TEAM - TERMINAL STACK

SIH '24 INTERNAL ROUND

Our Team

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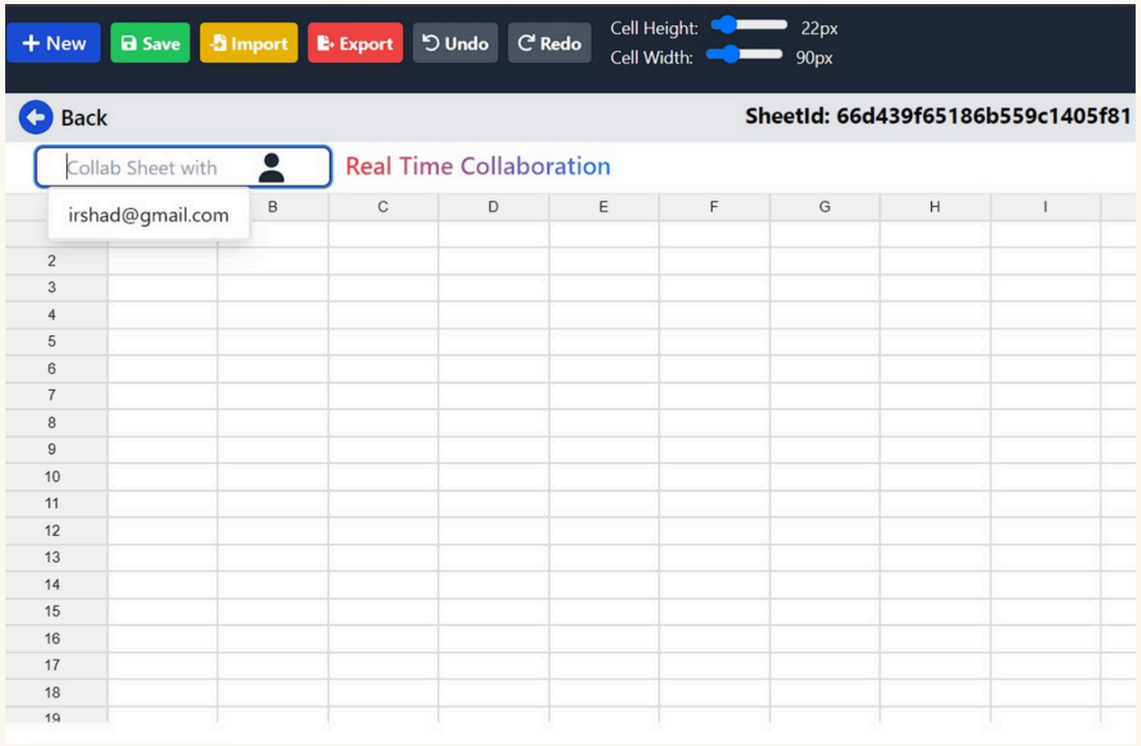
Problem statement

Building a modern version of SocialCalc using Node.js , Go, or Django can use AI tools like copilot



an improved version is here !

Why rebuild?

SocialCalc, once an innovative web-based spreadsheet for collaborative editing,is now outdated. Redeveloping it with modern frameworks like Node.js , Express.js , Go can improve performance, scalability, and security.

SOLUTIONS PAGE

Countering the problem in social calc by aiming for seamless collaboration with improved performance

- Easily Manageable Data
- You can now get, send, and delete data quickly and easily.
- You can now Work Together in Real-Time
- Everyone can see changes instantly as they happen.
- Collaboration is now smooth and seamless.
- Data is stored safely and can be accessed whenever needed.
- The system ensures that data is always up-to-date.

Frontend:

- React.js for an interactive, real-time user interface and for managing state across the application.
- JS for functioning
- Tailwind CSS or Material UI for modern, responsive design.

Backend:

- Node.js , Express.js as the backend framework.
- REST APIs for data interaction between the frontend and backend.
- WebSocket Server (e.g., Socket.io in Node.js or native WebSockets in for real-time collaboration..

