

## Subject to change

Logger	
- Maintain log of notifications	- Notifier
- Maintain DBProxy log	- DBProxy
Notifier (publisher subscriber / observer pattern)	
- Store subscribers	- Logger
- Add subscribers	- Message
- Remove subscribers	
- Notify subscribers with Message	
- Log to Logger	
Message	
- Store notification data <ul style="list-style-type: none"><li>- Content</li><li>- Date</li><li>- Organizer</li></ul>	- Notifier
DBProxy (proxy pattern)	
- Authenticate requests	- EventDB
- Route requests to corresponding firebase databases	- UserDB
- Log requests to Logger	- OrganizerDB
- Optional: cache common queries	- AdminDB
	- Logger
	- Optional: decouple into AuthenticationService
EventDB	
- Store events	- DBProxy
- Add events	- Event
- Read events	
- Update events	
- Delete events	

Event	
- Store event data <ul style="list-style-type: none"><li>- Name</li><li>- Description</li><li>- Time</li><li>- Place</li><li>- Poster</li><li>- Organizer</li><li>- Entrants</li><li>- Attendees</li></ul>	- EventsDB

UserDB	
-	- DBProxy - User

User	
-	- UserDB

OrganizerDB	
-	- DBProxy - Organizer

Organizer	
-	- OrganizerDB

AdminDB	
-	- DBProxy - Admin

Admin	
-	- AdminDB

MainActivity	
<ul style="list-style-type: none"> <li>- Handle navigation between fragments</li> </ul>	<ul style="list-style-type: none"> <li>- SignInFragment</li> <li>- HomeFragment</li> <li>- ProfileFragment</li> <li>- SettingsFragment</li> <li>- EventCreationFragment</li> <li>- EventDetailsFragment</li> <li>- NotificationsFragment</li> <li>- MapFragment</li> <li>- QRScanFragment</li> <li>- AdminDashboardFragment</li> </ul>

SignInFragment	
<ul style="list-style-type: none"> <li>- Render UI on state change</li> <li>- Pass user input to SignInController</li> </ul>	<ul style="list-style-type: none"> <li>- MainActivity</li> <li>- SignInController</li> </ul>

SignInController	
<ul style="list-style-type: none"> <li>- Handle state</li> <li>- Authenticate user</li> <li>- Interact with database</li> <li>- Optional: single-sign on with Google account</li> </ul>	<ul style="list-style-type: none"> <li>- SignInFragment</li> <li>- DBProxy</li> <li>- User</li> <li>- Organizer</li> <li>- Admin</li> </ul>

HomeFragment	
-	<ul style="list-style-type: none"> <li>- MainActivity</li> <li>- HomeController</li> </ul>

HomeController	
-	<ul style="list-style-type: none"> <li>- HomeFragment</li> </ul>

ProfileFragment	
-	<ul style="list-style-type: none"> <li>- MainActivity</li> <li>- ProfileController</li> </ul>

ProfileController	
-	- ProfileController

SettingsFragment	
-	- MainActivity - SettingsController

SettingsController	
-	- SettingsFragment

EventCreationFragment	
-	- MainActivity - EventCreationController

EventCreationController	
-	- EventCreationFragment

EventDetailsFragment	
-	- MainActivity - EventDetailsController

EventDetailsController	
-	- EventDetailsFragment

NotificationsFragment	
-	- MainActivity - NotificationsController

NotificationsController	
-	- NotificationsFragment
MapFragment	
-	- MainActivity - MapController
MapController	
-	- MapFragment
QRScanFragment	
-	- MainActivity - QRScanController
QRScanController	
-	- QRScanFragment
AdminDashboardFragment	
-	- MainActivity - AdminDashboardController
AdminDashboardController	
-	- AdminDashboardFragment