

## Iteration 5

### Assignment: Analysis and Design models for the Administer User Profile

Team ID: SB5

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## Analysis Model

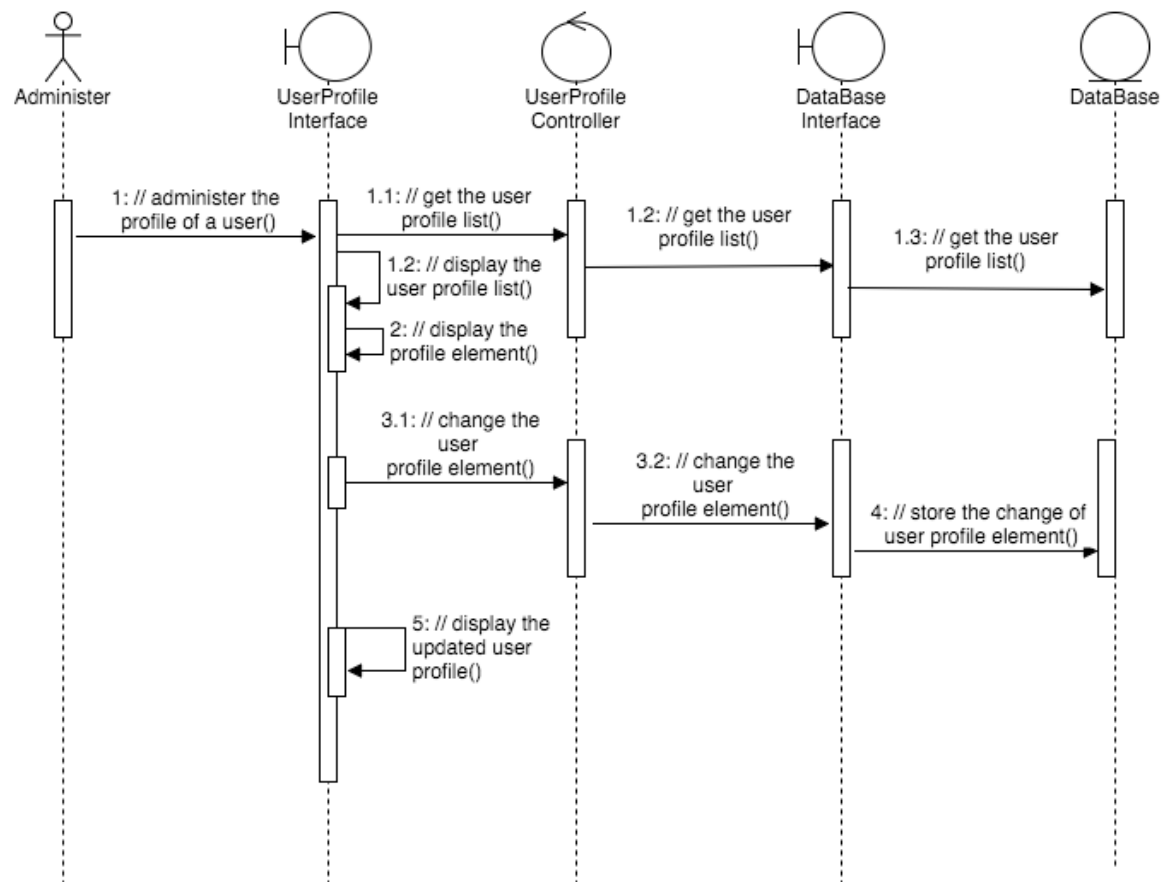
- 1. List of analysis classes

Entity Class: Administer, Database

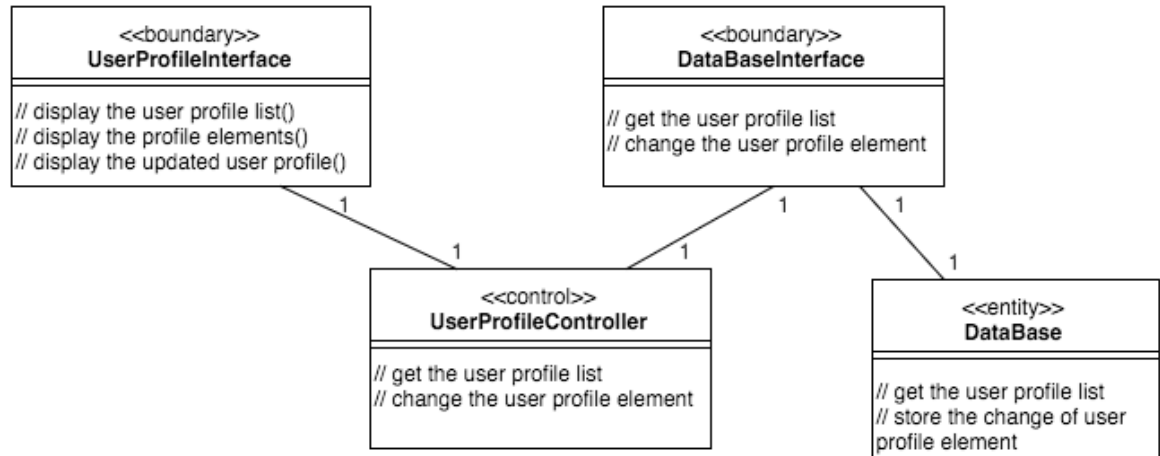
Boundary Class: User Profile Interface, DataBase Interface

