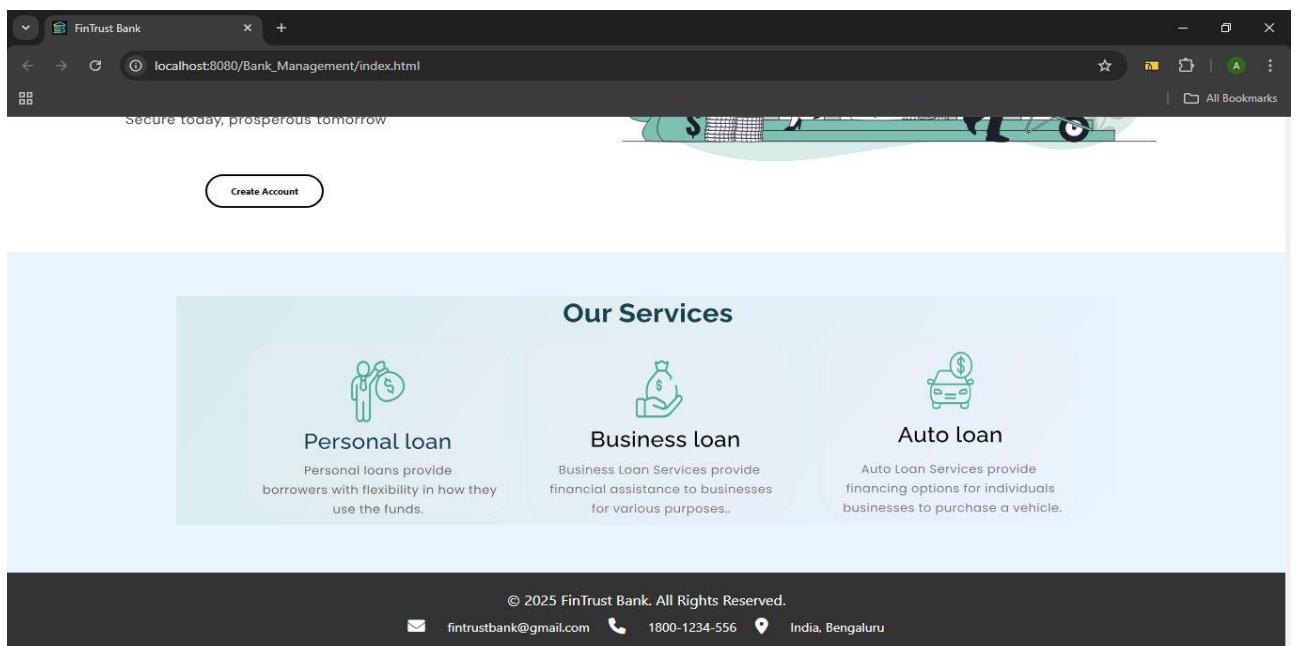
```
<div class="footer">
<p>&copy; 2025 FinTrust Bank. All Rights Reserved.</p>
<div class="contact-info">
<div>
<i class="email"></i>
<span>fintrustbank@gmail.com</span>
</div>
<div>
<!-- Changed to fa-phone (correct phone icon) -->
<i class="phone"></i>
<span>1800-1234-556</span>
</div>
<div>
<i class="location"></i>
<span>India, Bengaluru</span>
</div>
</div>
</div>
</body>
</html>
```

Website Overview

Home Page :



The screenshot shows a web browser window for 'FinTrust Bank' at 'localhost:8080/Bank_Management/index.html'. The page features a dark header with a logo, 'Home', 'Net Banking', 'Login', and 'About Us' links. Below the header is a large teal-colored illustration of a bank building with a classical facade, surrounded by greenery and a circular path. Two people are shown interacting with the bank: a woman carrying a briefcase and a man pushing a wheelbarrow filled with money bags. A large teal banner at the bottom left reads 'Your financial journey starts here. Open your account today!'. Below the banner is a small 'Create Account' button. The overall design is clean and professional.



This screenshot shows the same website layout as the previous one, but with a different banner message at the bottom left: 'Secure today, prosperous tomorrow'. The rest of the page, including the 'Our Services' section, remains identical to the first screenshot.

Create Account :

The screenshot shows the homepage of FinTrust Bank. At the top, there is a navigation bar with links for Home, Net Banking, Login, and About Us. Below the navigation is a large graphic of a bank building with a green roof and white columns, surrounded by greenery. In front of the bank, a woman holds a large green bag labeled with a dollar sign, and a man pushes a wheelbarrow filled with bags. To the left of the graphic, there is a promotional message: "Your financial journey starts here. Open your account today!" followed by a short paragraph about banking trust and prosperity. A "Create Account" button is located below the message. The URL in the browser address bar is "localhost:8080/Bank_Management/index.html".

The screenshot shows the "Create Your Account" page. At the top, there is a navigation bar with links for Home, Net Banking, and Login. Below the navigation is a large title "Create Your Account". On the left side, there is a form titled "Fill your data here" with fields for First Name, Last Name, Email, Phone, Date of Birth (with a date picker), Gender (with a dropdown menu showing "Male"), Aadhar No., and Address. On the right side, there is an illustration of a hand holding a stack of papers and documents, which are being inserted into a green filing cabinet. The URL in the browser address bar is "localhost:8080/Bank_Management/createAc.jsp".

Create Account

localhost:8080/Bank_Management/createAc.jsp

First Name:

Last Name:

Email:

Phone:

Date of Birth: Gender:

Aadhar No:

Address:

City: State: Zipcode:

Balance (Min 500):

Create Account

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Create Account

localhost:8080/Bank_Management/createAc.jsp

Fill your data here

First Name: Sahu

Last Name:

Email: 6375950788

Phone:

Date of Birth: Gender:

Aadhar No:

Address:

City: State: Zipcode:

Balance (Min 500):

Create Account

localhost:8080/Bank_Management/createAc.jsp

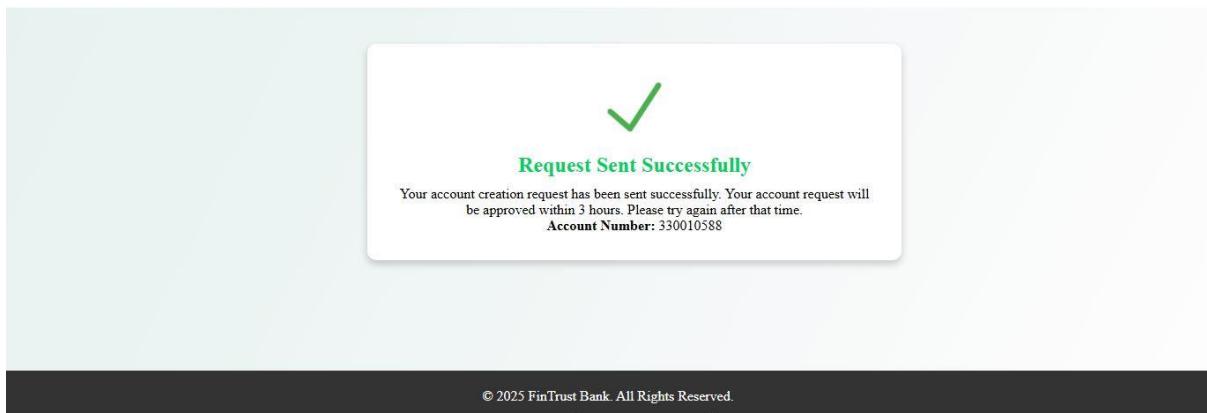


Home

Net Banking

Login

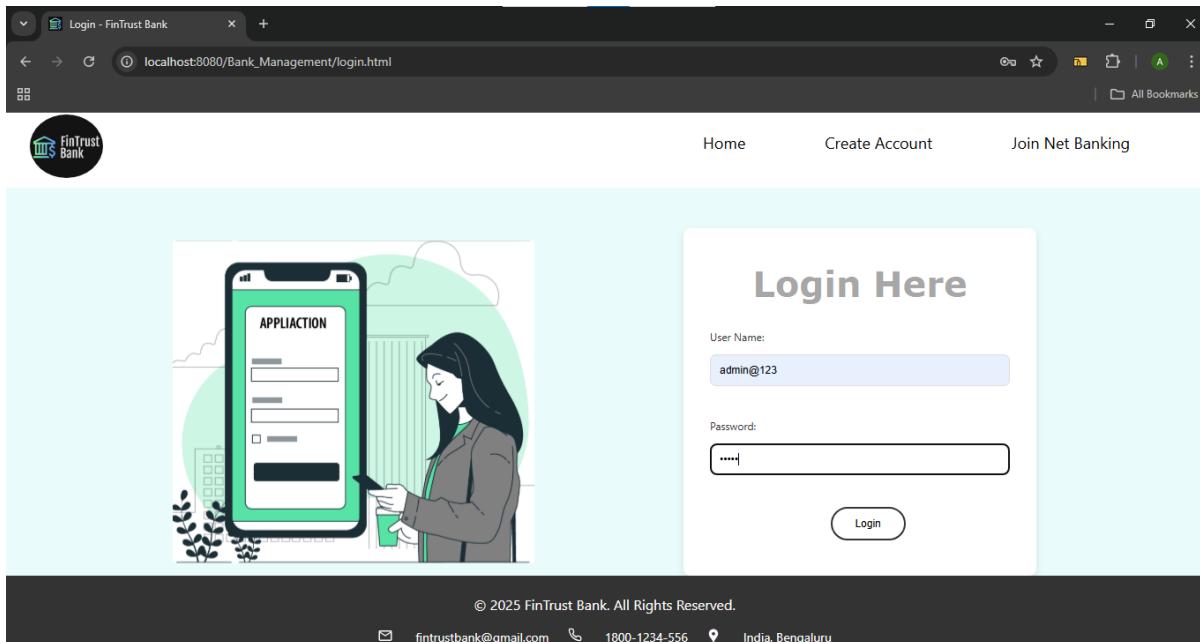
About Us



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✉ fintrustbank@gmail.com ☎ 1800-1234-556 ⌂ India, Bengaluru

Admin Accept User Account Request :



Hello Ankit
Welcome to FinTrust Bank Admin Page.

This is FinTrust Bank Admin Panel

Manage users, activate accounts, and oversee transactions efficiently.

Quick Actions

- Activate Pending Users
- View Transaction Logs
- Manage Bank Policies

⚠ Security Notice: Ensure all user verifications are completed before activation. Unauthorized access is strictly prohibited.

localhost:8080/Bank_Management/SortAcInAc.jsp
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Sl No	Account No	First Name	Last Name	Email	Phone	Status	Address	City	State	Zipcode	Aadhar No	Created At	Action
16	330010584	Murali	Sahu	murali998@gmail.com	8172637363	Inactive	Panchanana Nagar	Berhampur	Odisha	760002	7778894747	2025-02-27 19:26:44	<button>Activate</button>
18	330010588	Trayom	Sahu	trayom223@outlook.com	6375950788	Inactive	Mentu Chaka	Berhampur	Odisha	760005	785989408536	2025-03-01 09:23:00	<button>Activate</button>

User Join Net Banking

The screenshot shows the FinTrust Bank homepage. At the top, there is a navigation bar with links for Home, Net Banking (which is underlined), Login, and About Us. The main content area features a large illustration of a classical bank building with two people standing in front, surrounded by bags of money and coins. To the left, there is a promotional message: "Your financial journey starts here. Open your account today!" Below this message is a short paragraph: "Your money deserves a safe and smart home. With us, banking is more than transactions – it's trust. Open your account and experience hassle-free banking. Secure today, prosperous tomorrow." A "Create Account" button is located at the bottom left of the main content area.

The screenshot shows the "Net Banking Creation Form" page. At the top, there is a navigation bar with links for Back, Home, Login, and Create Account. The main content area features a form titled "Net Banking Creation Form" with fields for Account Number, Aadhar Number, Username, Password, and Confirm Password. Below the form is a "Create Account" button. To the right of the form, there is an illustration of hands holding a document with a green stamp that says "COMPLETE". At the bottom of the page, there is a footer with copyright information: "© 2025 FinTrust Bank. All Rights Reserved." followed by links for email (fintrustbank@gmail.com), phone (1800-1234-556), and location (India, Bengaluru).

