SMART INDIA HACKATHON 2024

SIH INTERNAL PS

- **Problem Statement Title**- Upgrading social calc
- **Theme-** Web development
- **PS Category-** Software
- **Team ID-**
- **Team Name :** Code Geass

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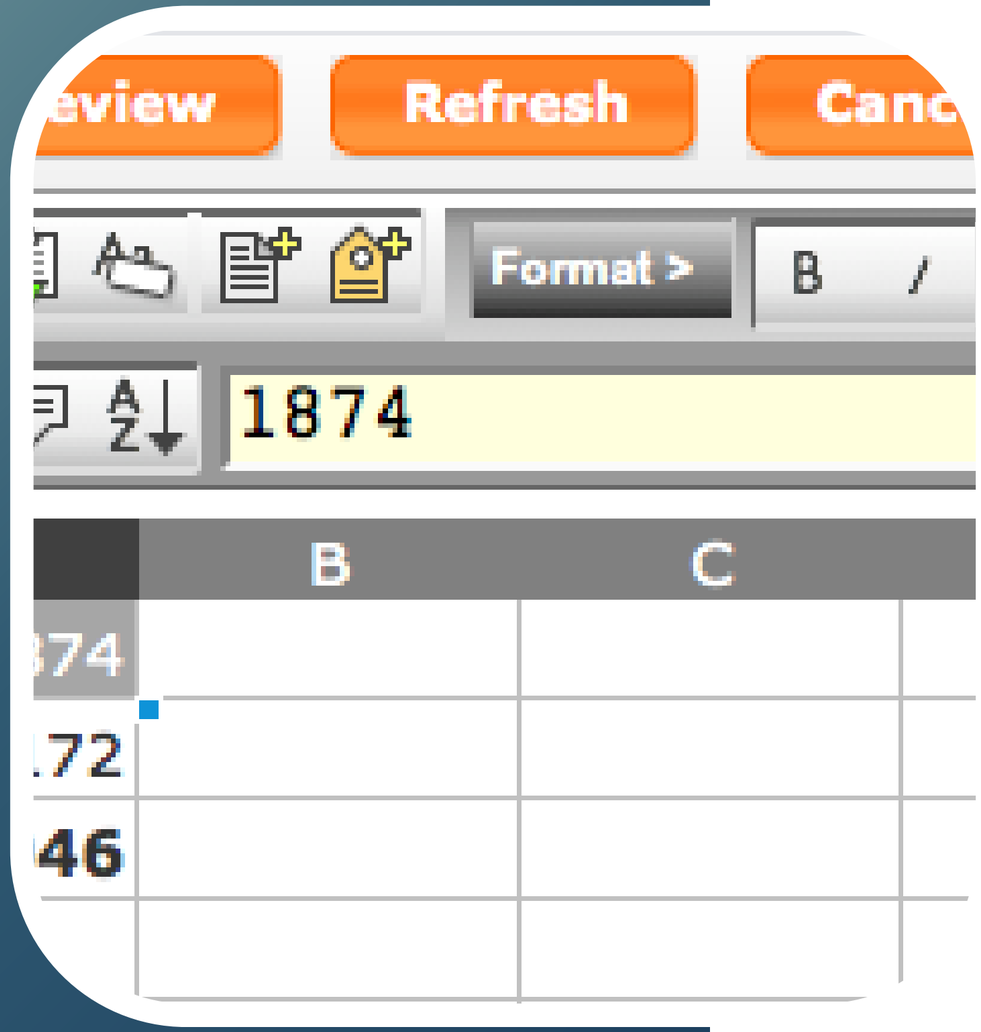

Problems with Social Calc

01 **Bad UI**

Social calc, looks outdated and is hard to use because of it’s lack of functionality.

02 **Can’t edit files remotely**

We can’t change and work on a spreadsheet on the fly.

03 **Missing Collaboration functionality**

Social calc doesn’t allow users to work simultaneously on the same spreadsheet which severely hurts it’s usability for large team projects.

