

| User | |
|--|---|
| <ul style="list-style-type: none"> - Store core user info (id, name, email, phone) - Provide getters/setters - Provide abstract role getter | <ul style="list-style-type: none"> - Entrant - Organizer - Admin |

| Entrant | |
|--|---|
| <ul style="list-style-type: none"> - Represent entrant user - Store entrant profile info - Provide role = 'entrant' | <ul style="list-style-type: none"> - User - UserController - EntrantProfileActivity - EventListActivity - EventDetailsActivity |

| Organizer | |
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| <ul style="list-style-type: none"> - Represent organizer user - Provide role = 'organizer' | <ul style="list-style-type: none"> - User - OrganizerActivity - EventController |

| Admin | |
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| <ul style="list-style-type: none"> - Represent admin user - Provide role = 'admin' | <ul style="list-style-type: none"> - User - AdminActivity - UserController |

| Event | |
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| <ul style="list-style-type: none"> - Store event info (name, description, dates, tags, poster) - Map Firestore snapshot to Event | <ul style="list-style-type: none"> - EventController - EventListActivity - EventDetailsActivity - AdminEventListFragment |

| Image | |
|--|---|
| <ul style="list-style-type: none"> - Store image metadata - Decode base64 to Bitmap - Map Firestore snapshot to Image | <ul style="list-style-type: none"> - ImageController - AdminImageListFragment |

| WaitingListEntry | |
|--|---|
| - Store entrant waiting list status for event - Map Firestore document to model | - WaitingListController - UserController - EventDetailsActivity |

| EntrantHistoryItem | |
|---|--|
| - Store historical event record for entrant | - UserController - EventHistoryActivity |

| EventController | |
|---|---|
| - Fetch/filter/create/delete events from Firestore - Map documents to Event list | - FirebaseUtil - Event - EventListActivity - AdminEventListFragment - OrganizerActivity |

| UserController | |
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| - Create/update/delete user profiles - Fetch users for admin - Fetch entrant history - Convert Firestore docs to User models | - FirebaseUtil - User - EntrantHistoryItem - EntrantProfileActivity - AdminProfileListFragment |

| WaitingListController | |
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| - Join waiting list - Leave waiting list - Fetch waiting list entry | - FirebaseUtil - WaitingListEntry - EventDetailsActivity - UserController |

| ImageController | |
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| - Fetch images from Firestore - Delete images | - FirebaseUtil - Image - AdminImageListFragment |

| LoginActivity | |
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| - Authenticate users - Validate credentials - Save deviceID - Route based on role | - FirebaseUtil - UserController - AdminActivity - OrganizerActivity - EntrantActivity |

| SignupActivity | |
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| - Register new entrants - Validate email/password - Create Firestore user | - FirebaseUtil - LoginActivity |

| EntrantActivity | |
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| - Entrant dashboard - Open profile, events, history - Seed demo events - Logout | - SessionManager - EntrantProfileActivity - EventListActivity - EventHistoryActivity |

| EntrantProfileActivity | |
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| - Load existing entrant profile - Save/update/delete profile - Validate input | - UserController - Entrant |

| EventListActivity | |
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| - Display events - Apply filters - Navigate to details | - EventController - Event - EventAdapter - EventDetailsActivity |

| EventDetailsActivity | |
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|---------------------------|-------------------------|
| - Display event details | - WaitingListController |
| - Join/leave waiting list | - Event |
| - Check current status | - WaitingListEntry |

| EventHistoryActivity | |
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| - Display entrant event history | - UserController - EntrantHistoryItem - EventHistoryAdapter |

| AdminActivity | |
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| - Admin dashboard tabs - Logout | - SessionManager - AdminPagerAdapter - AdminEventListFragment - AdminImageListFragment - AdminProfileListFragment |

| OrganizerActivity | |
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| - Organizer dashboard tabs - Navigate between Events and Create | - OrganizerPagerAdapter - SessionManager |

| WaitingListActivity | |
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| - Show live waiting list - Auto-refresh on Firestore updates | - FirebaseFirestore - SimpleEntrantAdapter - WaitingListEntry |

| AdminEventListFragment | |
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| - Display events for admin - Delete events | - EventController - AdminEventAdapter - DeletionConfirmationUtil |

| AdminImageListFragment | |
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| - Display images for admin | - ImageController |
| - Delete images | - AdminImageAdapter - DeletionConfirmationUtil |

| AdminProfileListFragment | |
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| - Display user profiles | - UserController |
| - Delete profiles | - AdminProfileAdapter - DeletionConfirmationUtil |