

# Product Requirement Document (PRD)

**Product Name:** PromptArena

**Version:** 1.0

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## 1. Product Summary

**PromptArena** is a gamified prompt battle platform where users can log in, join creative writing battles, and get evaluated by AI. The platform features different difficulty levels, various battle modes, and a leaderboard to encourage competition and engagement.

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## 2. Goals

- Allow users to challenge others in prompt battles.
  - Provide a seamless multi-login experience.
  - Automate prompt evaluations using LLMs.
  - Offer rankings, badges, and recognition via leaderboard.
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## 3. Key Features

### 3.1 Login System

Users must log in to access the platform.

- **Supported Login Methods:**
  - Facebook Login
  - Gmail Login
  - Admin Login (for platform moderation)

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## 3.2 Prompting Space

### a. Choose Prompt Level

Users can select the complexity of the prompt:

- **Basic** – For beginners
- **Intermediate** – For regular players
- **Pro** – For advanced prompt creators

### b. Choose Battle Type

Users can choose from the following battle formats:

- **1v1 Prompt Battle** – Direct one-on-one challenge
- **Group Battle** – Up to 6 users compete simultaneously
- **AI vs Human** (*Optional*) – Compete against an AI-generated prompt

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## 3.3 Prompt Evaluation

Prompts submitted in battles are evaluated using an LLM (Large Language Model).

- **Evaluation Criteria:**
  - Creativity
  - Relevance to prompt
  - Clarity and structure
- **Evaluation Method:**
  - Fully automated
  - Instant score display after submission

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### 3.4 Leaderboard

The leaderboard highlights top-performing users based on scores.

- **Ranking Metrics:**
  - Battle wins
  - Evaluation scores
  - Participation frequency
- **Recognition:**
  - Titles/Badges (e.g., “Prompt Master”)
  - Weekly & monthly highlights

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## 4. Technical Requirements

Component	Technology Stack
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## 5. User Roles

- **Participant:** Can join and create prompt battles.
  - **Admin:** Can monitor battles, manage users, and moderate content.
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## 6. Future Enhancements

- Community voting system
  - Prompt creation marketplace
  - In-app rewards store
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## 7. KPIs to Measure Success

- Number of prompt battles per day
- Average time spent per user
- Daily active users (DAU)
- Growth in leaderboard participation

Mind Map:

