



# SWIFT BANK

*Fast, Simple and Secure Banking !!*

**Team Members:**

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# Project Overview

- Swift Bank is a cutting-edge, secure digital banking solution focused on enhancing financial transaction.
- It offers a safe and seamless platform for users to manage accounts and conduct transactions.

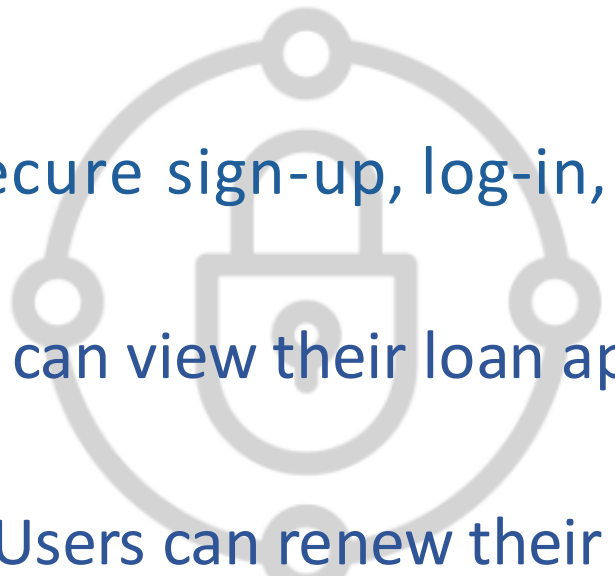


# Objectives

- **Secure Transactions:** Implement encryption and protection for financial transactions.
- **Insurance Services:** Provide comprehensive coverage options for home, life, motor, and general insurance.
- **Loan Management:** Simplify loan application and approval for home, car, education, business, and property-backed loans.
- **System Optimization:** Ensure the system is efficient and scalable to handle more users and transactions.



# Functional Requirements

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- **User Authentication:** Secure sign-up, log-in, and log-out.
  - **Loan Management:** Users can view their loan applications.
  - **Insurance Management:** Users can renew their insurance policies.
  - **Balance Updates:** Update account balance after each transactions.

# Non-functional Requirements

- **Compliance:** Ensure that the system complies with relevant financial and insurance regulations and standards.
- **Scalability:** The system should be able to scale to accommodate more users and transactions as demand increases.
- **Reliability:** The program validates inputs to ensure error-free operations.

# System Architecture

- User Input: Users interact with the system through a menu-based interface.
- Processing Unit: The core logic handles user actions:
  - Deposit: Adds the specified amount to the account balance.
  - Withdraw: Validates balance before allowing withdrawal.
- Data Management: Updates and maintains account balance during transactions
- Output: Displays transaction results .
- System Exit: Exits the Program.



# Technology Used

- **Programming Language:**



- **Platform:** Command-Line Interface (CLI)
- **Tools/Compiler:** GCC (GNU Compiler Collection)

# Data Requirements



- **Type of Data:**

**User Information:** Credentials such as username and password for secure access.

**Account Details:** Includes account number, balance, and transaction history.

- **Data Sources:**

Data is entered directly by users through the **Command-Line-Interface (CLI)**.

- **Data Storage and Format:**

Data is stored and managed in structured **text-based files** (e.g.,.txt) for easy access and processing.



# Assumptions and Constraints

- Users provide accurate data.
- Users have a stable internet connection.

## Constraints:

- Accuracy depends on data quality.
- Latency may occur with large real-time data.

# Timeline and Milestones

- **Phase 1: Requirement Gathering and Design** (4th Nov to 7th Nov)  
**Milestone 1:** Completed requirement gathering and finalized the design.
- **Phase 2: Development** (8th Nov to 16th Dec)  
**Milestone 2:** Completed development with all core features.
- **Phase 3: Testing** (17th Dec to 18th Dec)  
**Milestone 3:** Successfully completed testing, with all tests passed.
- **Phase 4: Review and Feedback**(19th Dec)  
**Milestone 4:** Incorporated feedback and made necessary adjustments
- **Phase 5: Final Presentation and Submission** (20th Dec)  
**Milestone 5:**

# References

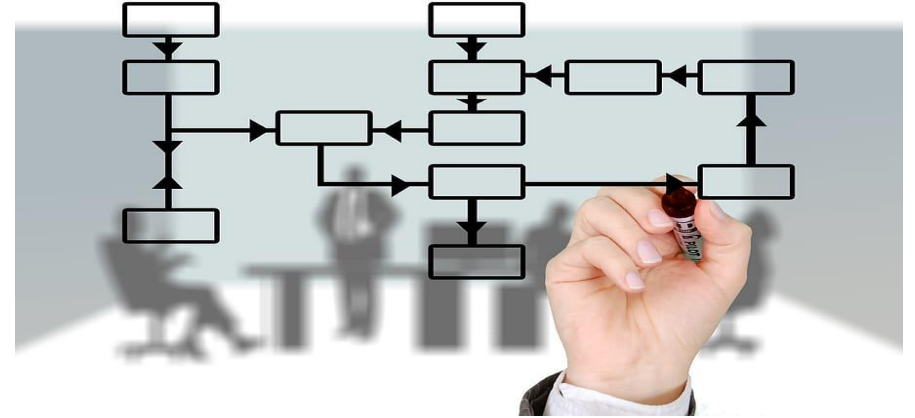
- [Let Us C by Yashavant Kanetkar.](#)

**Additionally, for websites ,**

- [GeeksforGeeks](#)
- [TutorialsPoint](#)



# Appendices



- **Flowchart For USER Login**

*Start → User enter credentials → Validate credentials → Success*

- **Activity Diagram**

*User Activity:*

*Log in → Choose transaction → Enter details → Confirm → Transaction completed.*