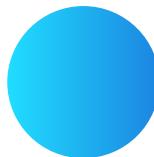




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# ***verbwire : Blockchain Risk Management***





## **TEAM DETAILS**

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# **PROBLEM STATEMENT**

**Blockchain Risk Management:** Build a blockchain system for BFSI (Banking, Financial Services, and Insurance) to track financial transactions, prevent fraud, and automate processes like claim settlements and loan disbursements using smart contracts. Ensure regulatory compliance and provide real-time dashboards for monitoring and role-based access.

# TECH STACK

## Frontend

- HTML & CSS: For structuring and styling the user interface.
- Bootstrap: For responsive and visually appealing design.
- JavaScript: To add interactivity and dynamic behavior.

## Backend

- PHP: For server-side logic and handling user requests.
- MySQL: For database management to store user and health data.

## Blockchain Integration

- Verbwire API: For integrating blockchain to ensure secure, tamper-proof storage of sensitive health data.

## Development Tools

- phpMyAdmin: For managing the MySQL database.
- XAMPP: For creating a local server environment.
- VS Code: For efficient coding and debugging.



# ***Proposed Solution***

01

Utilize blockchain for secure,  
immutable records.

02

Transparent tracking of loans, claims,  
and approvals.

03

Integration with a relational database  
for efficient data management.

04

Enhanced user trust through  
decentralization.

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•  
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# Features



## Loan Management:

- Apply for loans with document uploads.
- Transparent status tracking

## Claims Processing:

- Submit claims with supporting documents.
- Automated status updates.

## Blockchain Integration:

- Ensures data integrity and trust.

