WEEK 04 INTERNSHIP PROGRESS REPORT

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Internship Program: Core Java Internship

Institution: USC / UCT

Week: Week 04

Project Title: Banking Information System

1. Introduction

This report documents my activities and progress during **Week 04** of the Core Java Internship program. The focus of this week was on implementing a **Banking Information System** using Java, applying object-oriented programming concepts and basic input/output handling.

2. Tasks Completed

During this week, I successfully completed the following tasks:

- Designed a console-based Banking Information System using Java

- Implemented core banking operations such as:

    o   Balance inquiry

    o   Deposit functionality

    o   Withdrawal functionality

- Used control structures such as loops and switch-case statements

- Applied basic Java concepts including variables, methods, and user input handling

- Tested the program for different user scenarios to ensure correct output

3. Milestones Achieved

- Successfully created and executed a working Java application

- Ensured the system correctly updates account balance after transactions

- Gained practical experience in building a real-world simulation using Java

- Uploaded the project code and report to GitHub as required.

4. Challenges and Hurdles

- Handling invalid user input such as negative numbers

- Ensuring withdrawal operations do not exceed available balance

- Managing program flow to allow repeated transactions without errors

5. Solutions Implemented

- Used conditional statements to validate input values

- Implemented loop structures to allow continuous user interaction

- Added clear user prompts and system messages for better usability

6. Lessons Learned

- Improved understanding of Java control structures and methods

- Learned how to structure a Java program for real-life applications

- Gained confidence in debugging and testing Java programs

- Understood the importance of proper file naming and GitHub repository structure

7. GitHub Repository Links

Code File Link:

https://github.com/BeeDay7/upskillcampus/blob/main/BankingInformationSystem.java

Report File Link:

https://github.com/BeeDay7/upskillcampus/blob/main/BankingInformationSystem_Adedeji_USC_UCT.pdf

8. Conclusion

Week 04 was highly productive and educational. Building the Banking Information System enhanced my practical knowledge of Java programming and strengthened my problem-solving skills. I look forward to applying these skills in more advanced projects in the coming weeks.