Net Banking Creation Form

localhost:8080/Bank_Management/netBanking.html

FinTrust Bank

Back Home Login Create Account

Net Banking Creation Form

Account Number: 330010588 Aadhar Number: 785089408536

Username: trayom@123

Password: Confirm Password:

Create Account



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fintrustbank@gmail.com 1800-1234-556 India, Bengaluru

Account Created

localhost:8080/Bank_Management/accountCreated.jsp

FinTrust Bank

Home Net Banking Login About Us



Net banking account has been successfully created.
Now log in using your username and password to access your account and enjoy our services.

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fintrustbank@gmail.com 1800-1234-556 India, Bengaluru

User Login :

The screenshot shows three sequential views of a web browser displaying a bank's login page.

View 1: Home Page

The URL in the address bar is `localhost:8080/Bank_Management/index.html`. The page features a logo for "FinTrust Bank" and navigation links for "Home", "Net Banking", "Login", and "About Us". A central message reads: "Your financial journey starts here. Open your account today!". Below the message is a subtext: "Your money deserves a safe and smart home. With us, banking is more than transactions – it's trust. Open your account and experience hassle-free banking. Secure today, prosperous tomorrow." To the right is an illustration of a bank building with two people carrying bags of money.

View 2: Login Page (Initial State)

The URL in the address bar is `localhost:8080/Bank_Management/login.html`. The page has a header with "Home", "Create Account", and "Join Net Banking". On the left is an illustration of a woman interacting with a smartphone displaying a "APPLICATION" screen. On the right is a "Login Here" form with fields for "User Name" and "Password", and a "Login" button.

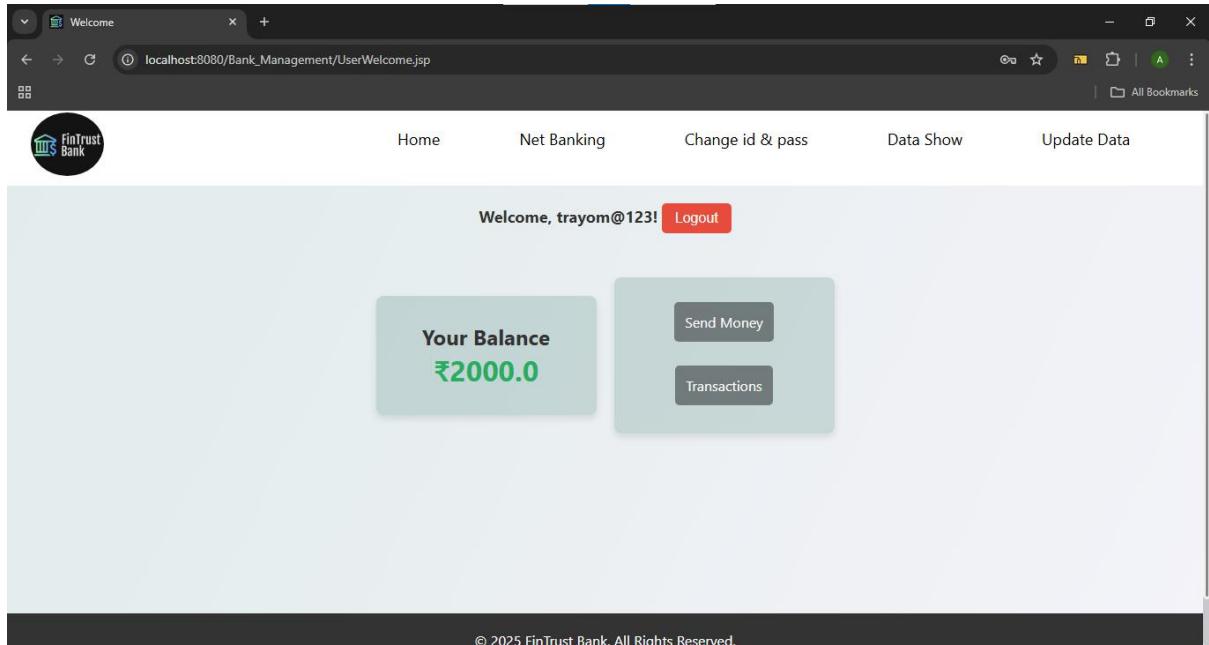
View 3: Login Page (Filled Form)

The URL in the address bar is `localhost:8080/Bank_Management/login.html`. The "User Name" field contains "trayom@123". The rest of the page is identical to View 2.

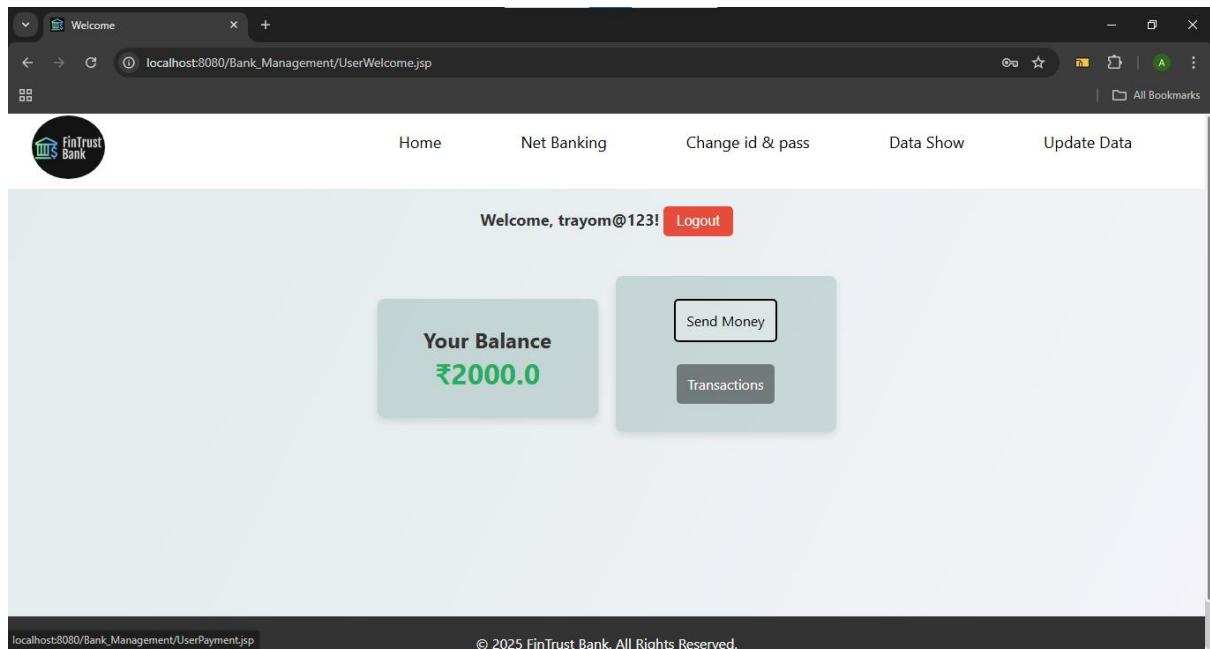
Page Footer

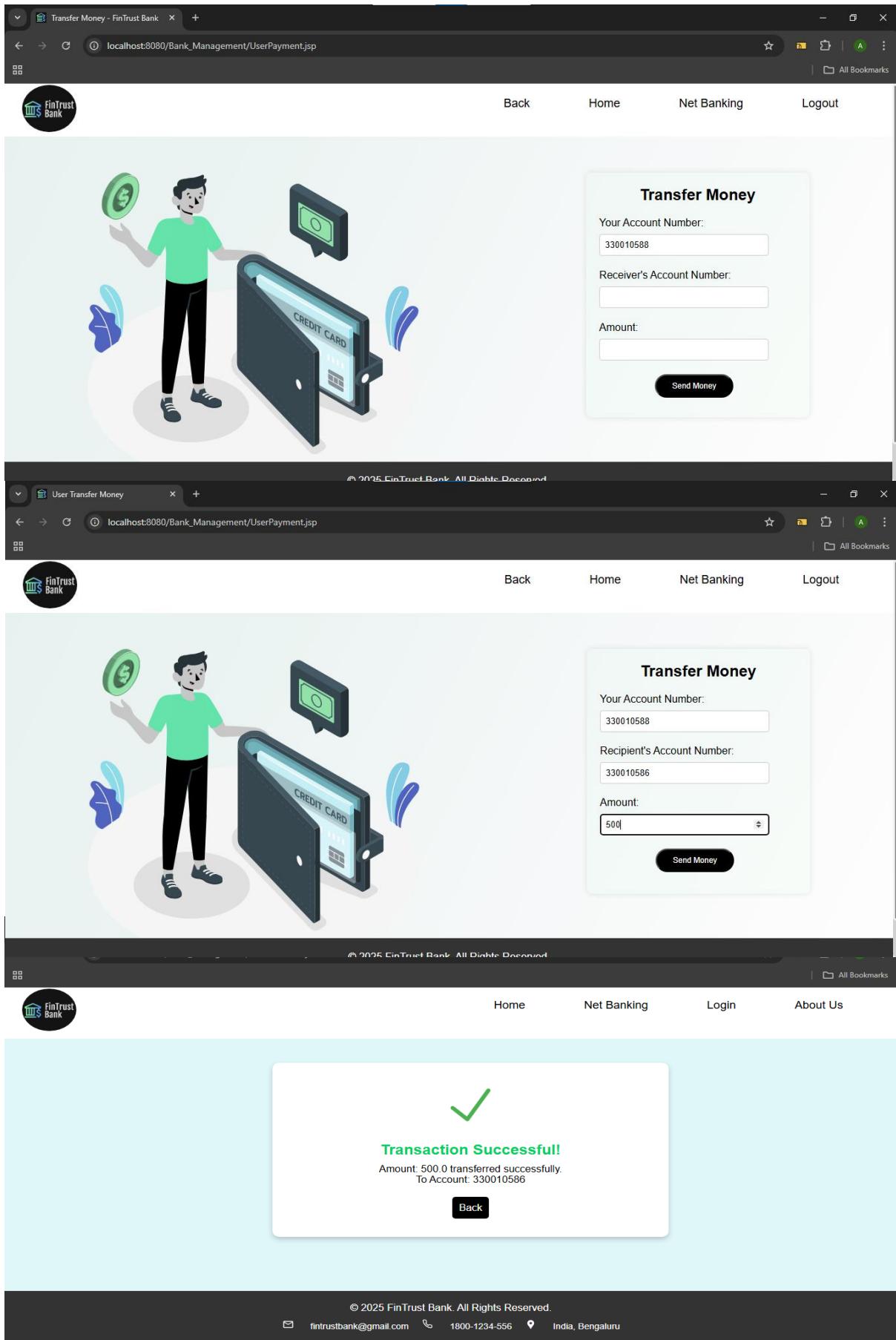
© 2025 FinTrust Bank. All Rights Reserved.
Email: fintrustbank@gmail.com | Phone: 1800-1234-556 | Location: India, Bengaluru

User Welcome Page :



Send Money :





The image shows three screenshots of a web-based banking application for FinTrust Bank. The top two screenshots illustrate the 'Transfer Money' feature, while the bottom one shows a successful transaction confirmation.

Screenshot 1: Transfer Money - FinTrust Bank

This screenshot displays the 'Transfer Money' form. It features a background illustration of a person holding a coin and interacting with a large credit card icon. The form includes fields for 'Your Account Number' (330010588), 'Receiver's Account Number' (empty), and 'Amount' (empty). A 'Send Money' button is at the bottom.

Screenshot 2: User Transfer Money

This screenshot shows the same transfer form after entering the recipient's account number (330010586) and amount (500). The 'Send Money' button is visible.

