Join Community Use Case Analysis
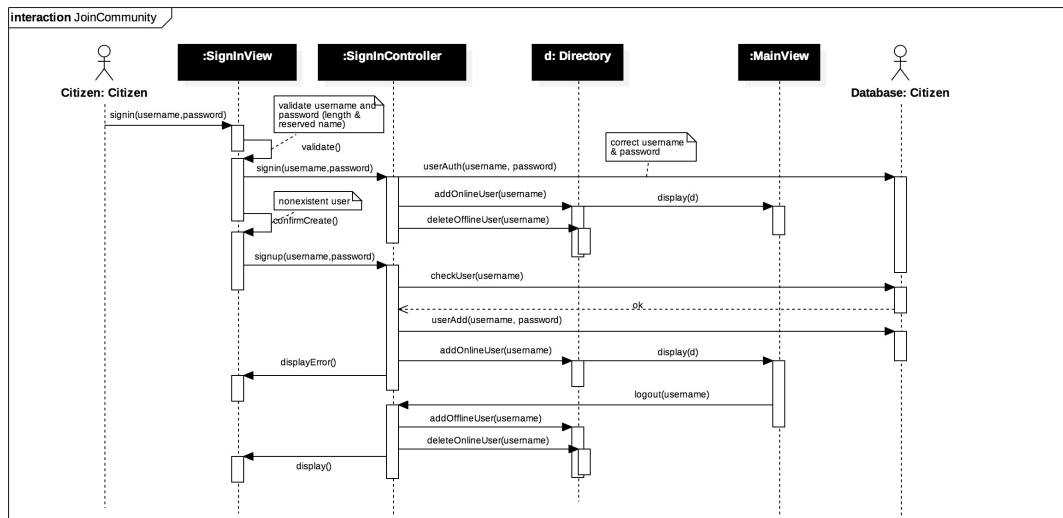
1. Analysis Classes

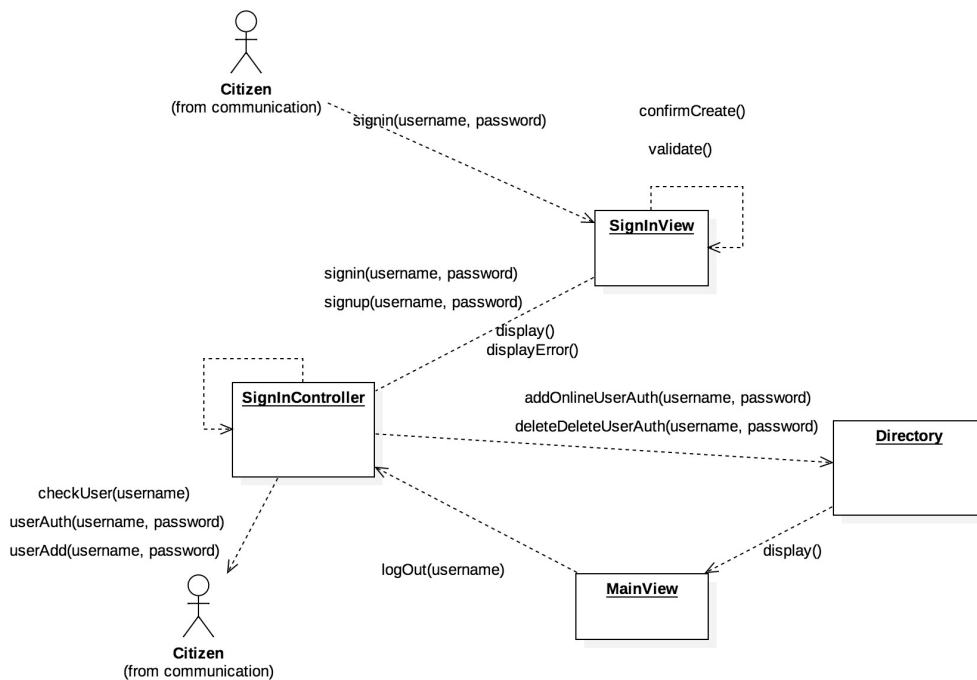**Entity Classes:** Directory

Boundary Classes: SignInView, MainView

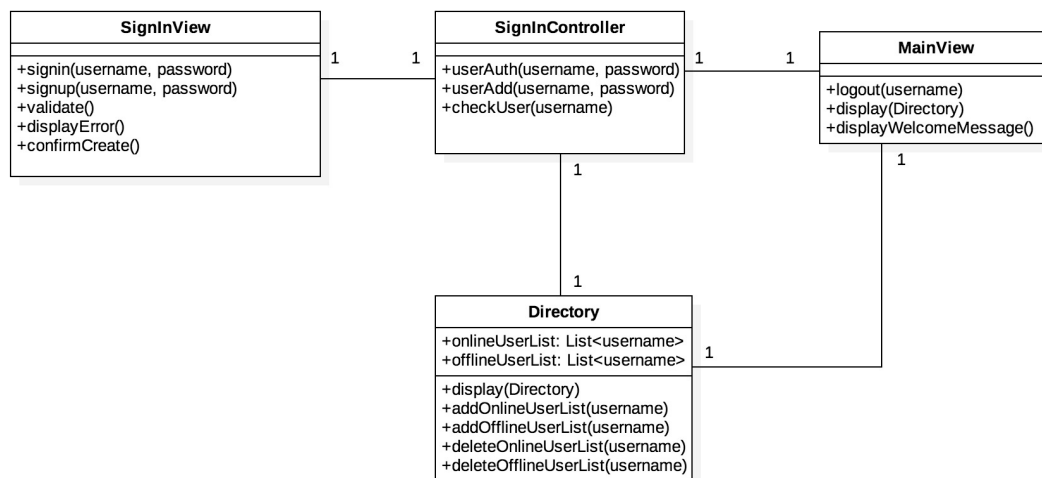**Control Classes:** SignInController

2. Basic Flow (Sequence Diagram)

3. Basic Flow (Communicate Diagram)

4. View Of Participating Classes (VOPC)

SignInView

+signin(username, password)
+signup(username, password)
+validate()
+displayError()
+confirmCreate()

SignInController

+userAuth(username, password)
+userAdd(username, password)
+checkUser(username)

MainView

+logout(username)
+display(Directory)
+displayWelcomeMessage()

Directory

+onlineUserList: List<username>
+offlineUserList: List<username>

+display(Directory)
+addOnlineUserList(username)
+addOfflineUserList(username)
+deleteOnlineUserList(username)
+deleteOfflineUserList(username)

5. Table Mapping from Class Diagram to Implementation Elements

Class Diagram	Implementation Element
SignInController	app.js
SignInView	signin.html, signin.js
MainView	index.html, chat.js