Proposal

SQA BankPro

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# Overview

SQA BankPro is a web-based banking management system designed to modernize and streamline banking operations, both for administrative users and customers. The system aims to automate and secure tasks such as account management, transactions, loan applications, and customer interactions to enhance operational efficiency, transparency, and security.

* **Motivation:**  
  The project addresses inefficiencies, errors, and security risks in traditional banking systems by offering a centralized, automated solution.
* **Target Customers:**  
  Banks, financial institutions, bank employees, and customers.
* **Deliverables:**
  + Customer, account, and transaction management
  + Loan and payment tracking
  + Customer query resolution
* **Timeline:**  
  The estimated timeline for development and deployment is approximately 3 to 4 months.
* **Dependencies:**  
  This project does not involve real integrations with banking APIs or payment gateways. Instead, demo transactions and simulated banking operations will be incorporated to demonstrate core functionalities. The system will adhere to regulatory standards to mirror real-world banking solutions.
* **Contributing Projects:**  
  This project utilizes simulated cybersecurity measures, cloud infrastructure for scalability, and conceptual CRM systems to illustrate how these integrations can enhance the customer experience in a real-world application.

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# Project Detail

## Project Goals

The primary objectives of the SQA BankPro project are as follows:

**Functional Goals:**

* Automate and digitize core banking operations such as account management, transactions, loans, and customer queries.
* Provide real-time tracking and reporting of financial activities.
* Ensure smooth integration with existing banking systems (simulated for this project).

**Technological Goals:**

* Develop a web-based platform using modern technologies, including cloud computing and APIs.
* Ensure the platform is scalable and works across multiple devices, including desktop and mobile devices.

**Quality Goals:**

* Ensure robust security with data encryption and fraud prevention mechanisms.
* Achieve 99.9% system availability and high performance.
* Adhere to industry standards and banking regulations.

**Organizational Goals:**

* Provide adequate training to bank staff for using the system.
* Implement modern development methodologies such as Agile and DevOps to improve team collaboration.

**Other Goals:**

* **Usability:** Create an intuitive and user-friendly interface for both employees and customers.
* **Portability:** Design the system to be adaptable to various platforms and environments.

## Project Scope

**In Scope:**

* Core Features: Customer, account, transaction, and loan management; customer query handling.
* Technical: A secure, scalable, cloud-based platform with simulated integrations for APIs.
* Compliance: Adherence to banking regulations.
* User Experience: Intuitive interface with multi-device support.

**Out of Scope:**

* Advanced financial services such as investments or cryptocurrencies.
* Provision of hardware or legacy system replacement (only integration with existing systems).
* Global localization beyond the initial rollout phase.

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## Project Team

Help: List all project team members here and ensure that the time they spend on the project is accounted for in the project.

|  |  |  |
| --- | --- | --- |
| **Name** | **Availability** | **Comment** |
| Arsalan | Full Time | Project Lead |
| Sadaan Qureshi | Full Time | Developer |
| Qasim Naveed | Full Time | UI/UX Designer |
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## Existing Work

Existing banking systems primarily focus on automating core functions such as account management, transactions, and loans. However, many of these systems have complex interfaces and lack intuitive user experiences, making them less accessible for both employees and customers.

**What Makes SQA BankPro Unique?**

1. **Simplified User Experience:**  
   The design is intuitive and user-friendly, enabling easier navigation for both employees and customers.
2. **Regulatory Compliance:**  
   SQA BankPro is built to meet all relevant banking standards, ensuring it aligns with industry regulations.
3. **Real-Time Insights:**  
   The system offers real-time reporting and analytics, providing actionable insights for both users and administrators.

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