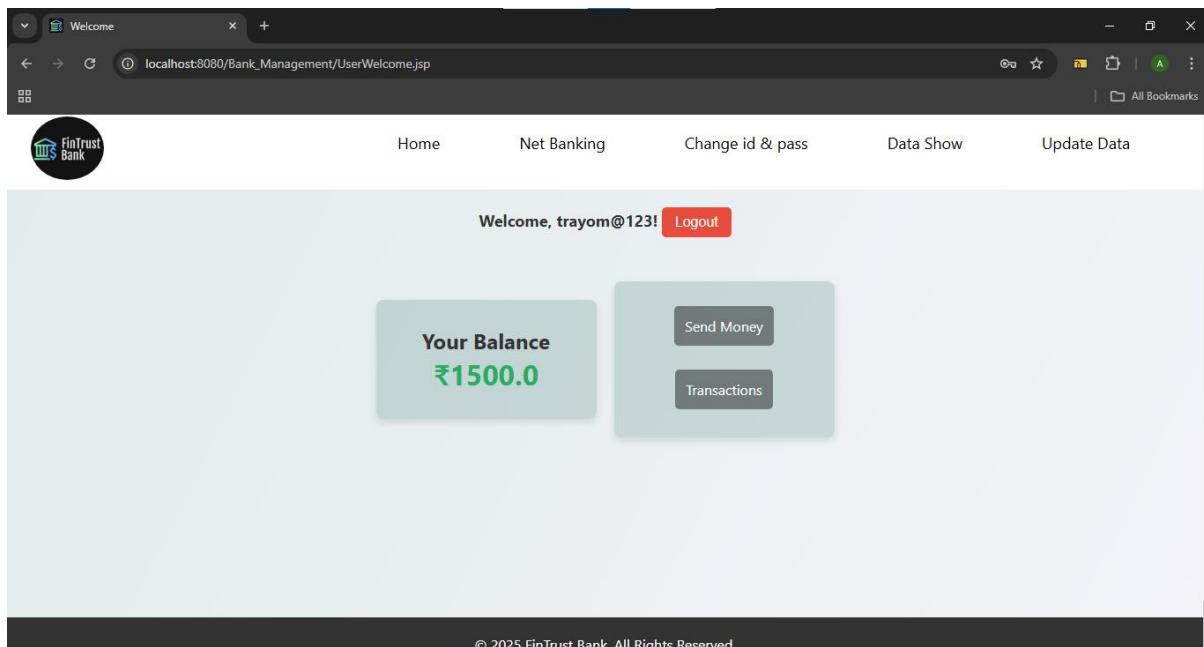
Screenshot 3: Transaction Successful!

This screenshot displays a success message: 'Transaction Successful!' with a green checkmark icon. It states 'Amount: 500.0 transferred successfully.' and 'To Account: 330010586'. A 'Back' button is at the bottom.

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Return to User Welcome Page :

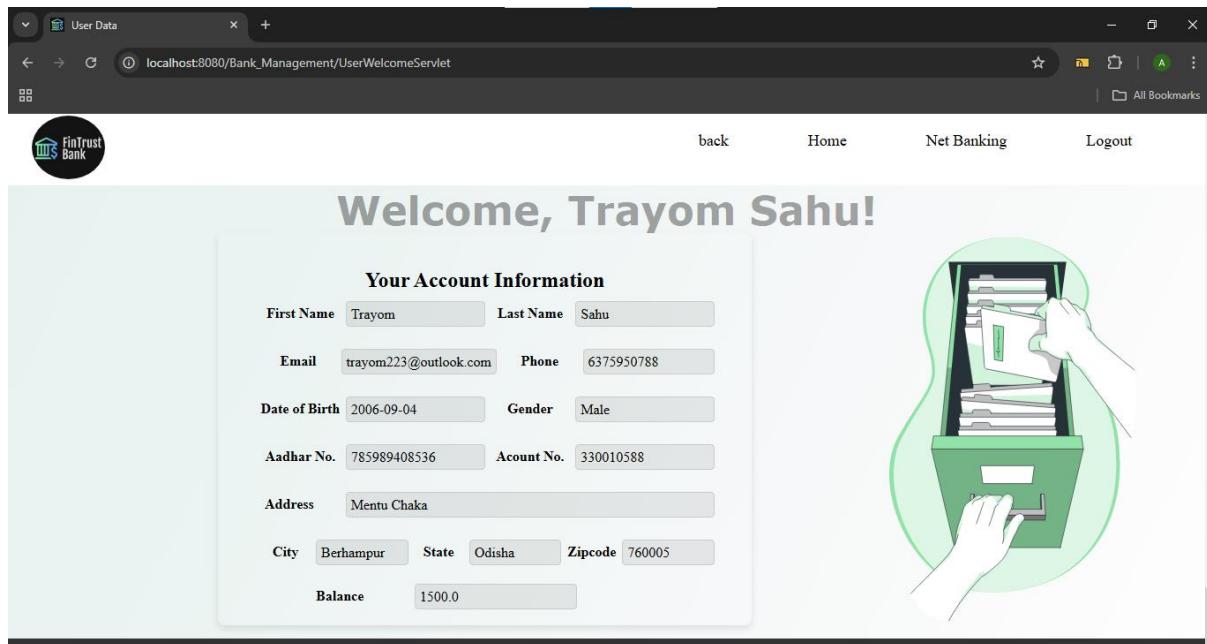
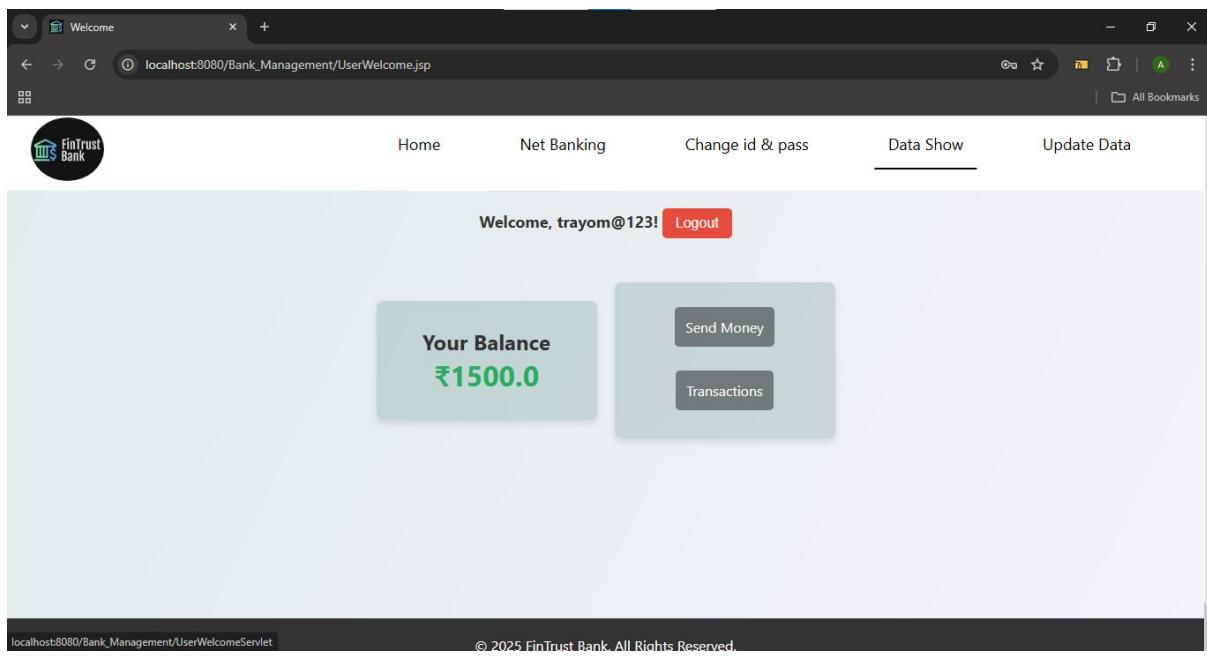


Check Transaction History :

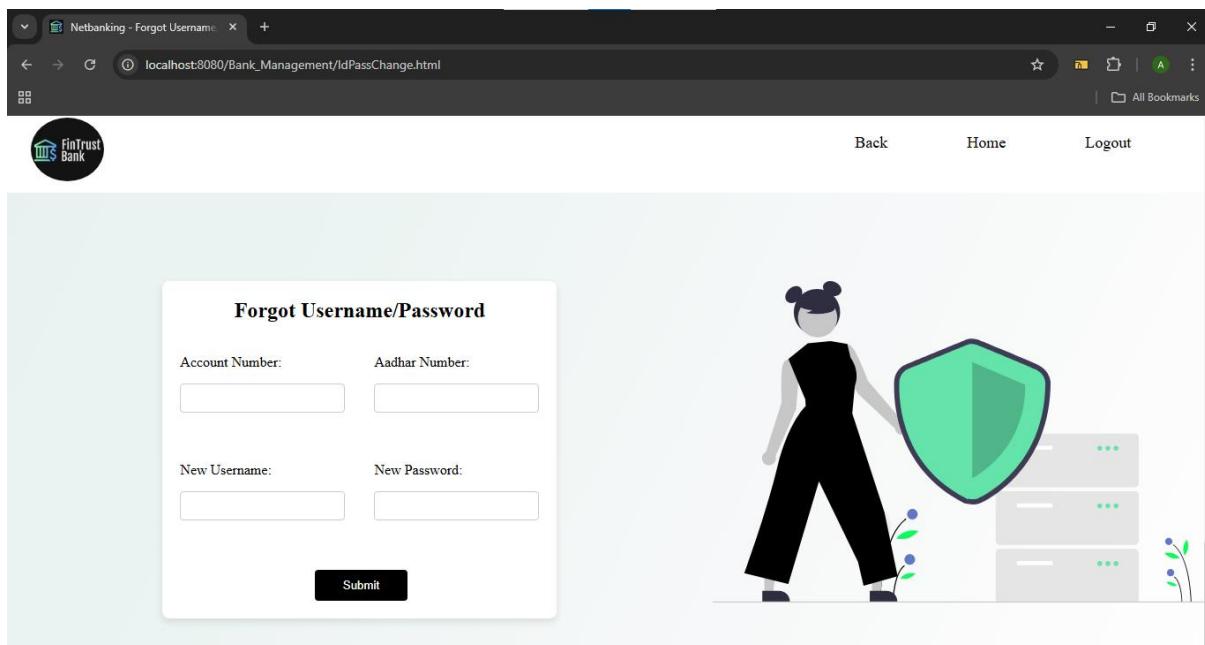
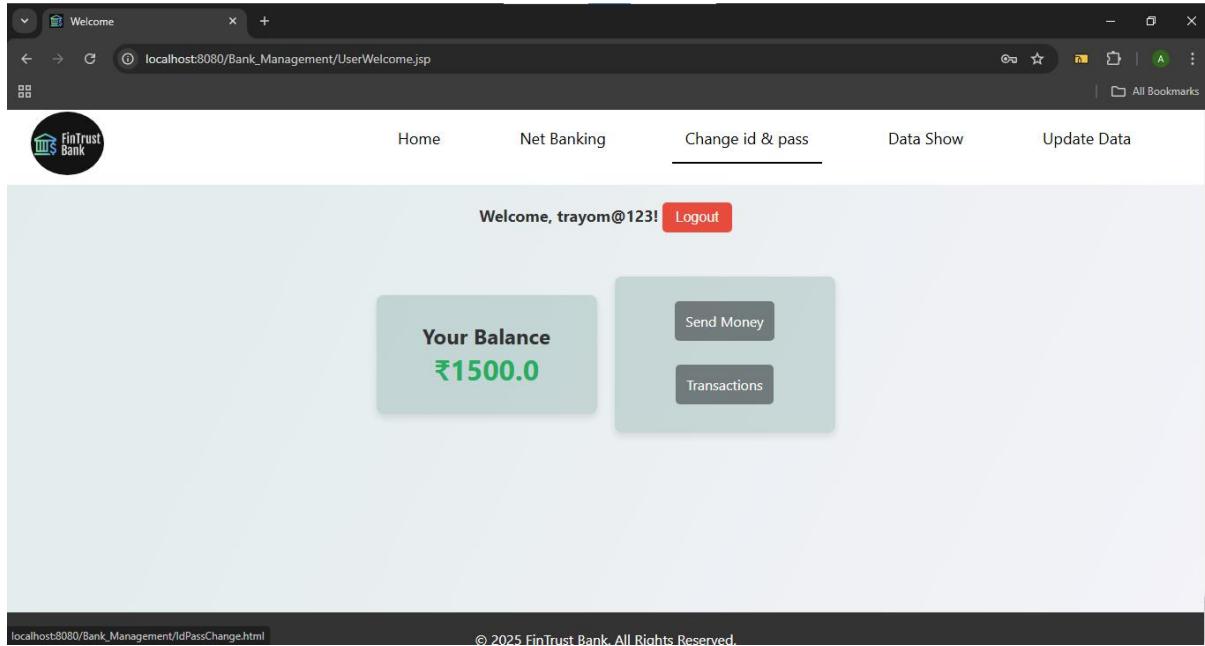
This block contains two screenshots. The top screenshot is identical to the one above, showing the User Welcome Page with a balance of ₹1500.00. The bottom screenshot shows a transition to a "Transaction History" page. The browser title bar now includes "Transaction History", "Clear Transaction History", and "Payment Success". The URL is "localhost:8080/Bank_Management/TransactionHistory.jsp". The page header includes the FinTrust Bank logo and links for Back, Home, Create Account, and Login. The main content is titled "Your Transaction History" and displays a table of one transaction:

