APSCHE SMART INTERNZ

Internship Title :- Backend development with node js and

MongoDB – APSCHE LTB3

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Project Title:- Asset-X (A mini bank)

Introduction

Backend Development with Node.js and MongoDB focuses on building scalable, efficient, and dynamic server-side applications. Node.js, a runtime environment built on JavaScript, enables developers to handle server-side operations, APIs, and real-time communication seamlessly. MongoDB, a NoSQL database, provides a flexible and scalable way to store and manage data using a document-based model. Together, they create a powerful tech stack for modern web applications, allowing for fast data exchange and high-performance systems. This combination is ideal for developing APIs, RESTful services, and full-stack applications with real-time capabilities.

Asset-X (A mini bank)

Project Description

Asset-x offers a robust backend infrastructure that powers secure account management, real-time transactions, and user authentication. We prioritize data integrity, encryption, and compliance, ensuring that every financial interaction is protected from unauthorized access. With a user-friendly API and seamless integrations, Bank simplifies banking for individuals and businesses alike.

Each user is provided with a secure and personalized banking experience. From tracking transactions to scheduling payments, our system offers intuitive features that enhance financial control and transparency. Whether you're transferring funds, monitoring account activity, or managing multiple accounts, Your Bank ensures efficiency and security at every step.

Beyond standard banking operations, Asset-x is built for growth and adaptability. Our system is designed to scale, supporting high transaction volumes while maintaining performance and reliability. With continuous improvements and advanced security measures, Bank is the ideal platform for those seeking a modern, digital-first banking experience.

At Asset-x, we are committed to building a financial ecosystem that is not only secure and efficient but also accessible and adaptable to evolving financial landscapes.

Whether you're an individual looking for a safe place to manage your finances or a business requiring a scalable banking solution, Asset-x provides a trusted and seamless banking experience.

Project Outcome - With the help of Bank, Sam will seamlessly withdraw and deposit his money.

Technical Architecture:
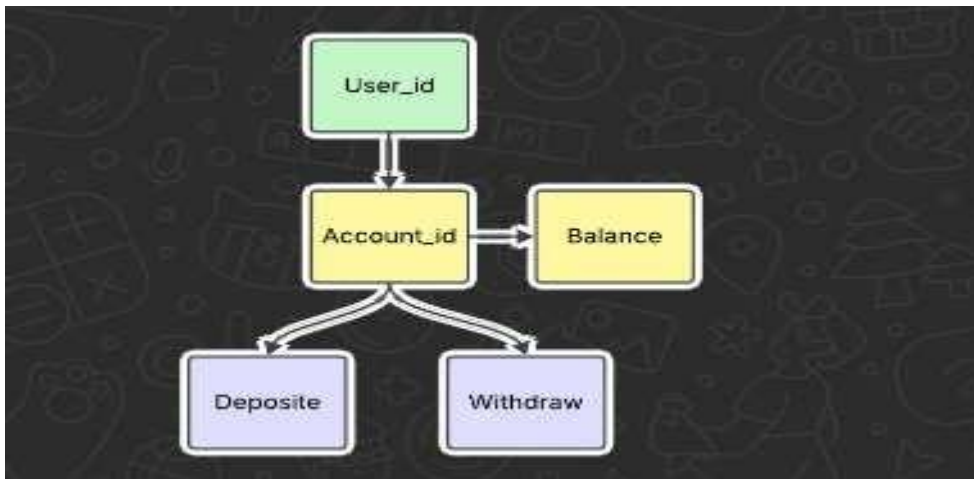
In this technical architecture, Bank consist of API's:

• **User API:** User Api will initially register the user and store's his credentials in the database.

• **Account API:** Account API will create a account for the user on this user id and also generate the account id.

Balance API: This API will Allow the user to get his account balance.

Deposit API: This will initially deposit the Money in the user Account based on the user id.

Withdraw API: Withdraw API help's in withdraw of money from the specified account.

Project Flow Diagram:-

CONCLUSION

Mini bank, offers a comprehensive and secure banking system designed to meet the evolving financial needs of individuals

and businesses. By leveraging advanced technology and a user-friendly interface, Asset-X provides a seamless banking experience, enabling users to manage their finances efficiently and effectively.