



**Baderia Global Institute of Engineering and
Management, Jabalpur, Madhya Pradesh 482002**



BrahmaX 1.0

The Creation of Tomorrow

BrahmaX 1.0

www.codecrax.com



Profile Overview

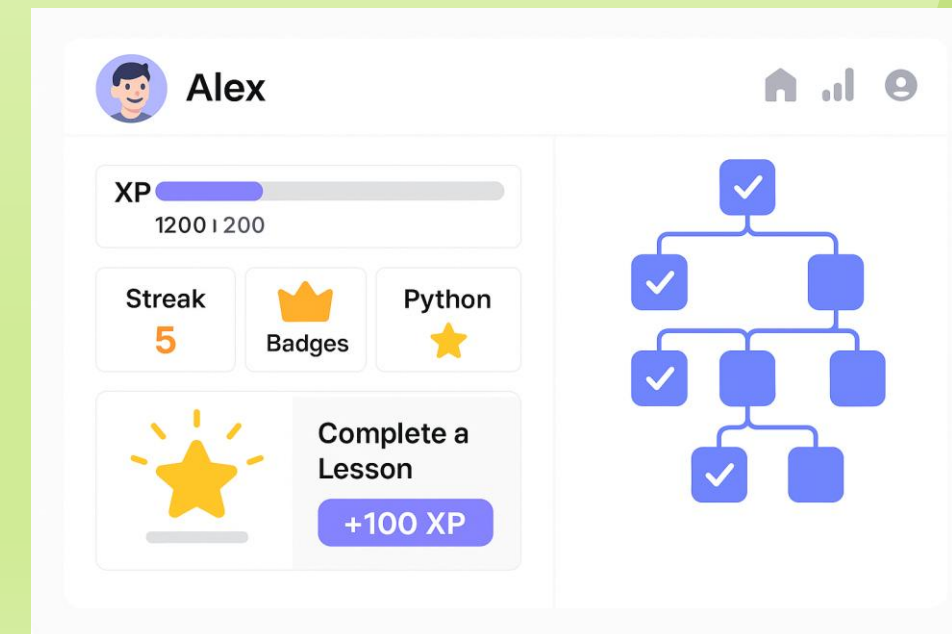
- **Theme** – EdTech
- **Problem Statement Title**- Personalized learning platforms and Gamification of education
- **Team ID** - (As per Unstop registration)
- **Team Name** – Byte Busters



“SkillSprint” - A Gamified Personalized Learning Hub

A web app where users take short quizzes or mini-lessons and earn XP, badges, and level-ups. The app adapts to their learning style and progress over time.

- **Solution Overview:** SkillSprint is a gamified web platform that delivers bite-sized lessons and quizzes tailored to each learner’s style and pace. It transforms learning into an engaging journey with rewards, levels, and a personalized path to mastery..
- **Problem-Solving:** It addresses the challenge of low learner motivation and engagement in traditional platforms by using game mechanics and adaptive content delivery. Learners stay motivated through XP, streaks, and skill unlocks.
- **Innovation:**
 - Adaptive learning based on user style (visual/textual).
 - Knowledge marketplace: Peer-to-peer mentorship exchange.
 - Gamified progression with XP, badges, and personalized dashboards.
 - Optional AI hints and feedback using OpenAI.