Sender Account	Receiver Account	Type	Amount	Date
330010588	330010586	Debit	₹500.0	2025-03-02 16:12:07.0

User Data Show :



User Change ID & Password :



Netbanking - Forgot Username/Password

localhost:8080/Bank_Management/IdPassChange.html

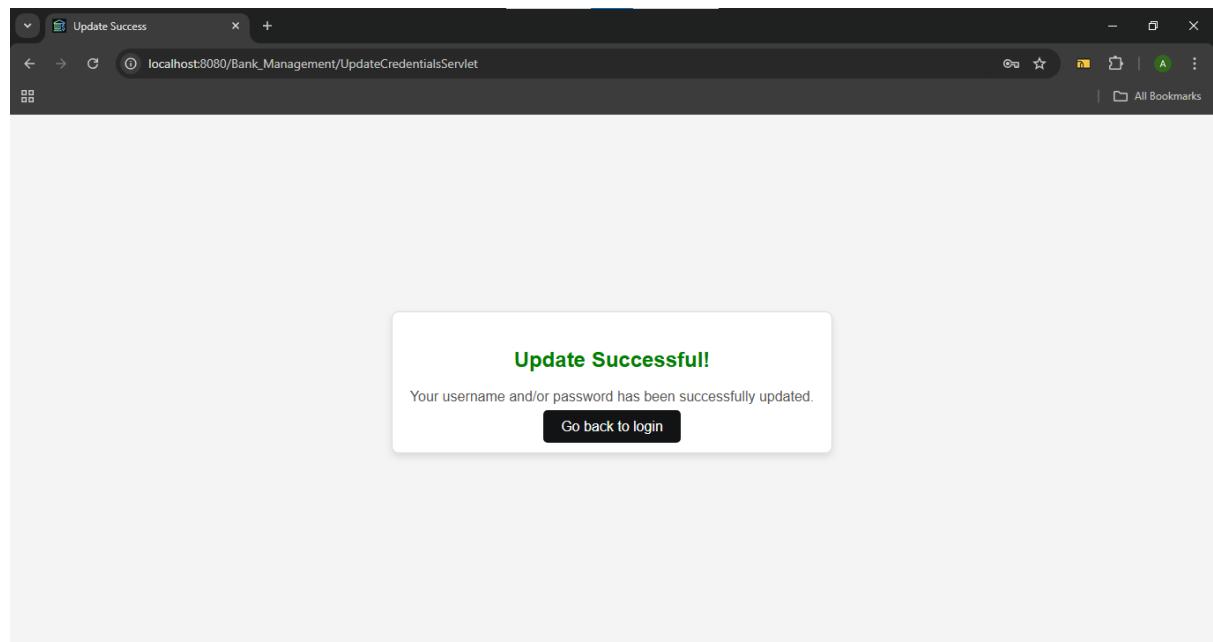
Back Home Logout



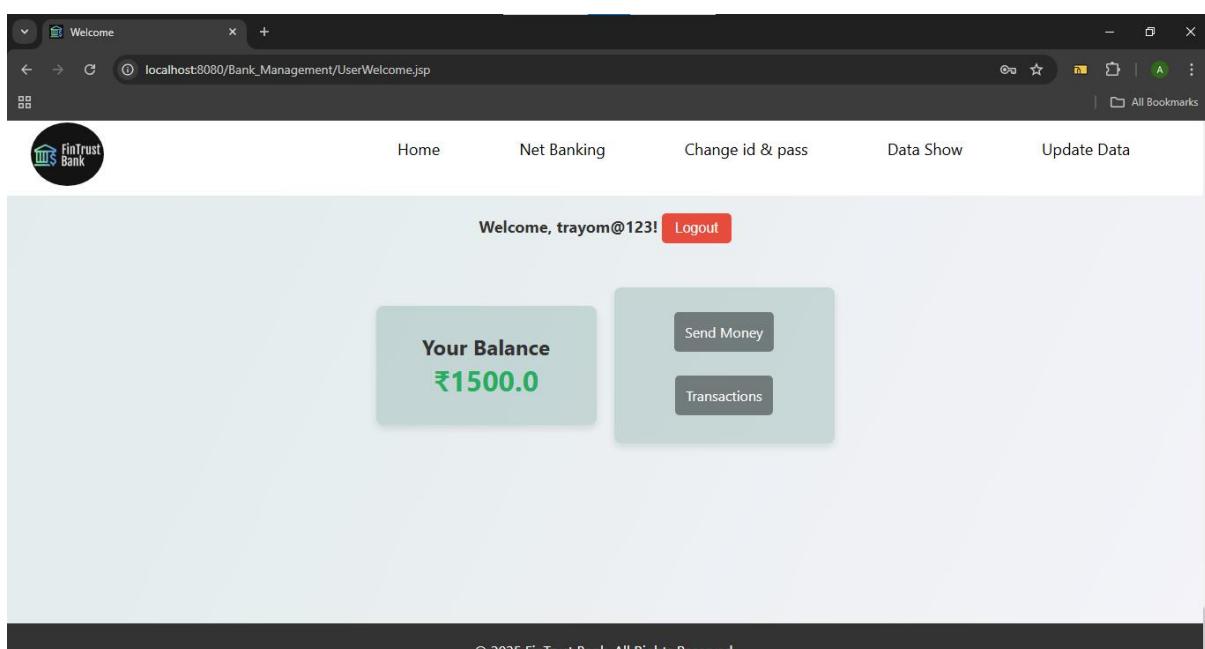
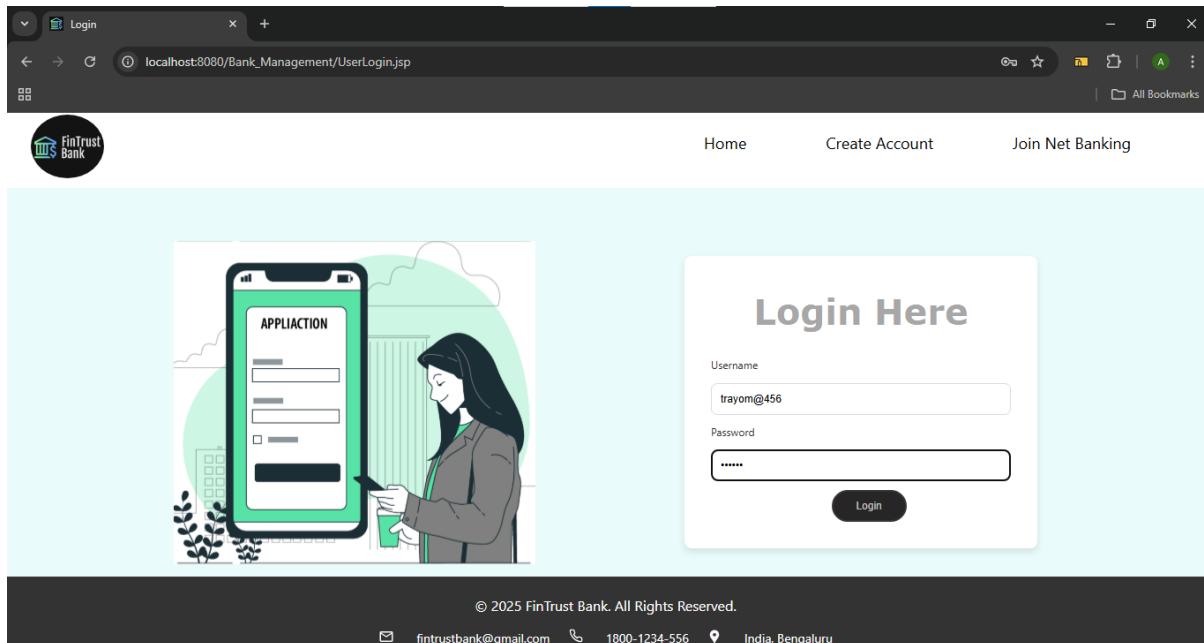
Forgot Username/Password

Account Number:	Aadhar Number:
<input type="text" value="330010588"/>	<input type="text" value="785989408536"/>
New Username:	New Password:
<input type="text" value="trayom@456"/>	<input type="password" value="....."/>

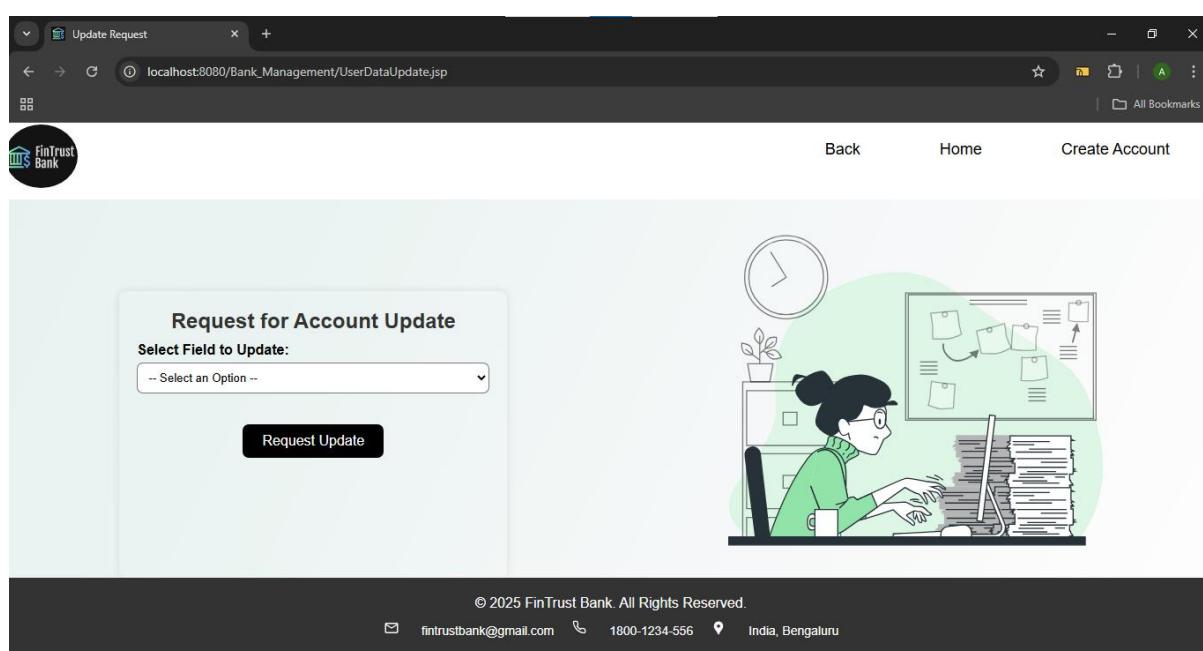
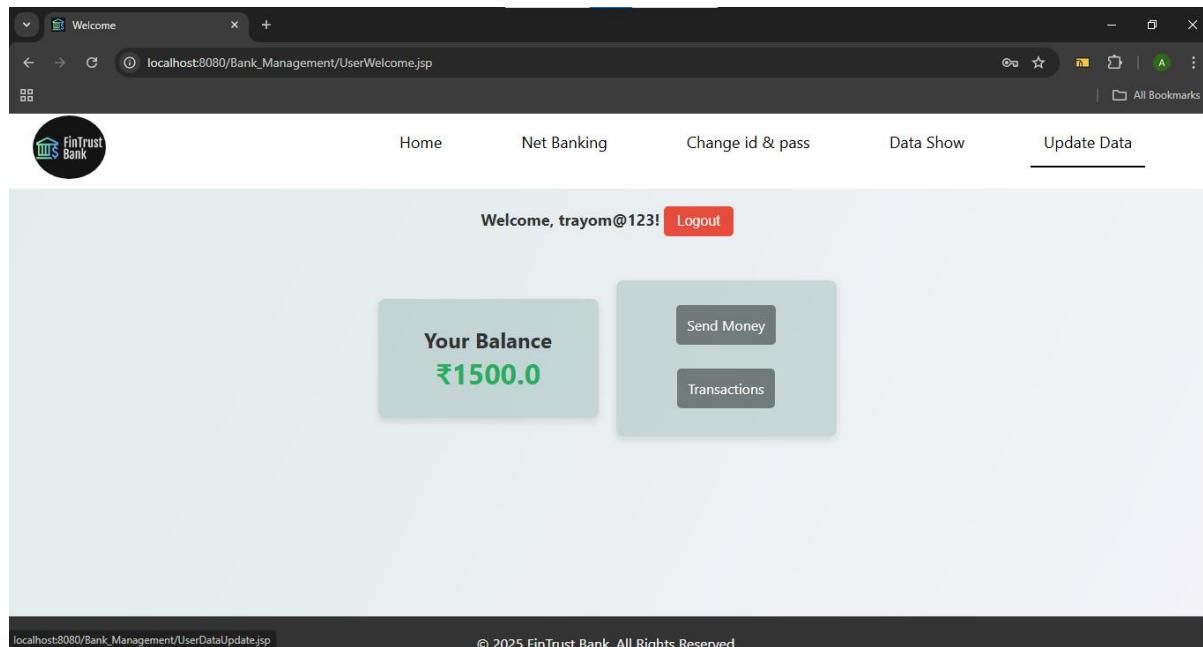
Submit