04 **User credentials / projects can’t be stored remotely**

Users can’t login and access the projects that they had been working on earlier.

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Our solution

01 **WebSocket for Real time collaboration**

Real time collaboration allows multiple team members to work simultaneously on the same project.

02 **AI chat bot**

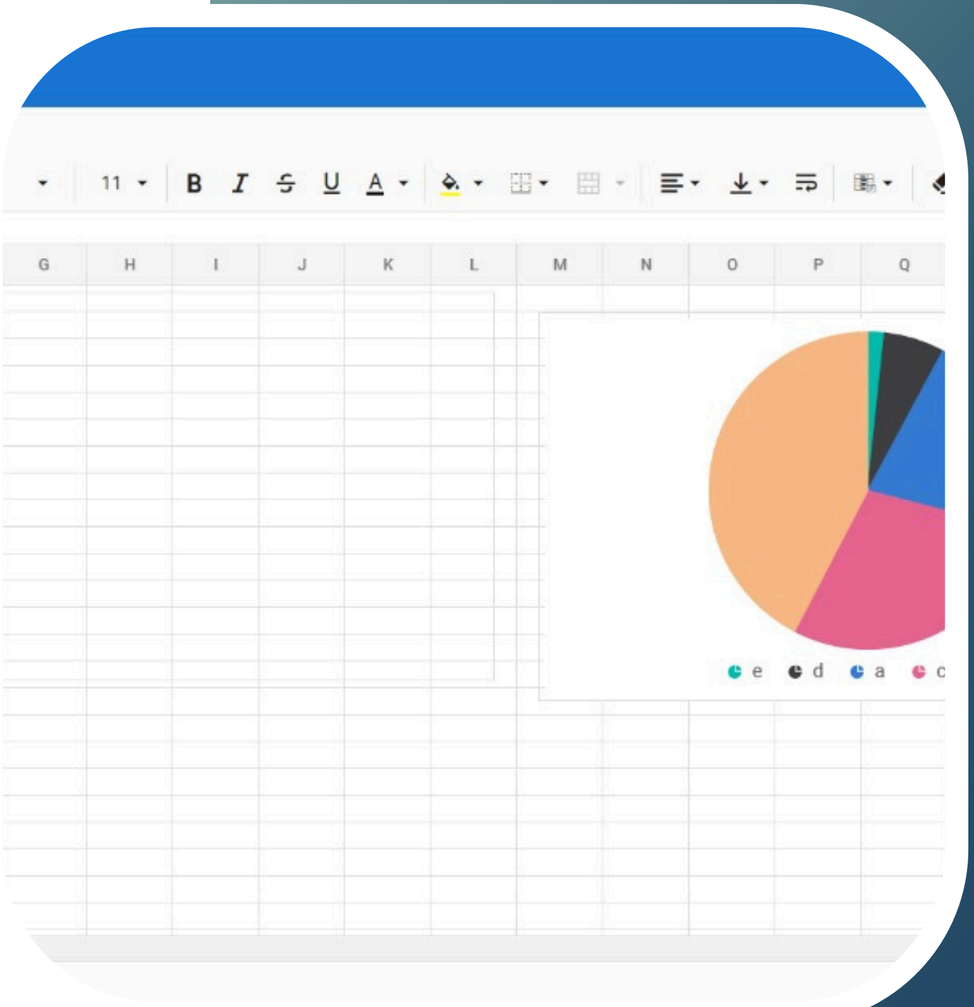
Gemini powered chat bot can be used to ask spreadsheet formulas and suggest solutions thereby, increasing efficiency

03 **User friendly design**

Modern design helps in increased accessibility and functionality with the help of modern spreadsheet features like pie charts, graphs etc.

