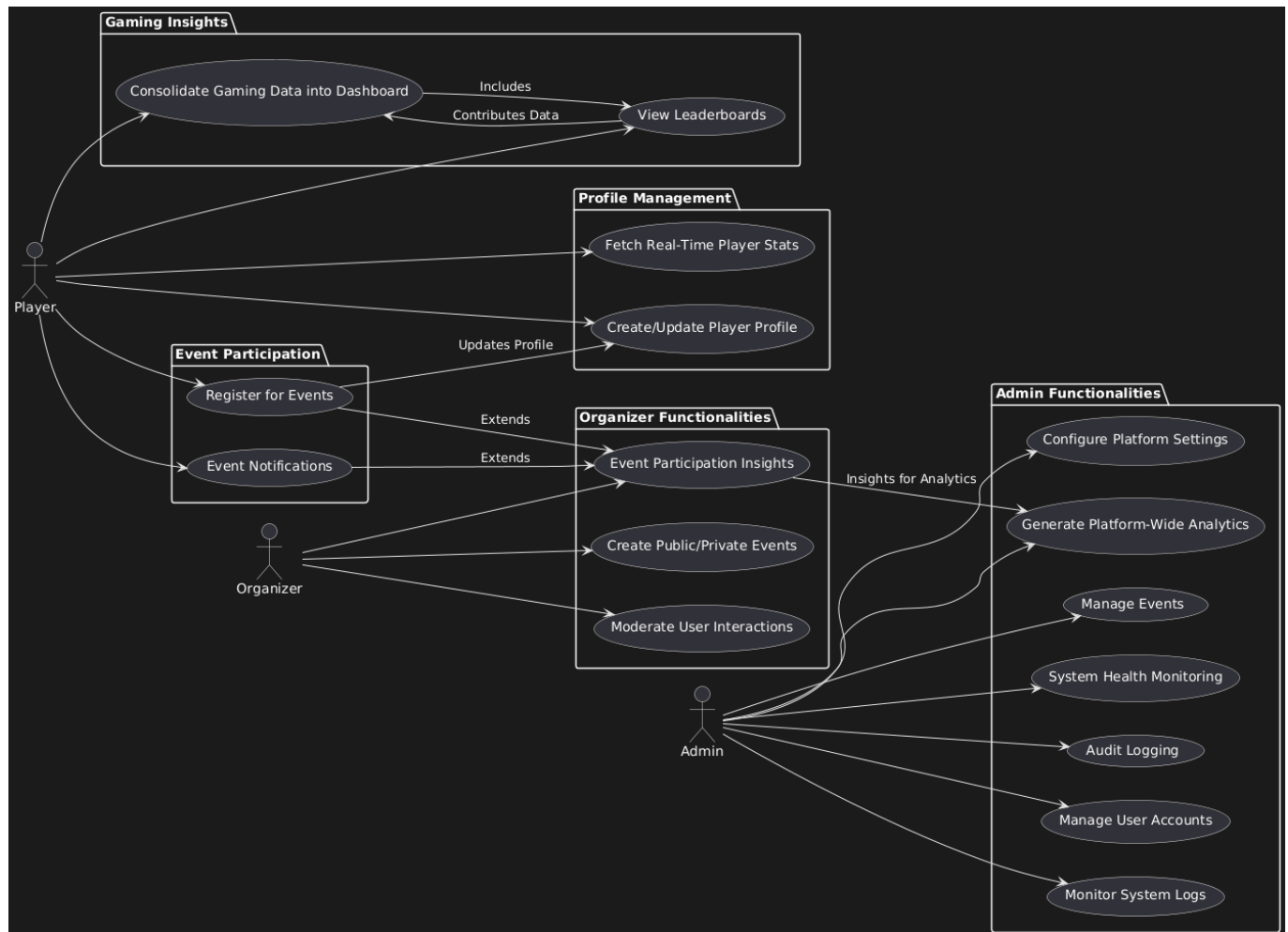


## Use Case Diagram



### Profile Management

#### 1. Create/Update Player Profile (U1)

- **Actor(s):** Player
- **Description:** Players can create or modify their profile information, including username, avatar, preferences, and gaming history.
- **Precondition:** Player must be logged into the platform.
- **Postcondition:** The updated profile is saved and reflected across the system.