User Login Through New Id and Password :



User Can Update Data :



Update Request

localhost:8080/Bank_Management/UserDataUpdate.jsp

FinTrust Bank

Back Home Create Account

Request for Account Update

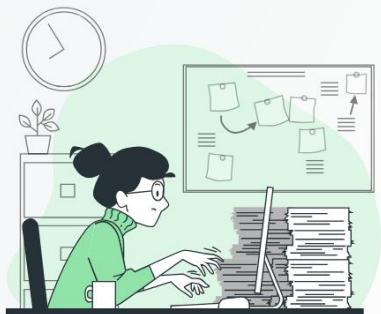
Select Field to Update:

Phone

New Phone:

9935861620

Request Update



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mailto: fintrustbank@gmail.com | 1800-1234-556 | India, Bengaluru

Update Request Submitted

localhost:8080/Bank_Management/UserUpdateSuccess.jsp

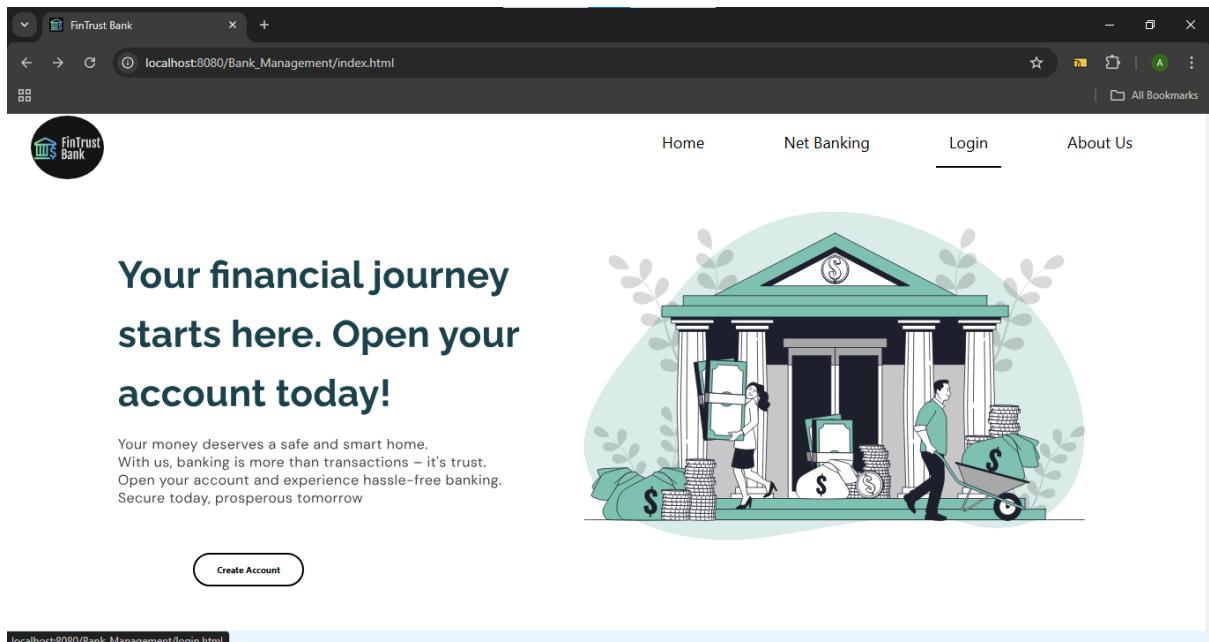
FinTrust Bank

Request Submitted Successfully!

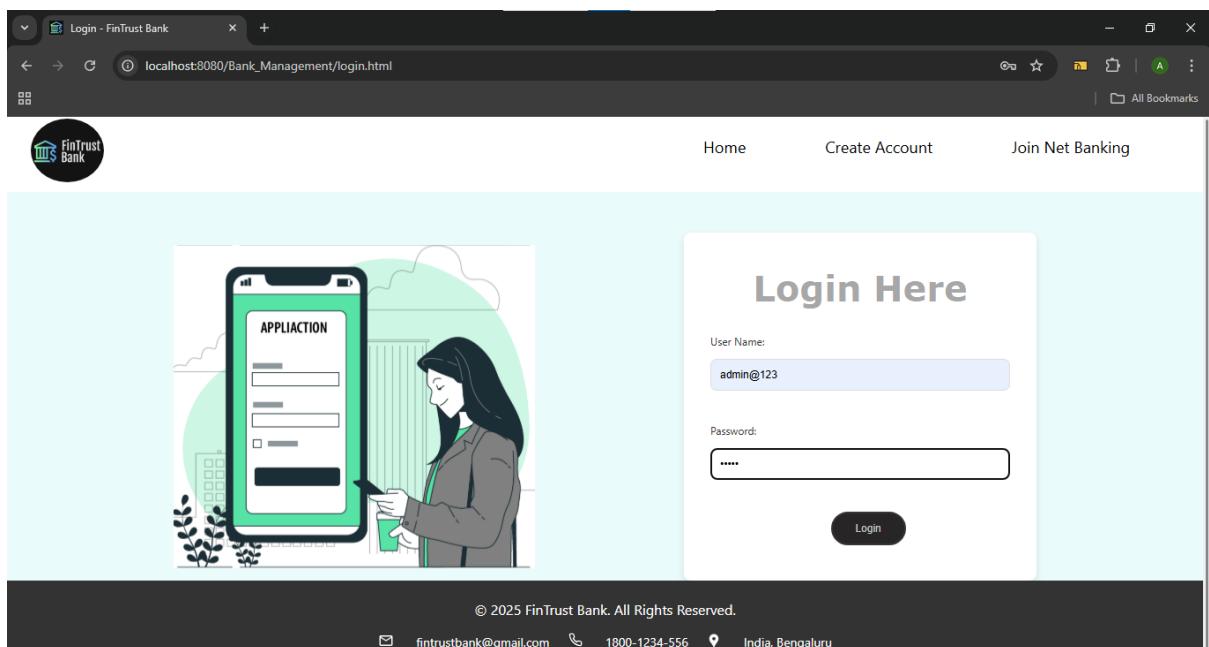
Your update request has been submitted for review.
Please wait for admin approval.

Welcome page

Admin Login :



The screenshot shows the FinTrust Bank home page. At the top, there's a navigation bar with links for Home, Net Banking, Login (which is underlined), and About Us. Below the navigation is a large green circular illustration of a bank building with two people and a wheelbarrow filled with money bags. To the left, there's a promotional message: "Your financial journey starts here. Open your account today!" followed by a short paragraph about banking being more than transactions and a "Create Account" button.



The screenshot shows the FinTrust Bank login page. It features a header with the bank's logo, Home, Create Account, and Join Net Banking links. On the left, there's an illustration of a woman holding a smartphone displaying a mobile application interface. On the right, there's a "Login Here" form with fields for User Name (admin@123) and Password (*****). A "Login" button is at the bottom of the form. The footer contains copyright information and contact details: "© 2025 FinTrust Bank. All Rights Reserved.", "fintrustbank@gmail.com", "1800-1234-556", and "India, Bengaluru".

Admin Welcome Page :

The screenshot shows a web browser window titled "Admin Page" with the URL "localhost:8080/Bank_Management/myServlet". The page features a header with the FinTrust Bank logo, navigation links for "Home", "Create Account", "All Account", and "Logout", and a sidebar with a "Net Banking" button and other menu items. The main content area displays a welcome message "Hello Ankit" and "Welcome to FinTrust Bank Admin Page." It includes a cartoon illustration of a person with arms raised in front of a world map. A sidebar on the right is titled "This is FinTrust Bank Admin Panel" and lists "Quick Actions" like "Activate Pending Users", "View Transaction Logs", and "Manage Bank Policies". A "Security Notice" warning is also present.

Net Banking :

The screenshot shows a web browser window titled "Admin Page" with the URL "localhost:8080/Bank_Management/myServlet". The page structure is identical to the Admin Welcome Page, featuring a header with the FinTrust Bank logo, navigation links, and a sidebar with a "Net Banking" button. The main content area displays a welcome message "Hello Ankit" and "Welcome to FinTrust Bank Admin Page." It includes a cartoon illustration of a person with arms raised in front of a world map. A sidebar on the right is titled "This is FinTrust Bank Admin Panel" and lists "Quick Actions" like "Activate Pending Users", "View Transaction Logs", and "Manage Bank Policies". A "Security Notice" warning is also present. The URL "localhost:8080/Bank_Management/netBanking.html" is visible at the bottom of the page.

Net Banking Creation Form

localhost:8080/Bank_Management/netBanking.html

FinTrust Bank

Back Home Login Create Account

Net Banking Creation Form

Account Number: Aadhar Number:

Username:

Password: Confirm Password:

Create Account

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Balance Send :

Admin Page

localhost:8080/Bank_Management/myServlet

FinTrust Bank

Home Create Account All Account Logout

Hello Ankit

Welcome to FinTrust Bank Admin Page.

This is FinTrust Bank Admin Panel

Manage users, activate accounts, and oversee transactions efficiently.