04 **Modern tech stack React, MongoDB, node.js, Docker etc.**

Modern tech stack enables it scaled up as per demand



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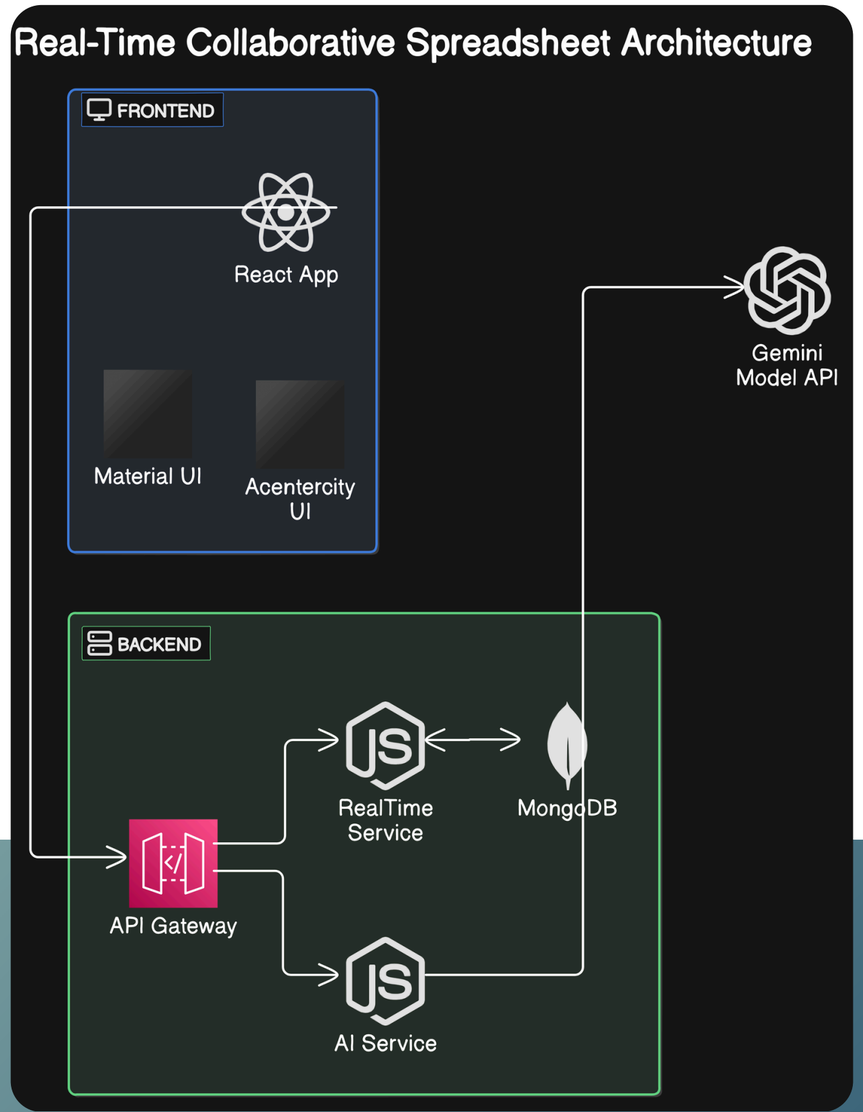
Technical Approach



01 React.js Front end with Mui &Acentercity

02 Gemini powered chat bot

03 MongoDB

04 WebSocket and Node.js

05 Docker and Github

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Business Feasibility & Impacts

01 Increased Competition

Introducing a Google Sheets clone could challenge existing market leaders, encouraging innovation and potentially lowering costs for users as companies compete for market share.

02 Encouragement of Open Standards

A clone could promote the adoption of open formats and interoperability, reducing dependency on proprietary systems and allowing users more flexibility in how they use and share their data.

03 Cost Savings

Offering a more affordable alternative to existing solutions can benefit individuals, small businesses, and educational institutions that require powerful, collaborative tools without the associated costs of premium services.

04 Customization

Users could benefit from a high degree of customization, allowing them to create personalized workflows, macros, or extensions that better suit their specific needs and preferences.

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THANK YOU