

## Subject to change

Logger	
<ul style="list-style-type: none"><li>- Maintain log of notifications</li><li>- Maintain DBProxy log</li></ul>	<ul style="list-style-type: none"><li>- Notifier</li><li>- DBProxy</li></ul>

Notifier (publisher subscriber / observer pattern)	
<ul style="list-style-type: none"><li>- Store subscribers</li><li>- Add subscribers</li><li>- Remove subscribers</li><li>- Notify subscribers with Message</li><li>- Log to Logger</li></ul>	<ul style="list-style-type: none"><li>- Logger</li><li>- Message</li></ul>

Message	
<ul style="list-style-type: none"><li>- Store notification data<ul style="list-style-type: none"><li>- Content</li><li>- Date</li><li>- Organizer</li></ul></li></ul>	<ul style="list-style-type: none"><li>- Notifier</li></ul>

DBProxy (proxy pattern)	
<ul style="list-style-type: none"><li>- Authenticate requests</li><li>- Route requests to corresponding firebase databases</li><li>- Log requests to Logger</li><li>- Optional: cache common queries</li></ul>	<ul style="list-style-type: none"><li>- EventDB</li><li>- UserDB</li><li>- OrganizerDB</li><li>- AdminDB</li><li>- Logger</li><li>- Optional: decouple into AuthenticationService</li></ul>

EventDB	
<ul style="list-style-type: none"><li>- Store events</li><li>- Add events</li><li>- Read events</li><li>- Update events</li><li>- Delete events</li></ul>	<ul style="list-style-type: none"><li>- DBProxy</li><li>- Event</li></ul>

Event	
<ul style="list-style-type: none"><li>- 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></li></ul>	<ul style="list-style-type: none"><li>- EventsDB</li></ul>

UserDB	
<ul style="list-style-type: none"><li>-</li></ul>	<ul style="list-style-type: none"><li>- DBProxy</li><li>- User</li></ul>

User	
<ul style="list-style-type: none"><li>-</li></ul>	<ul style="list-style-type: none"><li>- UserDB</li></ul>

OrganizerDB	
<ul style="list-style-type: none"><li>-</li></ul>	<ul style="list-style-type: none"><li>- DBProxy</li><li>- Organizer</li></ul>

Organizer	
<ul style="list-style-type: none"><li>-</li></ul>	<ul style="list-style-type: none"><li>- OrganizerDB</li></ul>

AdminDB	
<ul style="list-style-type: none"><li>-</li></ul>	<ul style="list-style-type: none"><li>- DBProxy</li><li>- Admin</li></ul>

Admin	
<ul style="list-style-type: none"><li>-</li></ul>	<ul style="list-style-type: none"><li>- AdminDB</li></ul>

MainActivity	
<ul style="list-style-type: none"> <li>- Handle navigation between fragments</li> </ul>	<ul style="list-style-type: none"> <li>- SingInFragment</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>-</li> </ul>	<ul style="list-style-type: none"> <li>- MainActivity</li> <li>- HomeController</li> </ul>

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

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