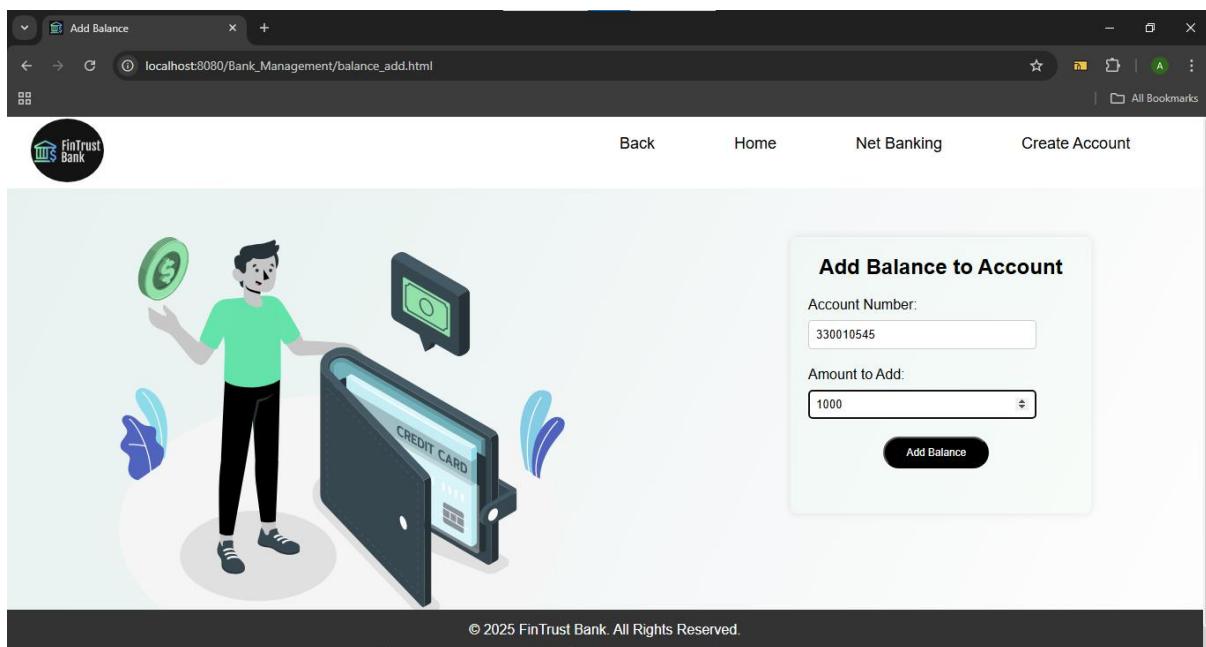
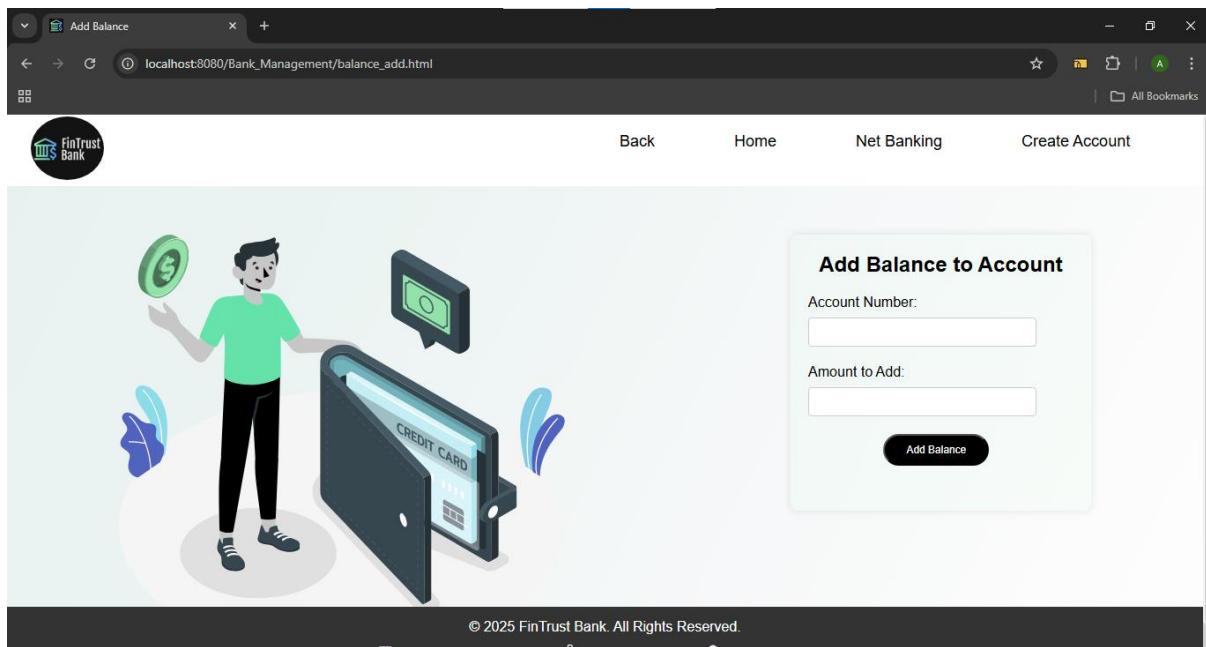
Quick Actions

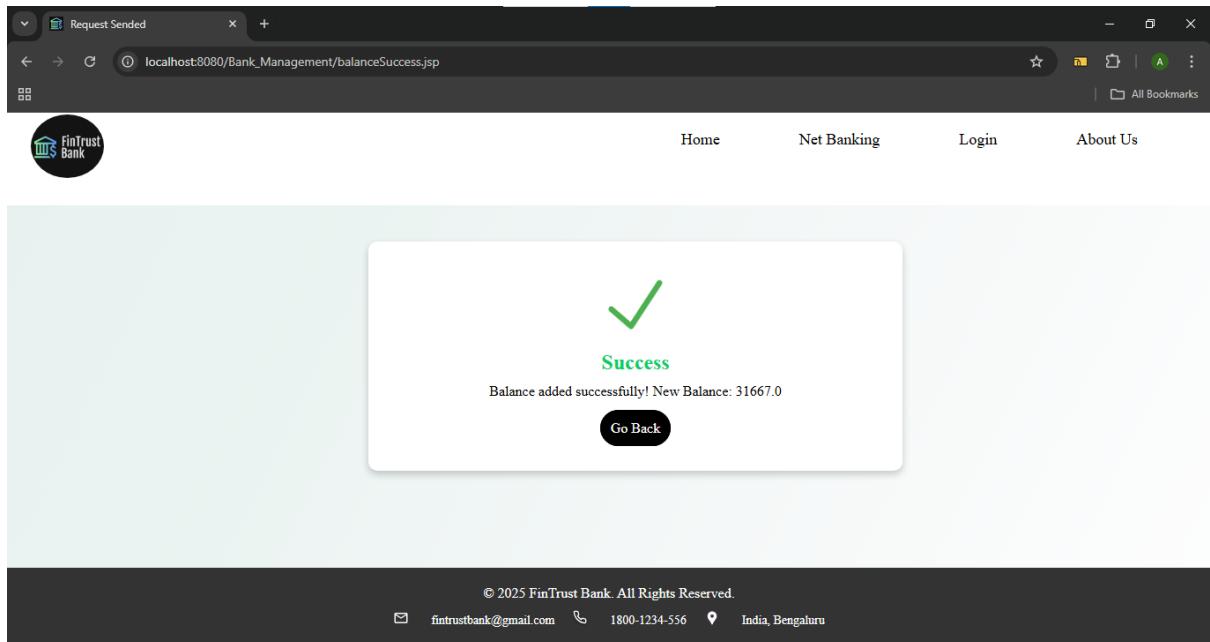
- Activate Pending Users
- View Transaction Logs
- Manage Bank Policies

⚠ Security Notice: Ensure all user verifications are completed before activation. Unauthorized access is strictly prohibited.

Net Banking

- Balance Send
- Balance Deduction
- Transactions History
- Account Request
- All Users Data
- User's Id Pass Change
- Users Details Update





Balance Deduction :

A screenshot of a web browser window titled "Admin Page" with the URL "localhost:8080/Bank_Management/myServlet". The page has a sidebar with buttons for "Net Banking", "Balance Send", "Balance Deduction", "Transactions History", "Account Request", "All Users Data", "User's Id Pass Change", and "Users Details Update". The main content area displays a greeting "Hello Ankit" and a message "Welcome to FinTrust Bank Admin Page.". It features a central illustration of a person with arms raised in front of a globe. To the right, there is a section titled "This is FinTrust Bank Admin Panel" with a sub-section "Quick Actions" containing "Activate Pending Users", "View Transaction Logs", and "Manage Bank Policies". A security notice at the bottom right cautions about user verifications before activation.

Balance Deduction

localhost:8080/Bank_Management/MinusBalance.jsp

FinTrust Bank

Back Home Net Banking Login

Balance Deduction

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fintrustbank@gmail.com 1800-1234-556 India, Bengaluru

Account Number:

Amount to Deduct:

Submit

Balance Deduction

localhost:8080/Bank_Management/MinusBalance.jsp

FinTrust Bank

Back Home Net Banking Login

Balance Deduction

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fintrustbank@gmail.com 1800-1234-556 India, Bengaluru

Account Number:

Amount to Deduct:

Submit

Balance Deduction Success

localhost:8080/Bank_Management/MinusBalanceSuccess.jsp?balance=1500.0

FinTrust Bank

Home Create Account Login

Transaction Successful

Amount Deducted Successfully!
User new balance is: \$1500.0

Go Back to Deduct More

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fintrustbank@gmail.com 1800-1234-556 India, Bengaluru

Transaction History

The screenshot shows the FinTrust Bank Admin Panel. At the top, there is a navigation bar with links for Home, Create Account, All Account, and Logout. On the left, a sidebar menu lists several options: Net Banking, Balance Send, Balance Deduction, Transactions History, Account Request, All Users Data, User's Id Pass Change, and Users Details Update. The main content area features a welcome message "Hello Ankit" and "Welcome to FinTrust Bank Admin Page." Below this is a cartoon illustration of a woman with arms raised, standing in front of a world map. To the right, a box titled "This is FinTrust Bank Admin Panel" contains instructions for managing users, activating accounts, and overseeing transactions. It also includes a "Quick Actions" section with three items: "Activate Pending Users" (checked), "View Transaction Logs", and "Manage Bank Policies". A security notice at the bottom of this box advises ensuring all user verifications are completed before activation and that unauthorized access is strictly prohibited.

The screenshot shows the Transaction History page. At the top, there is a "Back" button. The main content is a table titled "Transaction History" with columns for ID, Sender Account, Receiver Account, Amount, and Date. The table displays 12 transaction records. A watermark for "Activate Windows" is visible across the bottom of the page.

ID	Sender Account	Receiver Account	Amount	Date
13	330010549	Bank	200.0	2025-03-02 17:26:41.0
12	Bank	330010545	1000.0	2025-03-02 17:26:04.0
11	330010548	330010578	1000.0	2025-03-02 17:22:22.0
10	330010553	330010565	50.0	2025-03-02 17:21:51.0
9	330010575	330010568	100.0	2025-03-02 17:21:21.0
8	330010575	330010579	200.0	2025-03-02 17:21:01.0
7	330010586	330010548	20.0	2025-03-02 17:20:10.0
6	330010586	330010565	1.0	2025-03-02 17:12:53.0
5	330010586	330010588	20.0	2025-03-02 17:12:37.0
4	330010586	330010588	323.0	2025-03-02 17:05:45.0
3	330010573	330010578	20000.0	2025-03-02 17:04:52.0

Account Request :

The screenshot shows the FinTrust Bank Admin Page. On the left, there is a sidebar with various administrative options: Net Banking, Balance Send, Balance Deduction, Transactions History, Account Request (which is highlighted), All Users Data, User's Id Pass Change, and Users Details Update. The main content area has a green header "Hello Ankit" and "Welcome to FinTrust Bank Admin Page." Below the header is a cartoon illustration of a woman with her arm raised, standing in front of a world map. To the right of the illustration is a box titled "This is FinTrust Bank Admin Panel" which says "Manage users, activate accounts, and oversee transactions efficiently." It also lists "Quick Actions" such as "Activate Pending Users" (with a checked checkbox), "View Transaction Logs", and "Manage Bank Policies". A security notice at the bottom of this box advises users to ensure all user verifications are completed before activation.

The screenshot shows the FinTrust Bank Admin Page with the title "Inactive Accounts". The main content area displays a table with the following data:

Sl No	Account No	First Name	Last Name	Email	Phone	Status	Address	City	State	Zipcode	Aadhar No	Created At	Action
16	330010584	Murali	Sahu	muraali998@gmail.com	8172637363	Inactive	Panchanana Nagar	Berhampur	Odisha	760002	77788894747	2025-02-27 19:26:44	<button>Activate</button>

All Users Data Read

Admin Page localhost:8080/Bank_Management/myServlet

Home Create Account All Account Logout

FinTrust Bank

Hello Ankit
Welcome to FinTrust Bank Admin Page.

This is FinTrust Bank Admin Panel
Manage users, activate accounts, and oversee transactions efficiently.