- **Technical Approach:**

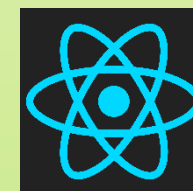
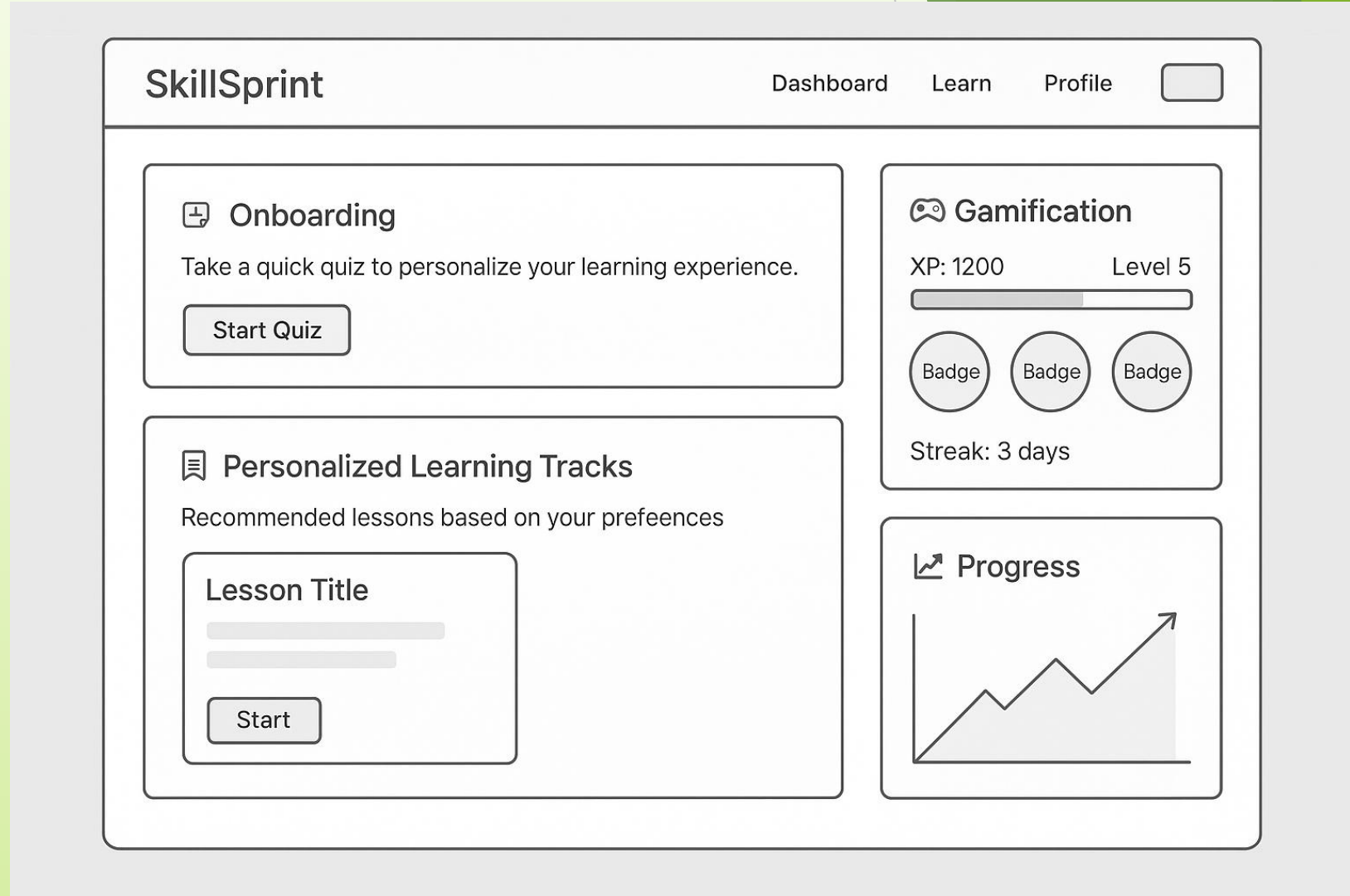
- Frontend: React / Next.js + Tailwind CSS
- Backend: Firebase / Supabase
- Gamification Logic: JavaScript or Firebase Functions
- AI (optional): OpenAI GPT API
- Hosting: Vercel / Netlify

- **Methodology:**

- User onboarding with learning-style quiz
- tailored lesson tracks recommended
- lessons followed by quizzes/challenges
- gamification system updates user progress XP, and badges
- optional AI feedback engine gives hints/explanations
- Users can post or accept skill-based challenge exchanges.

- **Process Flow:**

User Login → Style Quiz → Lesson Track → Mini Quizzes → Earn XP → Track
Post/Accept Challenges → Mentor or Learn from Peers