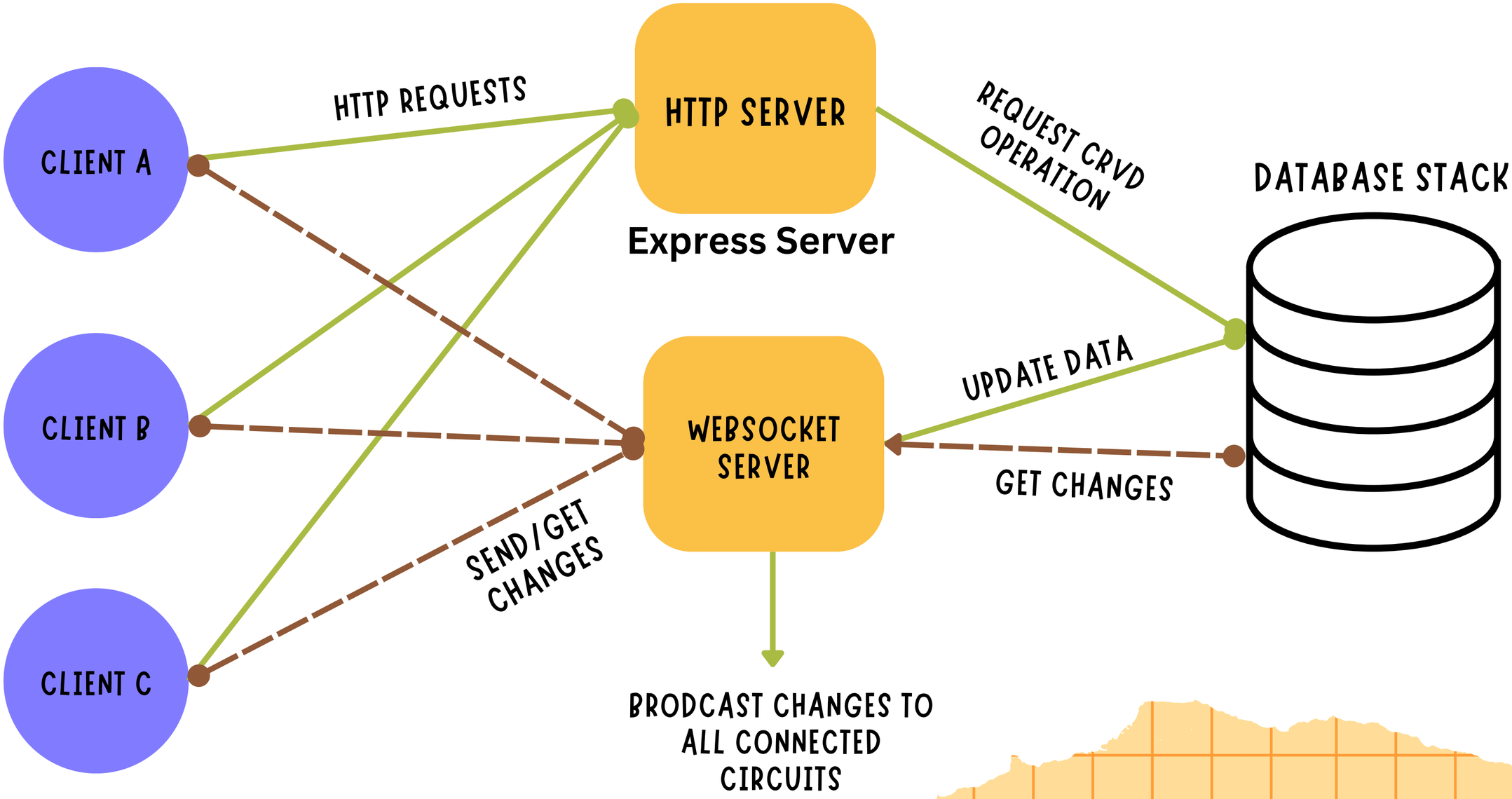
Database:

- MongoDB for structured data and relationships.
- Local storage for in-memory storage and caching (critical for real-time updates).

Version Control:

- Git-like versioning system for maintaining and tracking spreadsheet changes over time

SYSTEM ARCHITECTURE



FUTURE SCOPE OF OUR PROJECT

1

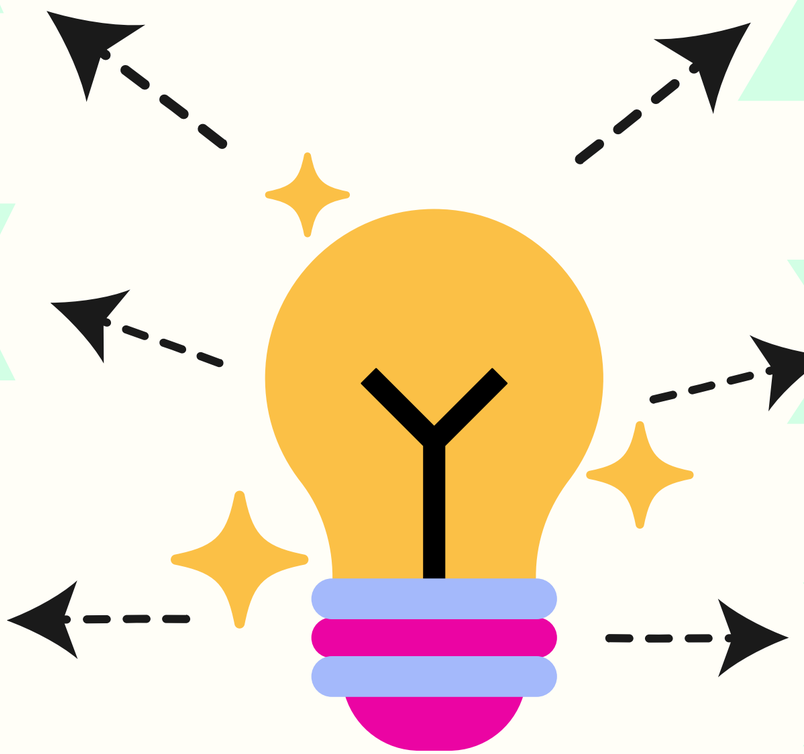
Integrating advanced AI for predictive analytics and automated data processing,