Quick Actions

- Activate Pending Users
- View Transaction Logs
- Manage Bank Policies

⚠ Security Notice: Ensure all user verifications are completed before activation. Unauthorized access is strictly prohibited.

localhost:8080/Bank_Management/data.jsp

Read All Data localhost:8080/Bank_Management/data.jsp

All Users Data

Back

SINo	Account Number	First Name	Last Name	Email	Phone	DOB	Gender	Aadhar No.	Address	City	State	Zip Code	Balance
1	330010543	Dipak	Sahu	dipaksahu255@gmail.com	6377324863	04-09-2004	Male	7737382747274	Ganjam	Berhampur	Odisha	720003	398705.0
2	330010544	Linga	Rout	linga937@gmail.com	7735005732	2005-05-11	Male	768828283899	Ganjam	bbsr	Odisha	720097	1800.0
3	330010545	Kangana	Rawat	kanganar285@gmail.com	7392793279	1996-11-26	Female	76882828389	Wardha	trates	UP	870089	31967.0
4	330010548	Jyoti	Sharma	jyoti1927@gmail.com	8172637363	2005-06-14	Female	89882828389	Dhankat	Joungad	MadhyaPradesh	970089	220.0
5	330010549	Niharika	Dalai	niharika783@gmail.com	8172637967	2008-05-20	Male	76882855551	Koutpeta	Brahmapur	Odisha	760088	1300.0
6	330010553	sandeep	behera	sandeep888@gmail.com	9876454545	2005-03-29	Male	888097382739	Ganjam	Berhampur	Odisha	760002	7284.0
7	330010557	Ujawini	Reddy	ujawini565@gmail.com	6370999436	2006-06-13	Female	847778283894	Ganjam, Goudadhepa	Kabisurya Nagar	Odisha	650089	2000.0
8	330010562	Kanhu	Madhab	kanhumadhab118@gmail.com	9114330789	1994-08-17	Male	847773883894	Jagnath Nagar	Jinskikpur	Odisha	330948	201.0
9	330010565	Litu	panda	litupanda987@gmail.com	7735898660	2007-05-05	Other	847328283894	Triputi Nagar	Kontipur	Odisha	870089	1030.56
10	330010568	Pradeep	Sahu	pradeepsahu778@gmail.com	8115463301	2010-09-03	Male	773452637364	Maalauna Mandir	Berhampur	Odisha	760009	970.0
11	330010573	Mohan	Das	mohandas223@gmail.com	6350750888	1869-10-02	Male	734487487384	Porbandar	Porbandar	Gujurat	450009	1984020.0

Users Id And Password Change :

The screenshot shows the FinTrust Bank Admin Panel. At the top, there is a navigation bar with links for Home, Create Account, All Account, and Logout. On the left, a sidebar contains buttons for Net Banking, Balance Send, Balance Deduction, Transactions History, Account Request, All Users Data, User's Id Pass Change, and Users Details Update. The main content area features a welcome message "Hello Ankit" and "Welcome to FinTrust Bank Admin Page." Below this is a central illustration of a person with arms raised, standing in front of a world map. To the right, a box titled "This is FinTrust Bank Admin Panel" describes the purpose of the page: "Manage users, activate accounts, and oversee transactions efficiently." It includes a "Quick Actions" section with three items: "Activate Pending Users" (checked), "View Transaction Logs", and "Manage Bank Policies". A security notice at the bottom right states: "⚠️ Security Notice: Ensure all user verifications are completed before activation. Unauthorized access is strictly prohibited."

The screenshot shows the "Forgot Username/Password" page. The URL in the address bar is "localhost:8080/Bank_Management/IdPassChange.html". The page has a header with Back, Home, and Logout links. On the left, there is a form for entering Account Number and Aadhar Number, followed by fields for New Username and New Password, and a Submit button. To the right of the form is a large illustration of a person holding a shield, standing next to a server rack.

Users Details Update Request:

Welcome to FinTrust Bank Admin Page.

This is FinTrust Bank Admin Panel

Manage users, activate accounts, and oversee transactions efficiently.

Quick Actions

- Activate Pending Users
- View Transaction Logs
- Manage Bank Policies

⚠ Security Notice: Ensure all user verifications are completed before activation. Unauthorized access is strictly prohibited.

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localhost:8080/Bank_Management/adminUpdateRequests.jsp

Pending Update Requests

Account No	Column	Old Value	New Value	Action
330010588	phone	6375950788	9935861620	<input type="button" value="Approve"/> <input type="button" value="Reject"/>

Home :

The screenshot shows the FinTrust Bank Admin Panel. At the top, there's a navigation bar with links for Home, Create Account, All Account, and Logout. On the left, a sidebar contains buttons for Net Banking, Balance Send, Balance Deduction, Transactions History, Account Request, All Users Data, User's Id Pass Change, and Users Details Update. The main content area features a welcome message "Hello Ankit" and "Welcome to FinTrust Bank Admin Page." Below this is a decorative illustration of a woman with her arm raised in front of a world map. To the right, a box titled "This is FinTrust Bank Admin Panel" describes the purpose of the page and lists quick actions: Activate Pending Users (checked), View Transaction Logs, and Manage Bank Policies. A security notice at the bottom of this box advises users to ensure all user verifications are completed before activation.

The screenshot shows the FinTrust Bank home page. At the top, there's a navigation bar with links for Home, Net Banking, Login, and About Us. On the left, a large call-to-action text reads: "Your financial journey starts here. Open your account today!" Below this text is a smaller paragraph: "Your money deserves a safe and smart home. With us, banking is more than transactions – it's trust. Open your account and experience hassle-free banking. Secure today, prosperous tomorrow." At the bottom of this section is a "Create Account" button. To the right, there's a decorative illustration of a bank building with a woman standing in front and a man pushing a wheelbarrow filled with bags of money.

Create Account :

The screenshot shows the FinTrust Bank Admin Panel with a light green background. At the top, there's a navigation bar with links for Home, Create Account (which is underlined), All Account, and Logout. On the left, a sidebar contains buttons for Net Banking, Balance Send, Balance Deduction, Transactions History, Account Request, All Users Data, User's Id Pass Change, and Users Details Update. The main area features a welcome message "Hello Ankit" and "Welcome to FinTrust Bank Admin Page." Below this is a cartoon illustration of a woman with long dark hair, wearing a green dress, standing next to a globe and some books. To the right, a box titled "This is FinTrust Bank Admin Panel" contains instructions to manage users, activate accounts, and oversee transactions efficiently. It also lists "Quick Actions" like Activate Pending Users, View Transaction Logs, and Manage Bank Policies. A security notice at the bottom right advises ensuring all user verifications are completed before activation.

The screenshot shows the FinTrust Bank Admin Panel with a light grey background. At the top, there's a navigation bar with links for Home, Net Banking, and Login. The main area features a large title "Create Your Account". Below it is a form titled "Fill your data here" with fields for First Name, Last Name, Email, Phone, Date of Birth (with a date picker), Gender (with a dropdown menu showing "Male"), Aadhar No., and Address. To the right of the form is a cartoon illustration of a person holding a green folder filled with papers.

All Account :

Admin Page

localhost:8080/Bank_Management/admin.jsp

Home Create Account All Account Logout

Hello Ankit

Welcome to FinTrust Bank Admin Page.

This is FinTrust Bank Admin Panel

Manage users, activate accounts, and oversee transactions efficiently.

Quick Actions

- Activate Pending Users
- View Transaction Logs
- Manage Bank Policies

⚠ Security Notice: Ensure all user verifications are completed before activation. Unauthorized access is strictly prohibited.

User Management

localhost:8080/Bank_Management/ReqHandle.jsp

Home Admin page Login Logout

Search by Account Number: Search

All Account Data

Sl No	Account No	First Name	Last Name	Email	Phone	Balance	Status	Address	City	State	Zipcode	Aadhar No	Created At	Action
1	330010543	Dipak	Sahu	dipaksahu255@gmail.com	6377324863	1.00400192E8	Active	Ganjam	Berhampur	Odisha	720003	7737382747274	2025-02-16 11:13:52	<button>Deactivate</button>
2	330010544	Linga	Rout	linga937@gmail.com	7735005732	1700.0	Active	Ganjam	bbsr	Odisha	720097	768828283899	2025-02-16 11:50:03	<button>Deactivate</button>
3	330010545	Kangana	Rawat	kanganar285@gmail.com	7392793279	31667.0	Active	Wardha	trates	UP	870089	76882828389	2025-02-16 11:57:39	<button>Deactivate</button>
4	330010548	Jyoti	Sharma	jyoti1927@gmail.com	8172637363	500.0	Active	Dhankat	Joungad	MadhyaPradesh	970089	89882828389	2025-02-17 10:31:45	<button>Deactivate</button>
5	330010549	Niharika	Dalai	niharika783@gmail.com	8172637967	1800.0	Active	Koutpeta	Brahmapur	Odisha	760088	768828555551	2025-02-17 10:35:27	<button>Deactivate</button>

User Management

localhost:8080/Bank_Management/ReqHandle.jsp

Home Admin page Login Logout

Search by Account Number: Search

All Account Data

Account No	First Name	Last Name	Email	Phone	Balance	Status	Address	City	State	Zipcode	Aadhar No	Created At	Action
330010543	Dipak	Sahu	dipaksahu255@gmail.com	6377324863	1.00400192E8	Active	Ganjam	Berhampur	Odisha	720003	7737382747274	2025-02-16 11:13:52	<button>Deactivate</button>
330010544	Linga	Rout	linga937@gmail.com	7735005732	1700.0	Active	Ganjam	bbsr	Odisha	720097	768828283899	2025-02-16 11:50:03	<button>Deactivate</button>
330010545	Kangana	Rawat	kanganar285@gmail.com	7392793279	31667.0	Active	Wardha	trates	UP	870089	76882828389	2025-02-16 11:57:39	<button>Deactivate</button>
330010548	Jyoti	Sharma	jyoti1927@gmail.com	8172637363	500.0	Active	Dhankat	Joungad	MadhyaPradesh	970089	89882828389	2025-02-17 10:31:45	<button>Deactivate</button>
330010549	Niharika	Dalai	niharika783@gmail.com	8172637967	1800.0	Active	Koutpeta	Brahmapur	Odisha	760088	768828555551	2025-02-17 10:35:27	<button>Deactivate</button>

Logout :

The screenshot shows the FinTrust Bank Admin Panel. At the top, there is a navigation bar with links for Home, Create Account, All Account, and Logout. On the left, a sidebar contains buttons for Net Banking, Balance Send, Balance Deduction, Transactions History, Account Request, All Users Data, User's Id Pass Change, and Users Details Update. The main content area features a welcome message "Hello Ankit" and "Welcome to FinTrust Bank Admin Page." Below this is a cartoon illustration of a woman with arms raised, standing in front of a world map and bookshelves. To the right, a box titled "This is FinTrust Bank Admin Panel" contains a sub-section for "Quick Actions" with options to activate pending users, view transaction logs, and manage bank policies. A security notice at the bottom right cautions against unauthorized access.

The screenshot shows the FinTrust Bank login page. At the top, there is a navigation bar with links for Home, Create Account, and Join Net Banking. On the left, there is an illustration of a woman holding a smartphone displaying a banking application interface. To the right, a large "Login Here" button is centered, with input fields for "User Name" and "Password" and a "Login" button below them. At the bottom, there is a footer with copyright information: "© 2025 FinTrust Bank. All Rights Reserved." and contact details: "fintrustbank@gmail.com", "1800-1234-556", and "India, Bengaluru".