- **Feasibility:**

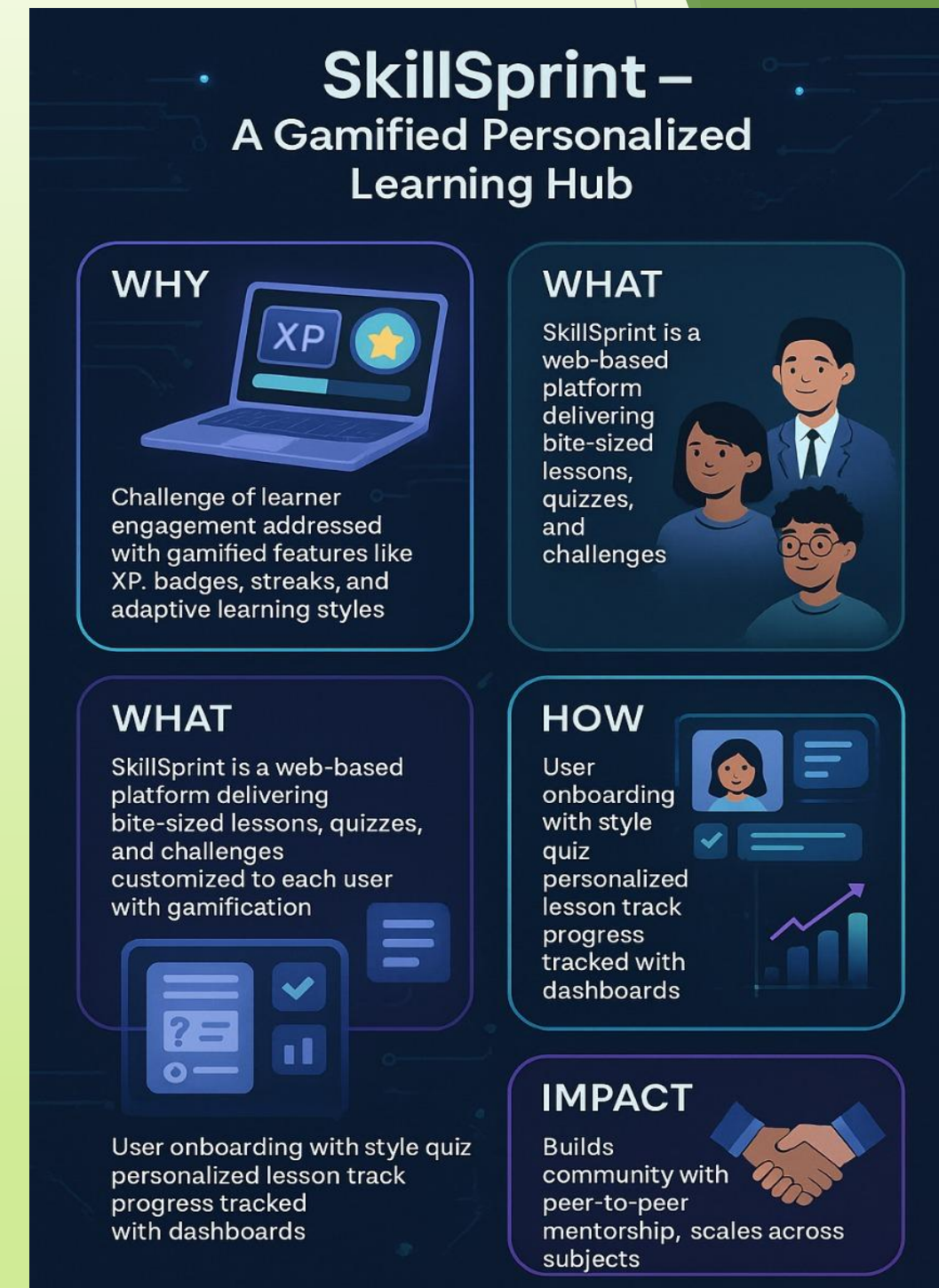
- Technically feasible using modern frontend/backend stacks
- Firebase and OpenAI integrations are reliable and scalable.

- **Challenges & Risks:**

- Personalization complexity
- maintaining user retention
- real-time gamification updates

- **Mitigation Strategies:**

- Start with basic personalization improve iteratively
- use engagement hooks (daily streaks, reminders)
- leverage Firebase real-time database for instant updates.





- **Target Audience Impact:**

Students, professionals, and hobby learners benefit from engaging, adaptive learning.

- **Key Benefits:**

- Boosts learner retention and motivation
- peer-to-peer knowledge exchange builds community
- equitable access to mentorship

- **Long-Term Value:**

- Scalable to new subjects and age groups
- potential to integrate with schools or edtech partners
- sustainable through freemium or partner model





REFERENCES

- OpenAI GPT documentation
- Firebase developer docs
- Research on gamified learning systems
- UX case studies on adaptive learning platforms