2

Expanding mobile support with a PWA

3

Enhanced cloud-native scaling for enterprise users,



4

Incorporating ML models for personalized user experiences and intelligent automation in spreadsheet management.

5

Blockchain-based data integrity,

6

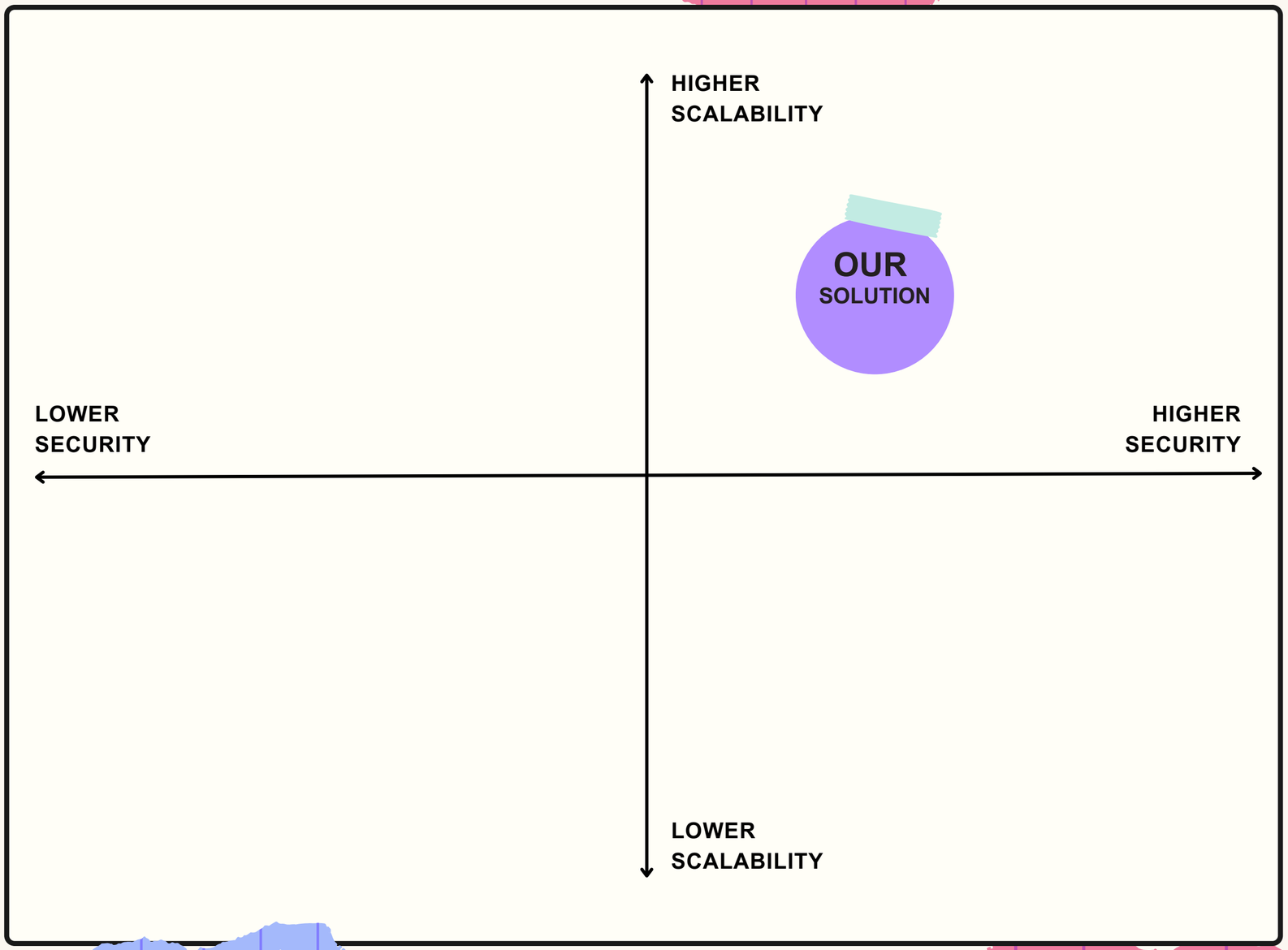
Enhancing the ability to handle larger datasets efficiently

MARKET READINESS

1. The solution is market-ready, leveraging proven technologies like Node.js, React, and Web Socket, with high demand for real-time collaboration tools.