*User Accounts: Secure registration and login.*



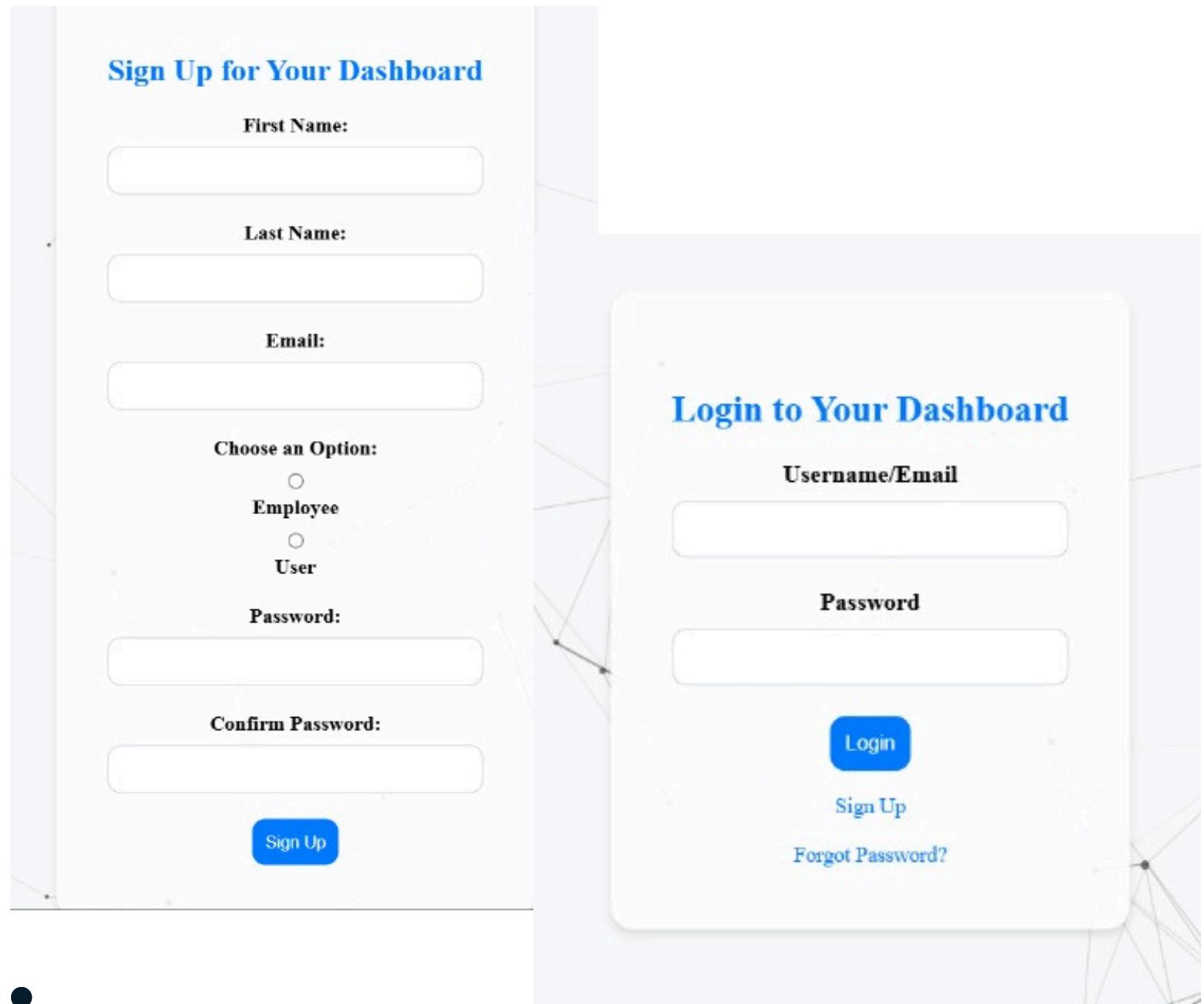
# Workflow

- Step 1: User registers and logs in.
- Step 2: User applies for loans or submits claims.
- Step 3: Data is stored in MySQL and verified via blockchain.
- Step 4: Admin reviews and updates statuses.
- Step 5: Blockchain ensures immutable records.

## *Benefits of Our Solution*

- Security: Blockchain ensures tamper-proof records.
- Transparency: Users can track their applications in real-time.
- Efficiency: Automated workflows reduce processing time.
- Scalability: Can handle increasing user data with ease.

# System Screenshots



**Sign Up for Your Dashboard**

First Name:

Last Name:

Email:

Choose an Option:

Employee

User

Password:

Confirm Password:

