

Apex Bank Application

- A FULL-STACK DIGITAL BANKING SYSTEM
- GROUP MEMBERS:
- MERI ALEA
- CHRISTOPHER
- GEORGE MUKIRAI
- BRIAN KIPCHUMBA

INTRODUCTION

- *Apex Bank is a modern web-based banking application designed to provide secure and efficient digital banking services.*
- *It allows users to manage accounts, perform transactions, and apply for loans online.*

PROBLEM STATEMENT

- *Traditional banking systems rely on manual processes and limited digital access.*
- *Apex Bank provides a centralized digital solution.*

• PROJECT OBJECTIVES

- *Build a digital banking platform*
- *Secure authentication*
 - *Account and loan management*
- *Apply full-stack development principles*
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Technology Stack

- FRONTEND: REACT
- BACKEND: FLASK
- DATABASE: SQLITE
- OTHER: REST APIS,
AUTHENTICATION

System Overview

- THREE-LAYER ARCHITECTURE:
- • FRONTEND
- • BACKEND
- • DATABASE

Frontend Overview

- BUILT WITH REACT
- INCLUDES AUTHENTICATION, DASHBOARD, AND MANAGEMENT PAGES

Backend Overview

- FLASK-BASED REST API
- HANDLES BUSINESS LOGIC AND SECURITY

Database Design

- ENTITIES:
- USERS
- ACCOUNTS
- TRANSACTIONS
- LOANS
- BRANCHES

Challenges Faced

- • FRONTEND-BACKEND
INTEGRATION
- • AUTHENTICATION HANDLING
- • DATABASE RELATIONSHIPS

Future Improvements

- • BETTER UI
- • ONLINE DEPLOYMENT
- • ADVANCED SECURITY

Conclusion

- APEX BANK IS A SECURE AND SCALABLE DIGITAL BANKING SYSTEM.

Thank You

- THANK YOU FOR YOUR TIME
AND ATTENTION