

CRC Card

Class: Entrant

Responsibility:

- Join/Leave waiting list,
- create and manage a personal profile
- Scan QR code to view and register for events
- Receive and respond to lottery notification (accept or decline)
- View event history and status (win or lose)

Collaborators:

- Event
- Lottery System
- Notification
- QR Scanner

Class: Organizer

Responsibility:

- Creating/ Updating event
- Run Lottery
- Manage Entrants and notifications

Collaborators:

- Event
- LotteryManager
- Notification Service

Class: Event

Responsibility:

- Store Details (Name, Date, capacity)
- Managing Event list
- Trigger lottery Draw

Collaborators:

- Organizer
- Entrant
- Lottery Manager

Class:Administrator

Responsibility:

- Remove events, profile, and images
- Manage user account and events listing
- Review logs of notifications and interactions
- Moderate platform activity

Collaborators:

- Event
- Entrant
- Organizer
- Notifications

Class: Lottery System

Responsibility:

- Randomly select entrant from waiting list based on capacity
- Handle redraw when someone declines or cancels
- Track status of selected entrant
- Return final list of attendees to organizers

Collaborators:

- Event
- Entrant
- Notification

Class: Notification

Responsibility:

- Send push notification to entrant
- Notify organizer of entrant's response
- Log message for admin review
- Handle opt-in/opt-out settings

Collaborators:

- Entrant
- Organizer
- Administrator
- Lottery System

Class: QR Scanner

Responsibility:

- Generate unique QR codes for events
- Allow entrant to scan QR code to see event details
- Redirect user to event detail page

Collaborators:

- Event
- Entrant
- Organizer

Class: Firebase Service

Responsibility:

- Store and retrieve event, entrant, and organizer data
- Manage authentication and device ID tracking
- Real time updates for check-in and lists
- Store events image and logs

Collaborators:

- Entrant
- Organizer
- Events
- Administrator
- Lottery System
- Notification