**Login to Your Dashboard**

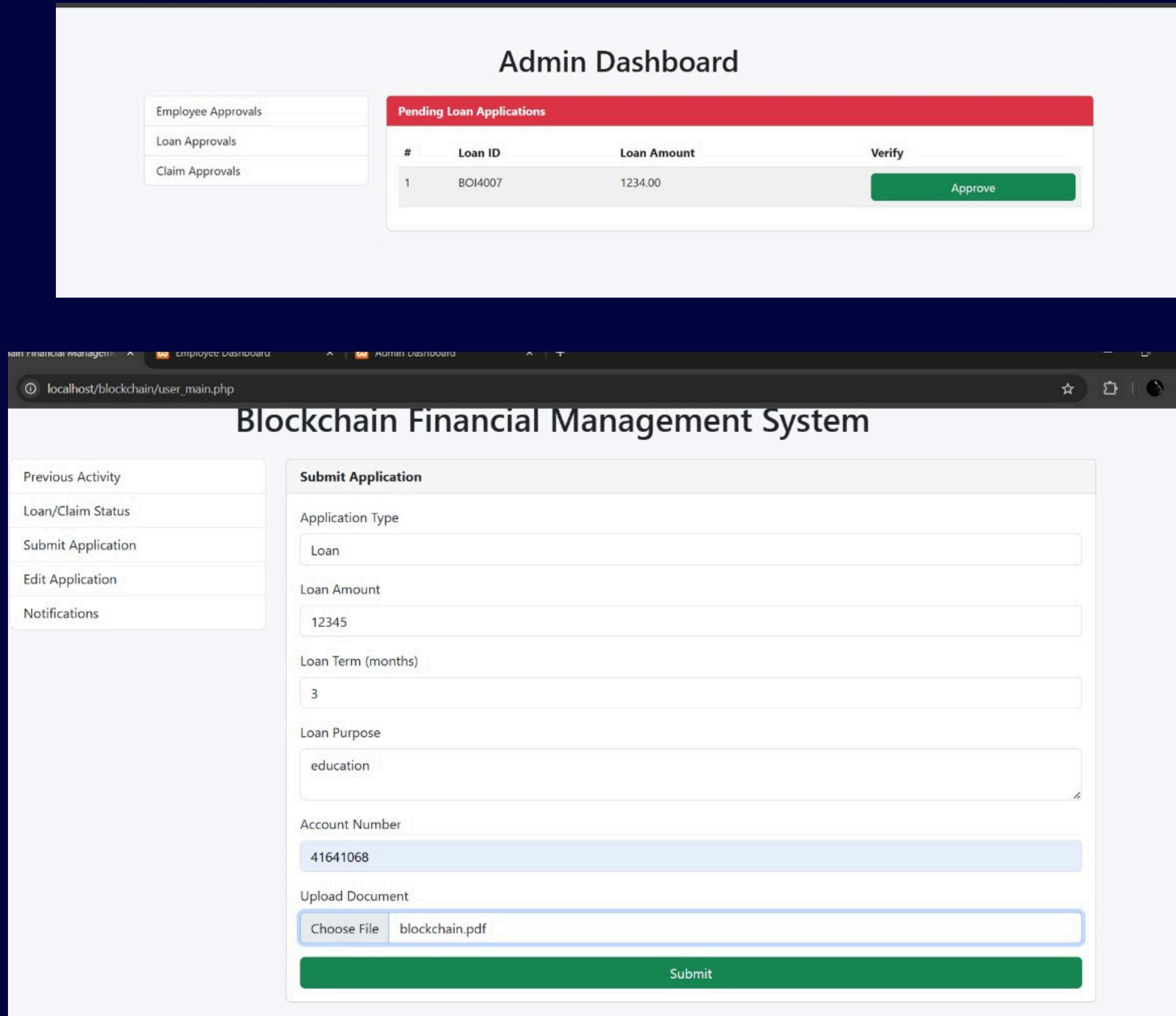
Username/Email

Password

**Login**

**Sign Up**

[Forgot Password?](#)



**Admin Dashboard**

Employee Approvals

Loan Approvals

Claim Approvals

**Pending Loan Applications**

#	Loan ID	Loan Amount	Verify
1	BOI4007	1234.00	<b>Approve</b>

**Blockchain Financial Management System**

localhost/blockchain/user\_main.php

Previous Activity

Loan/Claim Status

Submit Application

Edit Application

Notifications

**Submit Application**

Application Type  
 Loan

Loan Amount  
12345

Loan Term (months)  
3

Loan Purpose  
education

Account Number  
41641068

Upload Document  
Choose File blockchain.pdf

**Submit**



# System Screenshots

## Employee Dashboard

Loan Approvals

Pending Loan Applications

#	Loan ID	Loan Amount	View	Verify	Reject
1	BOI4007	1234.00	<a href="#">View</a>	<a href="#">Verify</a>	<a href="#">Reject</a>
2	BOI6727	1234.00	<a href="#">View</a>	<a href="#">Verify</a>	<a href="#">Reject</a>

