

<div>Administrator</div> <div>Responsibilities Remove events (US 03.01.01) Remove profiles (US 03.02.01) Remove images (US 03.03.01) Browse events, profiles, images (US 03.04.01-06.01) Remove organizers (US 03.07.01) Review notification logs (US 03.08.01)</div> <div>Collaborators Event Profile ImageManager NotificationLog FirebaseDatabase</div>	<div>Entrant</div> <div>Responsibilities Join event waiting lists (US 01.01.01) Leave event waiting lists (US 01.01.02) View available events (US 01.01.03) Accept/decline invitations (US 01.05.02, 01.05.03) View event history (US 01.02.03) Scan QR codes (US 01.06.01)</div> <div>Collaborators Event WaitingList Profile QRCodeScanner Notification</div>	<div>Organizer</div> <div>Responsibilities Create and manage events (US 02.01.01) Set registration periods (US 02.01.04) Upload/update event posters (US 02.04.01, 02.04.02) Run lottery draws (US 02.05.02) View and manage entrant lists (US 02.06.01-05) Send notifications (US 02.07.01-03) Enable/disable geolocation (US 02.02.03)</div> <div>Collaborators Event LotterySystem NotificationManager QRCodeGenerator ImageManager</div>	<div>WaitingList</div> <div>Responsibilities Maintain list of entrants (US 02.02.01) Add entrants to list (US 01.01.01) Remove entrants from list (US 01.01.02) Provide count of entrants (US 01.05.04) Enforce waiting list capacity limit (US 02.03.01) Store entrant geolocation data</div> <div>Collaborators Event GeoLocationManager Entrant LotterySystem</div>
<div>Event</div> <div>Responsibilities Store event details (name, description, dates) Manage registration periods Store event capacity and availability Track event status (open/closed) Store event poster image Store organizer reference Manage geolocation requirement</div> <div>Collaborators Organizer Waiting List QRCode ImageManager GeoLocationManager</div>	<div>EventFilter</div> <div>Responsibilities Filter events by interests (US 01.01.04) Filter events by availability/date Search events by keywords Sort events by various criteria</div> <div>Collaborators Event Entrant</div>	<div>EventFilter</div> <div>Responsibilities Randomly select entrants (US 02.05.02) Ensure fair selection process (US 01.05.05) Handle replacement draws (US 02.05.03) Track selection status of entrants Manage selected, enrolled, and cancelled lists</div> <div>Collaborators Waiting List Entrant NotificationManager Event</div>	<div>QRCodeScanner</div> <div>Responsibilities Scan QR codes using device camera (US 01.06.01) Decode QR code data Navigate to event details (US 01.06.02) Handle scanning errors</div> <div>Collaborators Event Entrant Camera Manager</div>
<div>GeoLocationManager</div> <div>Responsibilities Capture device location when joining waitlist Store location data for entrants Provide location data for map view (US 02.02.02) Respect geolocation settings (US 02.02.03)</div> <div>Collaborators WaitingList Event Entrant DeviceManager</div>	<div>NotificationLog</div> <div>Responsibilities Log all sent notifications (US 03.08.01) Store notification metadata (sender, recipient, time) Provide logs for admin review Track notification delivery status</div> <div>Collaborators NotificationManager Administrato FirebaseDatabase</div>	<div>Profile</div> <div>Responsibilities Store personal information (US 01.02.01) Update profile information (US 01.02.02) Store name, email, phone number Handle profile deletion (US 01.02.04) Store notification preferences</div> <div>Collaborators User Entrant FirebaseDatabase ImageManager</div>	<div>QRCodeGenerator</div> <div>Responsibilities Generate unique QR codes (US 02.01.01) Link QR codes to event details Provide shareable QR code images</div> <div>Collaborators Event Organizer</div>
<div>CSVExporter</div> <div>Responsibilities Export entrant lists to CSV (US 02.06.05) Format data for spreadsheet applications Generate downloadable CSV files</div> <div>Collaborators Waiting List Organizer Event</div>	<div>FirebaseDatabase</div> <div>Responsibilities Store and retrieve all app data Handle real-time data synchronization Manage data security and permissions Provide data backup and recovery</div> <div>Collaborators Event Profile Waiting List NotificationLog</div>	<div>User(Abstarct)</div> <div>Responsibilities Store and manage user profile information Handle device-based identification (US 01.07.01) Manage notification preferences (US 01.04.03) Authenticate user role</div> <div>Collaborators Profile NotificationManager DeviceManager</div>	<div>NotificationManager</div> <div>Responsibilities Send lottery win notifications (US 01.04.01, 02.05.01) Send lottery loss notifications (US 01.04.02) Send custom notifications (US 02.07.01-03) Respect opt-out preferences (US 01.04.03) Log all sent notifications (US 03.08.01)</div> <div>Collaborators Entrant Organizer Notification Log FirebaseMessaging</div> <div>Collaborators Event Entrant LotterySystem GeoLocationManager</div>
<div>DeviceManager</div> <div>Responsibilities Generate unique device identifiers (US 01.07.01) Store device ID for authentication Manage device permissions (camera, location) Handle device-specific features</div> <div>Collaborators User Profile GeoLocationManager</div>	<div>ImageManager</div> <div>Responsibilities Upload event posters (US 02.04.01) Update event posters (US 02.04.02) Store and retrieve images from Firebase Allow admin to browse images (US 03.06.01) Delete inappropriate images (US 03.03.01)</div> <div>Collaborators Event FirebaseDatabase Administrator</div>		