2. Its modular, scalable architecture ensures easy adoption by businesses seeking cloud-native, secure

3. Enhanced collaborative spreadsheet platforms for modern data management.



BUSINESS MODEL

- ## FREEMIUM MODEL

  Free Tier: Offer basic features like real-time collaboration, limited spreadsheet size, and essential AI tools for individuals or small teams.

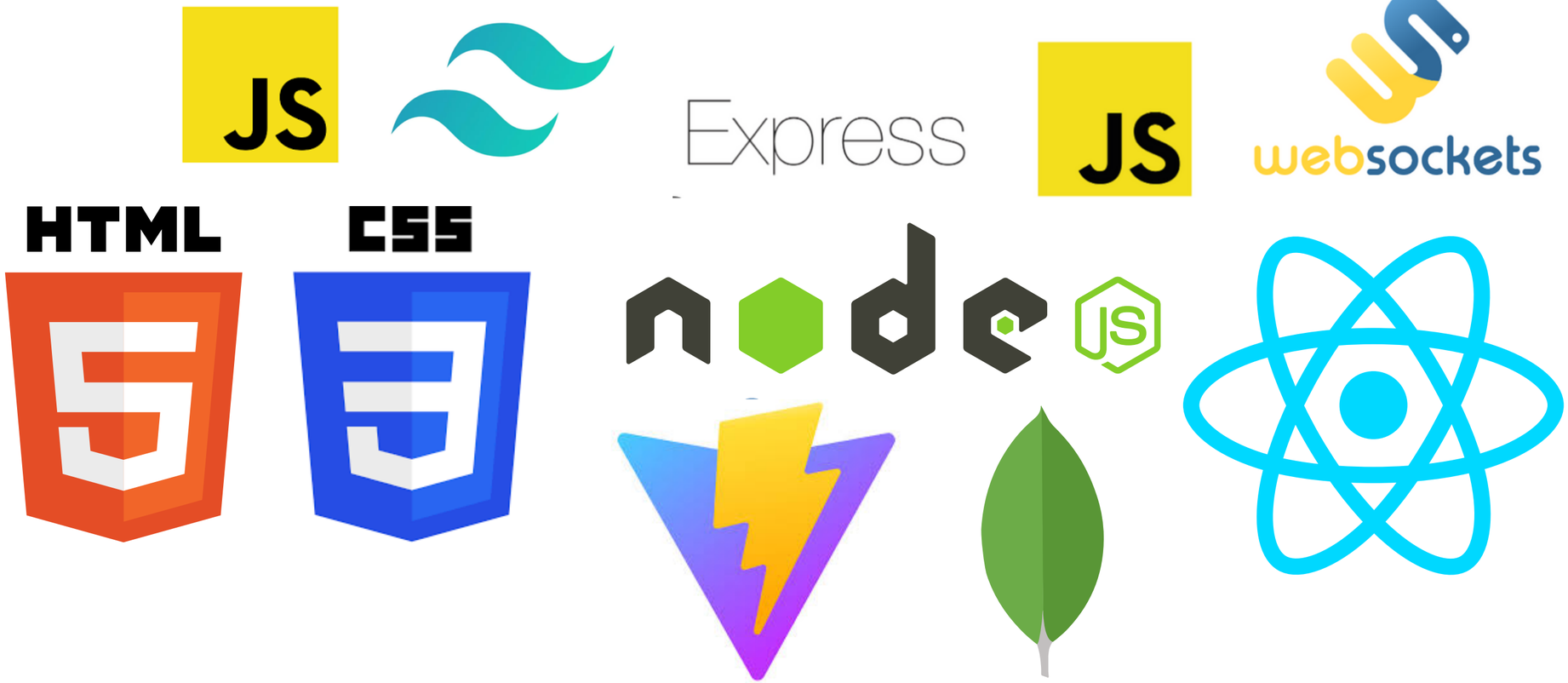
  Premium Tier: Provide advanced features such as large-scale data processing, AI-powered analytics, enhanced security, and integrations (e.g., cloud storage, CRM) for businesses at a monthly/annual subscription.

- ## ENTERPRISE SAAS

  Custom pricing for large organizations requiring additional features like team management, enterprise-level support, and on-premise hosting for data-sensitive industries.

  This model maximizes accessibility while generating revenue from power users and businesses needing advanced features.

Techstacks used



THANK YOU!