Claim Approvals

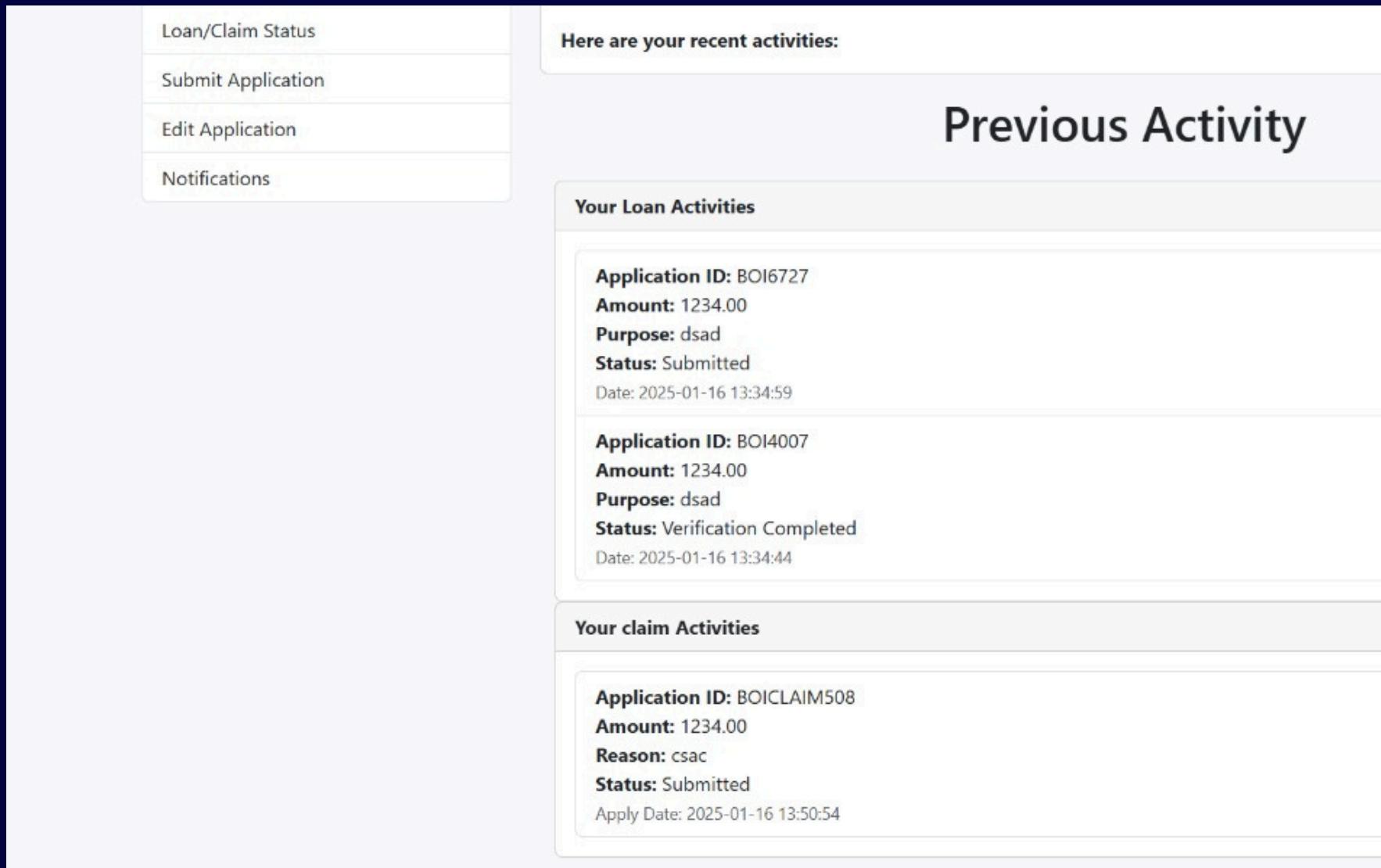
## Employee Dashboard

Loan Approvals

Pending Claim Applications

#	Claim ID	Claim Amount	Claim Reason	View	Verify	Reject
1	BOICLAIM508	1234.00	csac	<a href="#">View</a>	<a href="#">Verify</a>	<a href="#">Reject</a>

# System Screenshots



Loan/Claim Status

Submit Application

Edit Application

Notifications

Here are your recent activities:

## Previous Activity

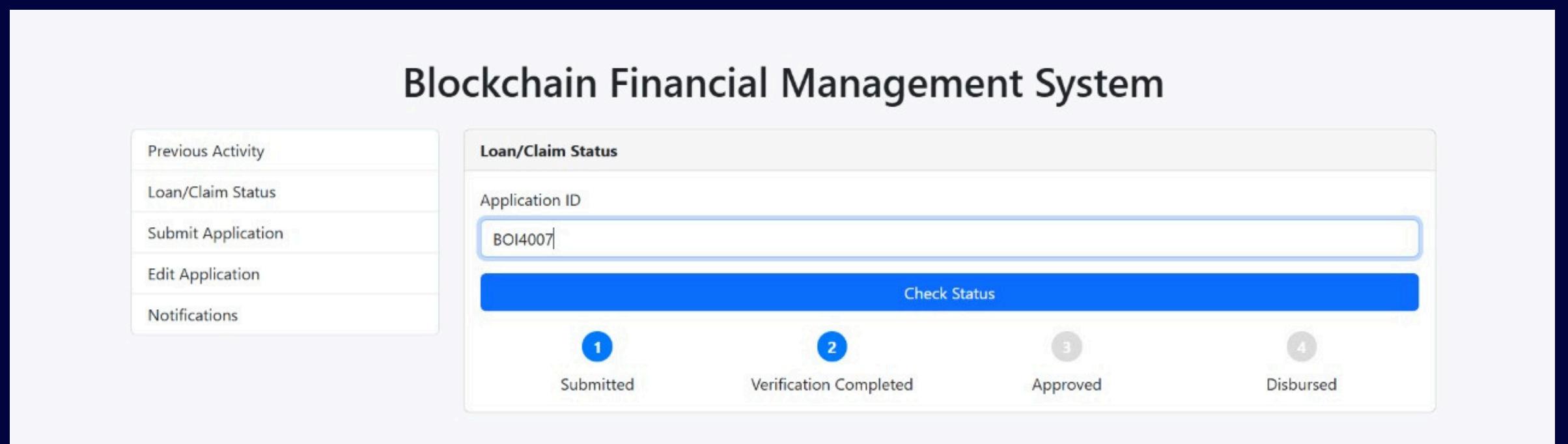
Your Loan Activities

**Application ID:** BOI6727  
**Amount:** 1234.00  
**Purpose:** dsad  
**Status:** Submitted  
Date: 2025-01-16 13:34:59

