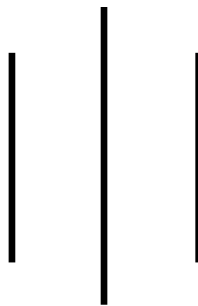# LA GRANDEE INTERNATIONAL COLLEGE

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A Project Proposal

On

"LevelUp"

Submitted to:

Bachelor of Computer Application (BCA) Program

In partial fulfilment of the requirements for the degree of BCA under

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1. INTRODUCTION

LevelUp: Skill Based Community App is your personal growth companion, designed to help you learn new skills, track your progress, and connect with like-minded people. Whether you're at your desk or on the go, LevelUp is available as a web app and a mobile app, so your journey toward growth never stops.

Why LevelUp?

We all want to grow, but it's easy to feel stuck or overwhelmed. LevelUp makes growth fun, interactive, and achievable. Through a mix of learning, social engagement, and friendly competition, you can challenge yourself, join supportive communities, and see real progress every day.

What Makes LevelUp Special?

- Communities built around skills

  Whether you're into programming, design, fitness, or language learning, there's a community for you. Share tips, celebrate wins, and learn from others who are just as motivated as you.

- AI-Powered Quests Just for You

  Get personalized challenges and quests created by AI based on your skill level. Every task is designed to help you grow without feeling stuck or bored.

- Clans and Gamification

  Join or create clans in your community to complete quests together, earn rewards, and compete on leaderboards. Learning becomes social, motivating, and most importantly fun.

- Multi-Language Support

  LevelUp speaks your language! We currently support English, French, Japanese, Arabic, Chinese, Nepali, Spanish, and more, so everyone can feel at home.

- Track Your Progress

  Choose plans that fit your goals and watch your progress grow. From completing quests to leveling up your skills, every achievement is visible and rewarding.

- Accessible Anywhere

- Web: Full-featured, responsive experience on desktops and tablets.

- Mobile: Take LevelUp with you on your phone with our React Native app.
- Built to Grow with You

  Powered by Node.js, Express, Prisma, and PostgreSQL, LevelUp is fast, reliable, and ready to scale as you and your community grow.

Who Is LevelUp For?

Anyone who wants to learn, grow, and have fun while doing it—students, professionals, hobbyists, and even organizations looking to upskill their teams.

2. BACKGROUND STUDY

Learning new skills has become increasingly accessible in the digital age. With just a smartphone and a few spare minutes, users can begin fitness routines with Home Workout, practice languages with Duolingo, explore creative courses on Skillshare, take academic lessons on Coursera or Khan Academy, and learn coding on Scrimba. Social platforms like Discord provide interaction and collaboration but are not structured for guided learning.

Despite the variety of tools, learners face a major challenge: fragmentation. Each app functions independently, requiring separate logins, interfaces, and progress tracking. For example, someone who wants to learn coding, practice a language, and stay fit would need to switch between multiple apps, which can become tiring and demotivating.

The Need for LevelUp

LevelUp is designed to address these challenges by combining multi-skill learning, community engagement, and gamification in a single platform.

The key goals are:

- **Multi-Skill Coverage:** Users can explore diverse areas such as fitness, technology, creative arts, personal finance, and more without leaving the app.
- **Community-First Learning:** Interest-based groups, challenges, and live discussions keep users connected and motivated.
- **Unified Progress Tracking:** A single dashboard tracks progress across all skills, eliminating the need for multiple apps.
- **Personalized and Gamified Experience:** AI-driven challenges, points, badges, and leaderboards keep learning fun, interactive, and tailored to each user's level.

Comparison with Existing Platforms

Scrimba

Scrimba is an interactive coding education platform focused on web development and programming. Its unique "Scrim" format allows users to interact with code directly in a video, providing hands-on learning. While Scrimba is excellent for coding skills, it is limited in scope—it only covers technical skills, has minimal gamification, and community features are course-specific rather than cross-topic.

Discord

Discord offers robust social interaction through chat channels and voice/video calls. However, it is not a structured learning platform. While users can form communities, there is no guided curriculum, progress tracking, or gamified system to encourage skill growth.

Single-Skill Apps (Home Workout, Duolingo, Skillshare, Coursera, Khan Academy)

These apps excel at their respective domains: fitness, language learning, creative courses, or academic subjects. Each app provides focused content and sometimes limited gamification (like streaks or badges). However, they operate independently, with no integrated dashboard or cross-skill collaboration.

3. PROBLEM STATEMENT

- Lack of Motivation:

  Learners struggle to stay engaged without interactive content, instant feedback, or rewards to encourage consistent progress.

- Fragmented Community:

  Collaboration and peer support are limited because learners cannot connect, discuss, or track progress in one unified platform.

- Isolation in Skill Development:

  Learning new skills often feels lonely, as teamwork, friendly competition, and group challenges are rarely encouraged.

- Limited Personalization:

  Content does not adapt to individual levels or goals, making it difficult for learners to stay engaged and challenged.

- Missed Opportunity for Gamification:

  Without gamified elements like achievements, leaderboards, and rewards, learners lack motivation and interactive engagement.

4. OBJECTIVES

- Create a community-first learning platform that encourages collaboration, progress sharing, and teamwork.

- Make learning engaging and personalized using AI-driven challenges, rewards, and gamified experiences.

5. METHODOLOGY

For To ensure LevelUp evolves with user needs and stays on schedule, the project will follow an **Agile development framework**, specifically the **Scrum** style of Agile. This approach emphasizes flexibility, rapid iteration, and close collaboration between all team members.

1. Project Planning & Backlog Creation

- **Define Vision & Scope:** Clearly outline LevelUp's core goals, community-driven learning, AI-generated quests, and gamified progression.

