Class Event

Responsibility	Collaboratoration
- Store and manage Event details - Track registration status and participants (waiting list and selected participants) - Manage organizer information - Decode and retrieve an image from a Base64-encoded string	- User - WaitingList - FirebaseManager - Facilities

Class Notification

Responsibility	Collaboratoration
- Represent notification data, including name, details, location, device ID, and event ID - Encapsulates functionality for sending notification to users phone	- Event - FirebaseFirestore - User

Class EventManager

Responsibility	Collaboratoration
- Send notifications to users about event status (e.g., selected for the event) - Select a random user from the waiting list and move them to the chosen list for an event - Update event data in Firestore, including moving users between the waiting and chosen lists	- Event - FirebaseFirestore - Notification

Class NotificationPreferenceManager

Responsibility	Collaboratoration
- Manage user notification preferences by updating the Allow Notification field in the Firestore users collection - Provide a method to set whether a user allows notifications or not	- User - FirebaseFirestore

Class WaitingList

Responsibility	Collaboratoration
- Manage the waiting list for events - Add a user to an event's waiting list in Firestore - Add a user to an event's chosen list in Firestore	- Event - User - FirebaseFirestore

Class FirestoreQueryHelper

Responsibility	Collaboratoration
- Query Firestore to get entrant list data (accepted, chosen, declined) for a specific event - Populate a list with the queried data and update the UI - Query Firestore to get all events organized by a specific user - Populate a spinner with event names for the user to select an event	FirebaseFirestore

Class Facilities

Responsibility	Collaboratoration
- Store and manage an organizers facility data (name, location, info, picture) - Associate the facility with an event, for users to view the data	- FirebaseFirestore - User - Event

Class User

Subclasses: Entrant, Organizer, Admin

Responsibility	Collaboratoration
- Store user information (name, email, phone, account type, and device ID) - Generate user profile image deterministically from username	- Event - WaitingList - FirebaseFirestore

Class Entrant

Superclass: User

Responsibility	Collaboratoration
- Store user information - Keep track of events current signed up for (waiting list or selected	- Event - WaitingList - FirebaseFirestore

Class Organizer

Superclass: User

Responsibility	Collaboratoration
- Store user information - Keep track of events that the User has organized	- Event - WaitingList - FirebaseFirestore

Class Admin

Superclass: User

Responsibility	Collaboratoration
- Store user information - Allows user to have administrative powers over events, facilities etc.	- Event - WaitingList - FirebaseFirestore