MCA Semester – IV
Interim Report

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Elective	Full Stack Development
Date of Submission	Not yet decided

Project Title

Research Project submitted to Jain Online (Deemed-to-be University)
In partial fulfillment of the requirements for the award of:

Master of Computer Applications

Submitted by

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*Under the
guidance of*

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DECLARATION

I, *Prasanna Deshpande,* hereby declare that this Project Report has been prepared by me under the guidance of *Mr. Chandra Bhanu.* I declare that this Project is towards the partial fullfillment of the credit   "   "   "   " Ec   "R   . which is part of the Master of Computer Applications degree given by Jain University, Bengaluru. I declare that the work done by me towards this Project is original in nature and is my own contribution.

Place: Mumbai, Maharashtra   *Prasanna Deshpande*
_____

Date: *222VMTR00282*

EXECUTIVE SUMMARY

This interim report details the progress and current state of the banking app project, which is designed to cater to two distinct types of users: Customers and Admins. The application aims to provide a comprehensive set of functionalities for both user types, facilitating essential banking operations and administrative tasks. For customers, the app includes features such as viewing transactions, adding beneficiaries, and transferring money. For admins, it offers capabilities like viewing customer details, performing account openings, and managing transactions. The application is structured with a clear separation of concerns, utilizing distinct packages for different layers and adhering to best practices in UI design and API integration.

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1.Introduction

- **Overview:** The banking app project is designed to provide a seamless user experience for both customers and admins, facilitating essential banking operations through a web-based application.

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- **Problem Statement:** The application aims to address the need for an integrated banking solution that allows customers to manage their finances effectively and enables admins to perform critical administrative tasks.

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- **Relevance:** This project is relevant in the field of Full Stack Development as it encompasses a wide range of functionalities, including user authentication, transaction management, and administrative operations, reflecting real-world banking systems.

2. Project Scope and Objectives

☐ **Scope:** The project includes functionalities for both customers and admins, with a clear distinction between their roles and capabilities. The scope covers user authentication, transaction management, account operations, and administrative tasks.

☐ **Objectives:**
- **Customers:** Enable viewing of transactions, adding and managing beneficiaries, transferring money, and updating personal information.
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- **Admins:** Allow viewing customer details, performing account openings, managing transactions, and conducting KYC verification.
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☐ **Constraints:** Implementation must adhere to proper API usage, error handling, and database normalization. The project should use a chosen RDBMS and follow specified guidelines for UI design and functionality.

3. Methodology

☐ Methodologies and Frameworks: The project utilizes a layered architecture with separate packages for controllers, services, and data access. Agile methodologies are employed for iterative development and continuous feedback.

☐ Development Process: The development follows a structured approach, including requirement analysis, design, implementation, testing, and deployment phases.

☐ Technologies Used: The application leverages modern web technologies for frontend development, backend frameworks for server-side logic, and a relational database (e.g., MySQL) for data storage.

4. System Architecture and Design

- Architecture: The system follows a layered architecture with distinct layers for presentation, business logic, and data access.

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- Design Principles: The design adheres to common architectural patterns such as MVC (Model-View-Controller) and employs design principles like separation of concerns and modularity.

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- Diagrams: Diagrams illustrating the system's components, interactions, and data flow will be included in the final report, providing a visual representation of the system architecture.

5. Progress and Accomplishments

☐ Progress: Significant milestones include the completion of user authentication modules, basic customer and admin functionalities, and initial UI design.

☐ Tasks Completed:

- User login and registration functionalities are operational.
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- Basic customer functionalities, including viewing transactions and adding beneficiaries, have been implemented.
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- Admin functionalities, including account opening and transaction management, are in progress.
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☐ Challenges: Challenges encountered include integrating third-party authentication tools and ensuring proper data validation.

6. Future Work and Timeline

☐ **Remaining Tasks:**

- **Finalize the implementation of admin functionalities, including KYC verification and advanced transaction management.**

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- **Complete UI design and ensure responsiveness across devices.**

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- **Conduct thorough testing to identify and resolve bugs.**

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☐ **Timeline: A detailed Gantt chart will be provided, outlining the schedule for remaining development phases, including testing, deployment, and project review.**

☐ **Potential Risks: Risks include potential delays in integrating third-party tools and challenges in ensuring data security and validation.**

7. Conclusion

The interim progress of the banking app project reflects substantial advancement in both customer and admin functionalities. The project is on track to meet its objectives, with ongoing efforts to address challenges and complete remaining tasks. The final report will provide a comprehensive overview of the completed functionalities, system architecture, and future steps towards successful project completion.