**Application ID:** BOI4007  
**Amount:** 1234.00  
**Purpose:** dsad  
**Status:** Verification Completed  
Date: 2025-01-16 13:34:44

Your claim Activities

**Application ID:** BOICLAIM508  
**Amount:** 1234.00  
**Reason:** csac  
**Status:** Submitted  
Apply Date: 2025-01-16 13:50:54



## Blockchain Financial Management System

Previous Activity

Loan/Claim Status

Submit Application

Edit Application

Notifications

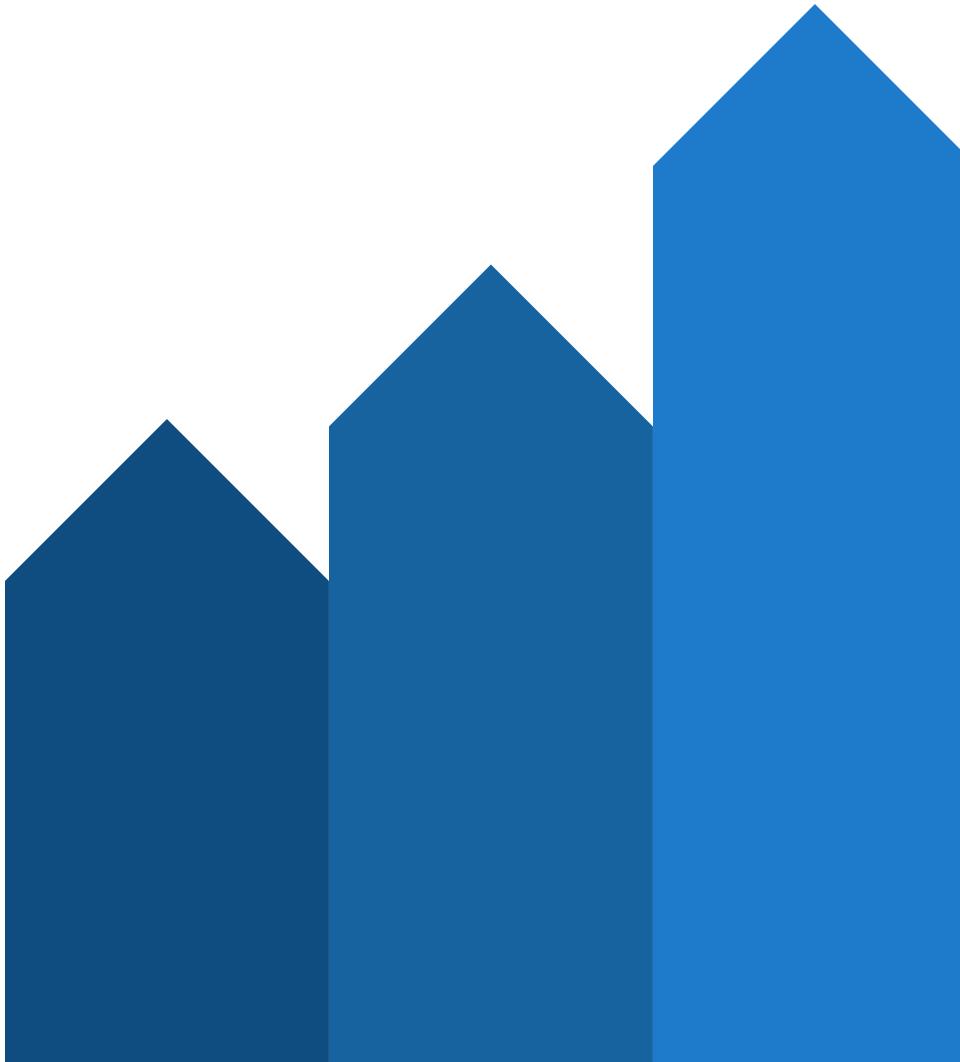
Application ID

BOI4007

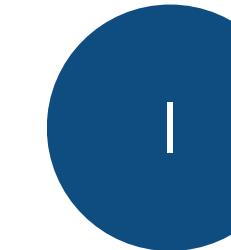
Check Status

1 Submitted      2 Verification Completed      3 Approved      4 Disbursed

# Future Scope



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## Integration with AI for Enhanced Security:

- Use AI-driven algorithms to detect fraudulent activities and enhance the security of blockchain transactions.



## Expansion to Decentralized Finance (DeFi):

- Enable smart contracts and DeFi applications to provide transparent and automated financial services.



## Cross-Border Financial Solutions:

- Facilitate seamless, secure, and low-cost international transactions using blockchain technology.

***Thank  
You...!***