- **Product Backlog:** Break these goals into user stories and features, prioritized by importance and dependencies.

- **Estimation:** Use story points to estimate effort for each backlog item.

2. Sprint Planning

- **Sprint Length:** Adopt two-week sprints to balance steady progress with frequent feedback.

- **Team Roles:**

o **Development Team:** Designers, front-end, and back-end developers share responsibility for delivering sprint goals.

3. Iterative Development

- **Design → Build → Test Loop:** Each sprint covers requirement refinement, coding, UI/UX design, and automated/manual testing.

- **Incremental Delivery:** Every sprint produces a working build of the app—such as an early prototype of AI quests or clan features.

4. Daily Stand-ups

- 15-minute meetings where the team shares what was done yesterday, plans for today, and any blockers.

- Promotes transparency and quick problem-solving.

5. Sprint Review & Demo

- At the end of each sprint, the team demonstrates the new functionality (e.g., a working chat feature or quest generator) to stakeholders.

- Feedback is recorded and turned into new backlog items.

6. Sprint Retrospective

- The team reflects on what went well, what didn't, and how to improve processes for the next sprint.

- Encourages continuous improvement.

7. Continuous Integration & Deployment

- Code is merged frequently into a shared repository with automated testing to catch issues early.

- Small, frequent releases allow early users to experience new features and provide real-world feedback.

8. Ongoing User Feedback

- Early beta testers and selected community members will provide input after each release.

Feedback loops ensure features like AI-generated quests and gamification evolve according to actual user need.
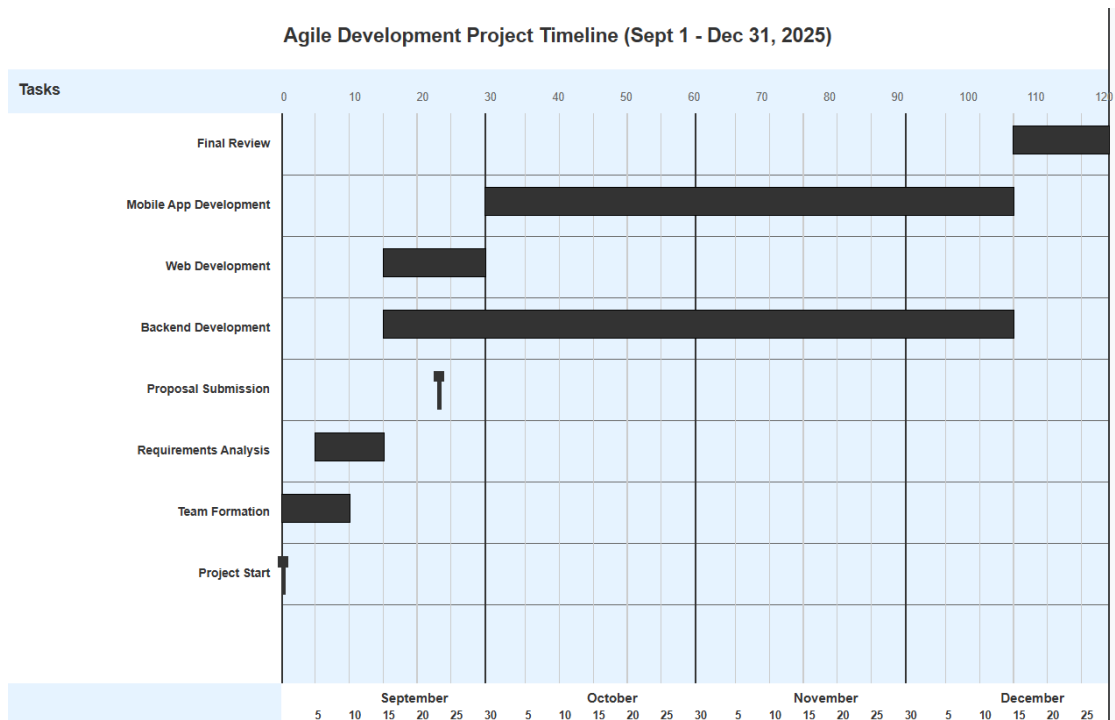
6. PROJECT GANTT CHART/ TIMELINE CHART

Figure 6.1: Example of Gantt Chart

7. DELIVERABLES

After the system is created, users and stakeholders can expect a complete, engaging, and functional platform designed to make learning fun and social.

1. **Mobile App**

   A smooth and responsive React Native app for both Android and iOS, where users can take on AI-generated quests, join skill-based communities, and level up through gamified challenges.

2. **Backend & APIs**

   A reliable backend that powers the app, handling user accounts, quests, leaderboards, and real-time chat. APIs will ensure the app runs seamlessly and can scale as the community grows.

3. **User Profiles & Progress Tracking**

   Users will have personalized profiles showing their achievements, levels, points, and badges, helping them see how they are improving over time.

4. **Community & Collaboration Tools**

   Features like groups, clans, and chat will make it easy for learners to connect, collaborate, and share their progress with others.

5. **Gamification & AI Quests**

   Personalized quests and challenges will be suggested by AI, keeping learning engaging and rewarding through points, badges, and leaderboards.

6. **Testing & Quality Assurance**

   Comprehensive testing will ensure the app is stable, user-friendly, and bug-free, with reports documenting all findings and fixes.

7. **Documentation & Guides**

   Clear technical documentation for the system architecture and APIs, along with user guides to help new users get started quickly.

Deployment & Future Maintenance

The app will be deployed on both the Play Store and App Store, with a plan in place for updates, improvements, and scaling as the user base grow.

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