#### 2. Fetch Real-Time Player Stats (U2)

- **Actor(s):** Player
- **Description:** Players can view their real-time performance stats, such as wins, losses, and rankings.
- **Precondition:** Player has an active profile with participation history.
- **Postcondition:** Stats are displayed on the player dashboard.

### Gaming Insights

#### 3. Consolidate Gaming Data into Dashboard (U3)

- **Actor(s):** Player
- **Description:** Players can view their consolidated performance data in a personalized dashboard.
- **Precondition:** Player has completed at least one game or event.
- **Postcondition:** A dynamic dashboard is displayed with updated insights.

#### 4. View Leaderboards (U4)

- **Actor(s):** Player
  - **Description:** Players can view leaderboard rankings and compare their performance against others.
  - **Precondition:** At least one game or event must have been completed.
  - **Postcondition:** Leaderboard data is retrieved and displayed.
  - **Includes:** Consolidate Gaming Data into Dashboard (U3).
- 

## Event Participation

#### 5. Register for Events (U5)

- **Actor(s):** Player
- **Description:** Players can register for upcoming public or private events.
- **Precondition:** Event registration must be open.
- **Postcondition:** Player is added to the event participant list.
- **Extends:** Event Participation Insights (U8).
- **Updates:** Player profile with participation history.

#### 6. Event Notifications (U6)

- **Actor(s):** Player
  - **Description:** Players receive notifications for upcoming events, updates, and reminders.
  - **Precondition:** Player has opted in for notifications.
  - **Postcondition:** Notifications are delivered to the player.
  - **Extends:** Event Participation Insights (U8).
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## Organizer Functionalities

#### 7. Create Public/Private Events (U7)

- **Actor(s):** Organizer
- **Description:** Organizers can create and manage public or private events for players.
- **Precondition:** Organizer must have a valid account.
- **Postcondition:** Events are created and published.

#### 8. Event Participation Insights (U8)

- **Actor(s):** Organizer
- **Description:** Organizers can view participant statistics, such as registration trends and player performance.
- **Precondition:** Event must have at least one registered participant.
- **Postcondition:** Insights are displayed to the organizer.

- **Links to:** Platform-wide Analytics (U11).

## 9. Moderate User Interactions (U9)

- **Actor(s):** Organizer
  - **Description:** Organizers can moderate interactions between players within events, ensuring compliance with community guidelines.
  - **Precondition:** Event must have ongoing player interactions.
  - **Postcondition:** Moderator actions are logged and applied.
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## Admin Functionalities

### 10. Manage User Accounts (U10)

- **Actor(s):** Admin
- **Description:** Admins can create, update, suspend, or delete user accounts.
- **Precondition:** Admin must be authenticated.
- **Postcondition:** Account changes are saved and reflected.

### 11. Generate Platform-Wide Analytics (U11)

- **Actor(s):** Admin
- **Description:** Admins can generate detailed analytics across the platform, including participation and engagement statistics.
- **Precondition:** Platform activity data is available.
- **Postcondition:** Analytics reports are generated.

### 12. Monitor System Logs (U12)

- **Actor(s):** Admin
- **Description:** Admins can monitor system logs for activities, errors, and anomalies.
- **Precondition:** Logs must be generated by the system.
- **Postcondition:** Logs are reviewed, and anomalies flagged.

### 13. Configure Platform Settings (U13)

- **Actor(s):** Admin
- **Description:** Admins can modify global platform settings, such as themes, notification preferences, and system-wide configurations.
- **Precondition:** Admin access is required.
- **Postcondition:** Settings are updated.

### 14. Manage Events (U14)

- **Actor(s):** Admin
- **Description:** Admins can oversee and manage events created by organizers, including cancellations or edits.
- **Precondition:** Event must exist in the system.
- **Postcondition:** Event changes are applied.

### 15. System Health Monitoring (U15)

- **Actor(s):** Admin
- **Description:** Admins can monitor the platform's server health, usage metrics, and system performance.
- **Precondition:** Monitoring tools must be operational.
- **Postcondition:** Health data is retrieved and displayed.

### 16. Audit Logging (U16)

- **Actor(s):** Admin
  - **Description:** Admins can review detailed activity logs for audit purposes, ensuring transparency and security.
  - **Precondition:** Logs must be generated by the system.
  - **Postcondition:** Logs are reviewed and archived.
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