Data Base :

The screenshot shows the MySQL Workbench interface with a query results window titled 'Query 1'. The query executed is 'select * from user_data'. The results are displayed in a grid format with 18 rows of data. The columns include sno, acno, fname, lname, email, phone, dob, gender, aadharo, address, city, state, zipcode, balance, created_at, and status. The data represents various users with their personal and account details.

sno	acno	fname	lname	email	phone	dob	gender	aadharo	address	city	state	zipcode	balance	created_at	status
1	330010543	Dipak	Sahu	dpakshu255@gmail.com	6377324663	04-09-2004	Male	7737382747274	Ganjam	Berhampur	Odisha	720003	100398704.00	2025-02-16 11:13:52	Active
2	330010544	Linga	Rout	linga937@gmail.com	7735005733	2005-05-11	Male	76882828399	Ganjam	bbsr	Odisha	720097	1800.00	2025-02-17 11:50:03	Active
3	330010545	Kangana	Rawat	kangana285@gmail.com	7392793279	1996-11-26	Female	76882828399	Wardha	trates	UP	870089	31967.0	2025-02-17 11:57:39	Active
4	330010546	Jyoti	Sharma	jyoti1927@gmail.com	8172637363	2005-06-14	Female	89882828399	Dhankat	Jounjad	MadhyaPradesh	970089	220.00	2025-02-17 10:31:45	Active
5	330010547	Niharika	Dalai	niharika73@gmail.com	8172637967	2008-05-20	Male	76882855551	Koutpeta	Brahmapur	Odisha	760088	1300.00	2025-02-17 10:35:27	Active
6	330010553	sandeep	berera	sandeep088@gmail.com	9876454545	2005-03-29	Male	888097382739	Ganjam	Berhampur	Odisha	760002	7284.00	2025-02-17 16:50:59	Active
7	330010557	Ujawni	Reddy	ujawni55@gmail.com	6370999430	2006-06-13	Female	847778283994	Ganjam, Goudadhepa	Kabisurya Nagar	Odisha	650089	2000.00	2025-02-18 02:54:24	Active
8	330010562	Kenhu	Madhab	kenhumadhbab118@gmail.com	9114330789	1994-08-17	Male	847778383994	Jagnath Nagar	Jinskpur	Odisha	330948	20.10	2025-02-20 15:53:42	Active
9	330010565	Utu	panda	litupanda987@gmail.com	7735898660	2007-05-05	Other	847328283994	Tripuri Nagar	Kontipur	Odisha	870089	1030.56	2025-02-20 18:26:13	Active
10	330010568	Pradeep	Sahu	pradeepsahu78@gmail.com	8115463301	2010-09-03	Male	773452637364	Maaluani Mandir	Berhampur	Odisha	760009	970.00	2025-02-22 23:20:11	Active
11	330010573	Mohan	Das	mohandas223@gmail.com	6350750888	1869-10-02	Male	734467487384	Porbandar	Porbandar	Gujarat	450009	1984020.00	2025-02-23 16:39:35	Active
12	330010575	Dinesh	Mahap...	dinesh123@gmail.com	6370999566	2024-02-07	Male	760097388787	Borani	Kabisurya Nagar	Odisha	780009	700.44	2025-02-24 12:59:37	Active
14	330010578	Resma	Sahu	resma123@gmail.com	7736793765	2004-11-01	Female	768828283990	khjli	Aska	Odisha	780009	22391.00	2025-02-24 14:25:38	Active
15	330010579	Aditya	panifrahi	aditya114@outlook.com	7778889393	2020-09-01	Male	7778889393	Nrusingha Nagar	Berhampur	Odisha	760008	4710.00	2025-02-27 19:13:57	Active
16	330010584	Murali	Sahu	murali998@gmail.com	8172637363	2020-03-22	Male	7778894747	Pandhana Nagar	Berhampur	Odisha	760002	3000.00	2025-02-27 19:26:44	Inactive
17	330010586	Tyaani	Sahu	tyaanis958@outlook.com	7756594087	2006-09-14	Female	785989408790	Mentu Chaka	Berhampur	Odisha	760005	22136.00	2025-03-01 00:16:46	Active
18	330010588	Trayom	Sahu	trayom223@outlook.com	6375950788	2006-09-04	Male	785989408536	Mentu Chaka	Berhampur	Odisha	760005	1843.00	2025-03-01 09:23:00	Active

Table 1

The screenshot shows the MySQL Workbench interface with a query results window titled 'Query 1'. The query executed is 'select * from netbanking'. The results are displayed in a grid format with 18 rows of data. The columns include sno, acno, username, password, created_at, and status. The data represents user accounts with their login credentials and creation timestamp.

sno	acno	username	password	created_at	status
5	330010545	kangana444@	12345	2025-02-16 16:56:37	active
6	330010553	sandeep123@	1234	2025-02-17 16:58:01	active
7	330010565	litupanda987@	1122	2025-02-20 18:38:24	active
9	330010567	hieed	123	2025-02-21 23:01:40	active
10	330010568	pradeep567@	1234	2025-02-22 23:23:58	active
11	330010543	dipos58@	dipak1234	2025-02-22 23:30:50	active
12	330010573	mohandas1869	1869	2025-02-23 16:55:28	active
13	330010575	dinesh545@	1234	2025-02-24 13:03:37	active
14	330010578	resma123@	1234	2025-02-24 14:29:28	active
15	330010579	aditya@123	1234	2025-02-27 19:14:35	active
16	330010584	murali@1444	12345678	2025-02-27 19:34:40	active
17	330010586	tyaanis@123	1234	2025-03-01 00:39:59	active
18	330010588	trayom@123	1234	2025-03-01 09:30:58	active

Table 2

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Query 1

```
1 select * from transaction_history
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

	id	acno	receiver_acno	amount	date
1	330010545	330010553	2000	2025-03-02 17:03:59	
2	330010545	330010565	200	2025-03-02 17:04:13	
3	330010573	330010578	20000	2025-03-02 17:04:52	
4	330010586	330010588	323	2025-03-02 17:05:45	
5	330010586	330010588	20	2025-03-02 17:12:37	
6	330010586	330010565	1	2025-03-02 17:12:53	
7	330010586	330010548	20	2025-03-02 17:20:10	
8	330010575	330010579	200	2025-03-02 17:21:01	
9	330010575	330010568	100	2025-03-02 17:21:21	
10	330010553	330010565	50	2025-03-02 17:21:51	
11	330010548	330010578	1000	2025-03-02 17:22:22	
12	Bank	330010545	1000	2025-03-02 17:26:04	
13	330010549	Bank	200	2025-03-02 17:26:41	
*	NULL	NULL	NULL	NULL	

transaction_history 4 x

Apply Revert

Table 3

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Query 1

```
1 select * from update_requests
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

	id	acno	column_name	old_value	new_value	request_status	requested_at
1	330010586	gender	Female	Male	Approved	2025-03-09 17:15:37	
2	330010586	frame	Tyaani	Miss Tyaani	Approved	2025-03-09 17:17:25	
3	330010586	gender	Male	Female	Rejected	2025-03-09 17:19:19	
4	330010588	phone	6375950788	9935861620	Pending	2025-03-22 15:19:19	
*	NULL	NULL	NULL	NULL	NULL	NULL	

update_requests 1 x

Apply Revert

Table 4

System Testing

System testing is a crucial phase in the implementation process of the **FinTrust Bank Management System**, ensuring the accuracy, security, and efficiency of the system before its full deployment. It involves executing various test cases to uncover errors and deficiencies while verifying that the system meets functional requirements and user expectations. The primary objective is to guarantee quality assurance, particularly in handling financial transactions securely and efficiently.

Types of Testing Performed :

1. Unit Testing

Unit testing focuses on individual modules of the system, such as user authentication, account management, transaction processing, and balance checks. Each module is tested separately to detect coding errors, logic flaws, and data validation issues. The key areas covered include:

- Verifying correct user login and authentication processes.
- Ensuring transactions process correctly, including fund transfers and balance updates.
- Checking that all fields accept only valid input types and prevent invalid data entry.
- Testing form validations to ensure incorrect data is not submitted.
- Ensuring error messages and notifications are displayed correctly when needed.

2. Integration Testing

Integration testing ensures that all modules function together as a cohesive system. In the **FinTrust Bank Management System**, this includes verifying:

- The seamless interaction between **user accounts, net banking, and transaction history**.
- Accuracy in reflecting account balance changes after transactions.
- The integrity of data transmission between the user interface and the backend database.
- Ensuring that one module's functionality does not negatively impact another.
- Verifying the connection and response time between different system components.

For example, when a user initiates a fund transfer, integration testing ensures that:

1. The sender's balance is deducted appropriately.
2. The receiver's balance is updated correctly.
3. The transaction is logged in the **transaction_history** table.
4. The correct confirmation messages are displayed.
5. There is no loss of data during the transfer process.

3. Security Testing

Security is paramount in banking applications. Security testing in this system involves:

- **User Authentication:** Ensuring that only authorized users can access accounts.
- **Data Encryption:** Protecting sensitive data such as passwords and transaction details.
- **SQL Injection & XSS Prevention:** Preventing attacks that could compromise account security.

- **Session Management:** Ensuring user sessions are secure and automatically logged out after inactivity.
- **Two-Factor Authentication (2FA):** Validating user identity with an extra layer of security.
- **Penetration Testing:** Simulating cyber-attacks to check for vulnerabilities in the system.

4. Performance Testing

To ensure efficiency, the system undergoes performance testing under different conditions:

- **Load Testing:** Checking system behavior when multiple users perform transactions simultaneously.
- **Response Time Testing:** Ensuring quick transaction processing and balance retrieval.
- **Stress Testing:** Evaluating system performance under extreme loads to prevent crashes.
- **Scalability Testing:** Ensuring the system can handle an increasing number of users over time.
- **Database Performance:** Optimizing database queries to ensure fast data retrieval and transaction logging.

5. User Acceptance Testing (UAT)

User Acceptance Testing ensures the system meets customer needs and expectations. Real-world scenarios are tested, such as:

- Account registration and activation by the admin.
- Performing fund transfers between different accounts.
- Checking balance and transaction history accuracy.
- Ensuring easy navigation and error-free interaction with the UI.
- Validating the correctness of generated reports and statements.
- Testing for compliance with banking regulations and policies.

Test Reports

Ensuring accountability and transparency is vital in every IT project, especially in banking. Various reports are generated at different phases of testing to track progress, detect issues, and ensure the system is functioning optimally.

Daily Status Reports :

A daily status report includes:

- Summary of completed test cases.
- Planned test cases for the next testing phase.
- Any challenges encountered and their resolution status.
- Required inputs for the next phase of testing.
- Status of defect resolution and any pending issues.
- Notes on any system crashes, unexpected behaviors, or slowdowns observed during testing.

Software Testing Life Cycle (STLC) Reports

1. **Test Plan Status:** Updates regarding the test plan's creation and modifications.
2. **Test Documentation Status:** Reports on progress in designing test cases, collecting test data, and executing tests.
3. **Test Execution Status (Defect Status):**
 - List of test cases executed.
 - Number of test cases passed/failed.
 - Details of defects encountered and resolution timelines.
 - Banking-specific defects, such as transaction failures, incorrect balance updates, or security vulnerabilities.
 - Summary of issues related to system performance, security risks, or integration errors.
 - Any compliance-related concerns identified during testing.

Regular meetings are held to discuss test reports and ensure the system is ready for deployment with minimal risks. The goal is to ensure a seamless banking experience for both customers and administrators by proactively addressing any potential weaknesses before launch.

CONCLUSION

The development and implementation of the **FinTrust Bank Management System** have been a significant step toward enhancing efficiency, security, and user convenience in banking operations. Through meticulous planning, rigorous testing, and dedicated collaboration, we have successfully built a robust system that streamlines financial transactions, strengthens account management, and provides seamless access to banking services for both users and administrators.

This project is not just a technological advancement but also a commitment to modernizing banking operations while ensuring data integrity and security. With features tailored to meet the diverse needs of customers and administrators—such as secure fund transfers, transaction tracking, net banking integration, and real-time account management—**FinTrust Bank Management System** stands as a testament to our dedication to innovation and financial excellence.

As we move forward, we acknowledge the need for continuous monitoring, user feedback, and system enhancements to keep pace with evolving banking requirements. With a strong focus on security, efficiency, and user satisfaction, we are confident that our banking management system will continue to serve as a cornerstone of digital banking, ensuring smooth and reliable financial operations for all stakeholders.

REFERENCES

1. **Oracle Documentation**
 - o [Oracle Java Documentation](#) (For Java SE, JDBC, and Servlet)
 - o [Oracle MySQL Documentation](#) (For SQL and database management)
2. [MDN Web Docs](#) (For HTML, CSS, JavaScript)
3. [W3Schools](#) (Basic web development resources)
4. ChatGPT