## 1. Technical Feasibility

Component	Availability / Current Status	Notes / Requirements	
Backend	Node.js — Available	Node.js runtime environment established; further scaling.	
Data Sources	Prototype implemented using the GitHub API	GraphQL integration pending. The team should enhance expertise in GitHub GraphQL schema queries and rate-limit handling for continuous data collection.	
Database	PostgreSQL — Available	Relational structure suited for analytics and social data; en- sure proper indexing, caching, and partitioning for large- scale trend and feed data.	
Frontend	Vue.js + Tailwind CSS — Available	Reactive UI design framework ready; implement modular components for feed, charts, and dashboards ensuring con- sistency across devices.	
Visualization	Library to be selected	Integrate with a Vue- compatible visualization library (Chart.js, Apex- Charts, or D3.js) for analytics dashboards, trends, and GitHub metrics visualization.	
Authentication	Custom accounts + GitHub OAuth	Enable app-native authentication plus OAuth via GitHub; store secure tokens and manage user sessions following OAuth 2.0 standards.	
Hosting / Deployment	Cloud-based — Pending final selection	Candidate platforms: Vercel, Netlify, or AWS. Must sup- port scalable backend APIs, secure data storage.	
Social Feed UX	Design phase in progress	Plan for interactive and real-time community feed using Vue components and Socket.io; include infinite scroll, likes, and commenting features.	
Hardware / Infrastructure	Adequate for current development	Development laptops and cloud resources are sufficient.	

Table 1: Technical Feasibility

Future Feature	Purpose	How It Integrates	Example Implementation
Community Skillboard / Needed Skills Section	Show in-demand skills or projects in the developer world	Uses existing feed and visualization layers; adds a "Skills" database table and a "Trend- ing Skills" API	Dashboard showing "Top 10 Emerging Skills This Week."
LLM-powered Project Genera- tor	Suggest potential projects for users based on their interests or GitHub activity	Connects an LLM API (e.g., OpenAI, Anthropic) to the backend; stores cu- rated prompts and responses	"Based on your GitHub repos, here are 3 project ideas in AI tools."
Professional Collaboration Space	Matches users with similar or comple- mentary skills and goals	Extends feed and authentication logic; adds user skills and collaboration interest tables	Suggests users with overlapping interests or complementary skills.
Multi-platform Data Integration	Enriches developer profiles using multi- ple sources such as LinkedIn, Hugging- Face, or Kaggle	Adds new data source microservices that fetch and merge external profile data	Combines user's GitHub and LinkedIn data to create a unified developer profile.

Table 2: Future "Dream" Features — and How They Fit