

Core Java Project Proposal

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| **Only for course Teacher** | | | | |  |
|  | **Needs Improvement** | **Fair** | **Good** | **Excellent** | **Total Mark** |
| **Level of Content** |  |  |  |  |  |
| **Content Development** |  |  |  |  |  |
| **Spelling & Grammar** |  |  |  |  |  |
| **Format** |  |  |  |  |  |
| **Comments** |  |  |  |  |  |
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**Semester: Fall - 2023**

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**Batch: 37th Section: A**

**Course Code:** SE221

**Course Name:** Object Oriented Design

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**Designation**: Lecturer

Date: 23/11/2023

**Introduction**

**Title**

Basic Banking System

**Project Purpose**

The Basic Banking System using Core Java is a software application designed to facilitate fundamental banking operations such as account management, fund transfers, and balance inquiries. This project aims to create a user-friendly and efficient banking system using Core Java, ensuring a robust foundation for future enhancements and integration.

### Objectives

#### **Primary Objectives**

* **Account Management:** Allow users to create, update, and delete bank accounts.
* **Search History:** Maintain a record of all transactions for viewing purposes.
* **Fund Transfers:** Enable users to transfer funds between accounts securely.
* **Balance Inquiry:** Provide users with the ability to check their account balances.

#### **Future Objectives**

* **Security Features:** Implement authentication mechanisms to ensure the security of user accounts and transactions.
* **User Interface:** Develop an intuitive and user-friendly interface for seamless interaction.
* **Error Handling:** Implement robust error handling mechanisms to enhance the reliability of the system.
* **Extensibility:** Design the system to allow easy integration with future modules or enhancements.

**Scope**

The Basic Banking System will focus on the following key features:

* **Account Operations:** Users can create new accounts, update existing account information.
* **Search History:** Maintain a detailed log of all transactions for reference and auditing purposes.
* **Fund Transfer:** Facilitate secure and real-time fund transfers between accounts.
* **Balance Inquiry:** Allow users to check their account balances at any time.

**Technologies and Tools**

The project will be developed using Core Java, ensuring platform independence and ease of maintenance. The following technologies and tools will be utilized:

* **Java SE:** Core programming language for application development.
* **MySQL:** Database management system for storing and retrieving account information.
* **Eclipse:** Integrated Development Environment (IDE) for Java development.
* **Link:**

**Project Timeline**

The project will be divided into the following phases:

1. **Requirements Gathering (1 week):** Gather and analyse the requirements from stakeholders.
2. **Design and Planning (2 weeks):** Create the system architecture, database schema, and user interface design.
3. **Implementation and Testing (2 weeks):** Develop the core functionalities of the Basic Banking System using Core Java.
4. **Documentation (1 week):** Prepare comprehensive documentation for end-users and developers.
5. **Deployment (1 week):** Deploy the system in a controlled environment and provide training to end-users.
6. **Maintenance and Support (Ongoing):** Address issues, implement updates, and provide support as needed.

### Conclusion

The Basic Banking System using Core Java will provide a solid foundation for a scalable and extensible banking application. By adhering to industry best practices and ensuring user security, the system will contribute to a positive user experience in managing their financial transactions.