Requirements Gathering

## Functional Requirements

* Analyze replays
  + Determine build order
  + Determine win rates based on races
  + Determine win rates of build ‘A’ vs build ‘B’
* Import and display build order to live game.
* Filter build orders
  + Race
  + Winrate
  + Difficulty
  + Winrate vs specific build
  + Most popular
* Use ChatGPT to analyze post-game battle report and explain that
* Post-game battle reports
  + Major battles and units lost
  + Game highlights based on resources within a short time
  + Exact units and structures lost
  + Units created
  + Mini-map combat hotspots
  + Build order accuracy

## Non-Functional Requirements

Summary: *These requirements do not pertain to specific behaviors or functionalities of the application but rather to its overall attributes and characteristics.*

##### Performance and Responsiveness

* The application should be capable of processing and displaying data with minimal latency.
* It should handle high volumes of concurrent users and data requests efficiently.

##### Scalability

* The system should be scalable to accommodate a growing number of users and an increasing amount of data.
* Host database on AWS

##### Reliability and Availability

* The application should have high uptime, with minimal downtime for maintenance or updates.
* It should be reliable in delivering accurate and consistent analytics data.

##### Security

* Strong measures for data security, including encryption of sensitive data and secure handling of user information.
* Implementation of proper authentication and authorization mechanisms to protect user accounts and data.

##### Maintainability and Modularity

* The codebase should be well-organized and documented for ease of maintenance and updates.

##### Usability and Accessibility

* The user interface should be intuitive and user-friendly, catering to both novice and experienced gamers.
* The application should be accessible to users with disabilities, complying with relevant accessibility standards.
* WCAG2 standards for web page and overlay
* Make graphs and diagrams have alt text

##### Data Integrity and Backup

* Regular backups and secure storage of data to prevent loss.

##### Disaster Recovery

* A robust disaster recovery plan to minimize data loss and downtime in case of system failure or other catastrophic events.

##### Compliance and Legal Requirements

* Adherence to legal and regulatory requirements, such as data protection laws (e.g., GDPR, if applicable).