

# A Real-Time Player Finding System

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# Project Vision: Connecting Gamers for Enhanced Play

Our vision is to empower gamers by providing a seamless, intelligent platform designed to foster connection, collaboration, and competition.



## Dynamic Community Requests

Facilitate effortless discovery of people for specific games and activities, building a robust, user-driven community.



## Transparent Player Insight

Offer comprehensive user profiles with real-time status indicators, game libraries, and statistics for informed connection decisions.





## Team Roles & Responsibilities

**Adnan Hasshad Mohammed**

**Project Manager & Technical All-Rounder**

- Leads overall project direction & management.
- Responsible for planning, deadlines, and coordination.
- Provides hands-on technical assistance across front-end & back-end.

**Mayakuntla Lokesh**

**Back-End Developer**

- Designs Firestore database schema.
- Sets up user authentication.
- Develops core logic for user profiles, requests, & connections, including real-time functionality.

**Thokala Sravan**

**Front-End Developer**

- Builds the user interface using Flutter or React.
- Develops the user profile page & public request board.
- Creates all interactive front-end components.

**Tatikonda Srilekha**

**Quality Assurance & All-Rounder**

- Creates and executes the test plan.
- Conducts comprehensive testing to identify bugs.
- Compiles final project report and presentation (PPT).
- Provides flexible technical support to front-end & back-end.

# Work Completed to Date

For this First Review, our team has successfully laid the foundational groundwork for the MVP:



## Project Idea Finalisation

Solidified the core concept of a gamified player finder app after extensive brainstorming and market analysis.



## Defined Team Roles

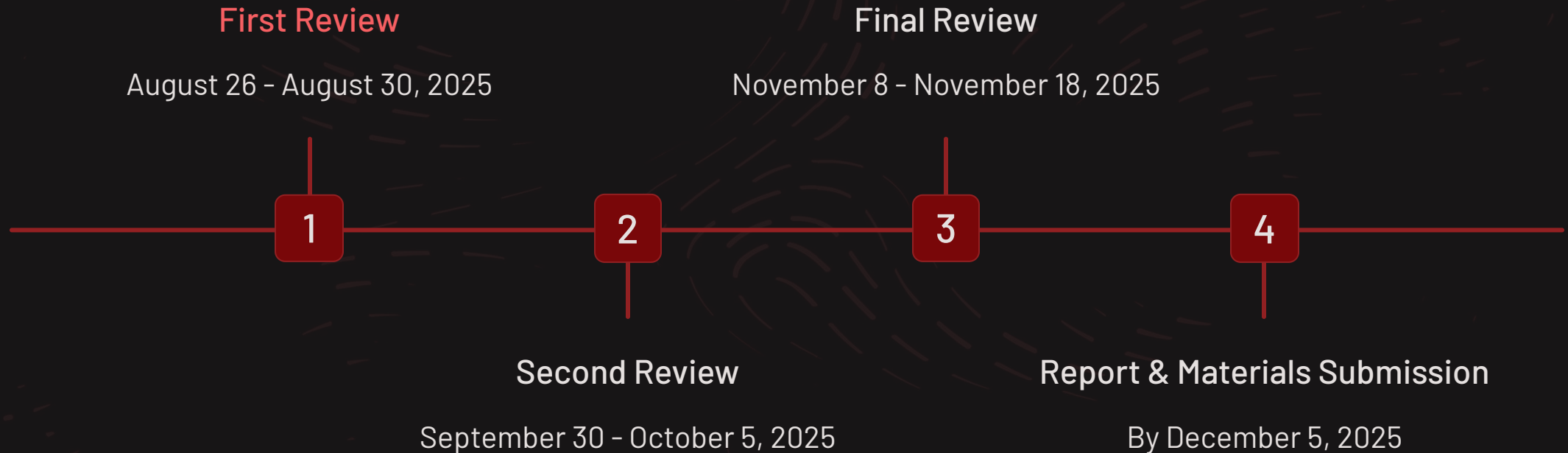
Clearly assigned specific responsibilities to each team member, leveraging individual strengths for optimal workflow.



## Initial Planning & Research

Conducted preliminary research into potential technologies and established a high-level project roadmap.

# Project Timeline & Evaluation Schedule



Our structured timeline ensures consistent progress and timely delivery of project milestones.

# Key Features of the MVP



## Public Request Board

A dynamic forum where users can post requests for teammates for specific games or activities.



## 1v1 and Team Finder

Intelligent matching algorithms to pair players for one-on-one encounters or full team assemblies based on preferences and skill levels.



## User Profiles with Real-time Status

Comprehensive profiles displaying user statistics, game libraries, and live status indicators (online, in-game, looking for group).

# Technology Stack

Our project is built upon a robust and modern technology stack, carefully selected for scalability, efficiency, and ease of development.



## Firebase

A serverless platform simplifying development by handling authentication, databases, and real-time features, allowing focus on unique app features.



## Firestore

Highly scalable NoSQL database within Firebase, ideal for user profiles and app data. Its real-time features provide instant updates.



## React / Flutter

Modern frameworks for intuitive UI. React for web applications, Flutter for efficient native mobile development (Android/iOS).



## Firebase Realtime DB / Firestore Listeners

Built-in Firebase features providing instant data synchronisation, eliminating the need for custom real-time solutions.



## Git & GitHub

Industry-standard tools for version control and collaborative coding, ensuring seamless teamwork and preventing conflicts.



## VS Code

A popular, lightweight code editor supporting all project languages and frameworks, suitable for both front-end and back-end development.

# Project Constraints

Acknowledging potential limitations helps us manage expectations and allocate resources effectively:



## Time Constraints

Strict deadlines for reviews necessitate agile development and careful prioritisation of features.



## Resource Limitations

Balancing development efforts with available team capacity and computational resources.



## Scope Management

Maintaining focus on the core MVP features to ensure deliverability within the given timeframe.



# Next Steps & Q&A

Our immediate focus is on developing the foundational components of the MVP, including initial database schemas, core API endpoints, and prototyping the user interface for key features. Should time permit, we plan to expand the project with additional features and functionalities.

**We welcome your questions and feedback.**

