IdeaGenie Development Roadmap

Phase 1: Research & Planning (1-2 weeks)

- Define detailed product requirements and core features.
- Research APIs and data sources (Reddit, Stack Overflow, GitHub, forums).
- Identify tech stacks and tools for NLP, AI, backend, and frontend.
- Sketch initial user flows and wireframes (focus on group profiles, problem feed, idea generation).
- Plan MVP scope and prioritize features.

Phase 2: Backend & Data Collection (3-4 weeks)

- Set up backend infrastructure (Node.js/Python + database).
- Implement data scraping and API integrations for Reddit, Stack Overflow, GitHub issues.
- Build a system for continuous data crawling and storage of problem data.
- Develop basic NLP pipeline to filter and categorize collected problems.
- Set up user/group authentication and profile management.

Phase 3: Frontend Development (3-4 weeks, parallel with backend)

- Build responsive UI for group profile creation and skill aggregation.
- Develop dashboard for browsing collected problems.
- Create interfaces for tech stack input (manual and OAuth integrations).
- Implement notifications UI for problem alerts and project idea updates.

Phase 4: AI Project Idea Generation (4-5 weeks)

- Integrate GPT or similar language model API for generating project ideas.
- Build logic to map collected problems + group tech stack to custom project ideas.
- Develop skill gap analysis to suggest missing tech skills in the group.
- Enable team collaboration features — invite members, share ideas.

Phase 5: Testing & Iteration (2-3 weeks)

- Perform unit and integration testing for backend and frontend.
- User testing with small developer groups to gather feedback.
- Refine AI generation based on feedback — improve idea relevance and diversity.
- Fix bugs, optimize performance.

Phase 6: Deployment & Launch (1-2 weeks)

- Deploy backend and frontend to cloud platforms (AWS/GCP/Heroku).
- Set up monitoring, logging, and analytics.
- Prepare marketing and onboarding materials.
- Launch MVP publicly — start onboarding groups/teams.

Phase 7: Post-Launch & Scaling (Ongoing)

- Gather user feedback and usage data to improve features.
- Add support for more data sources and problem domains.
- Implement premium features (advanced analytics, priority problem alerts).
- Expand collaboration tools (chat, project tracking).
- Explore monetization: subscription, commissions, partnerships.