Control Class: User Profile Controller

- 2. Sequence Diagram



- 3. High-level class diagram (VOPC)



## Design Model

- Detailed class diagram demonstrating architectural patterns and design pattern

*Model-View-Controller, Layered and event-based architectural patterns together with observer design pattern. Three layers (model layer, view layer and controller layer) are involved. Model plays as the “notifier” while view plays as the “subscriber” so that observer design pattern is implemented through socket event. It is also event-based as socket is event-based.*

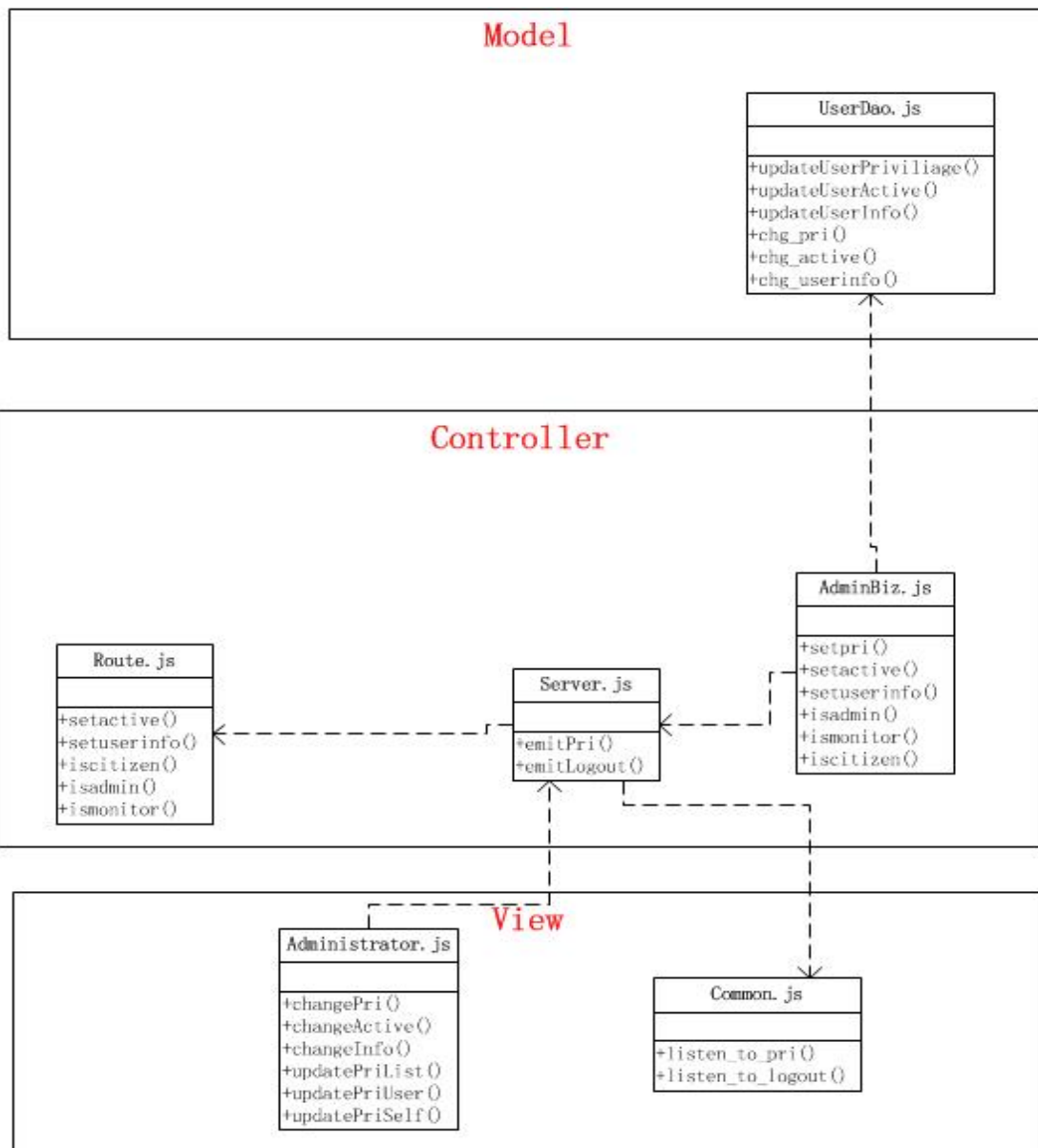
*Deal with Privilege:*

- 1) *administrator.js* send change user privilege API
- 2) Above API will get to *route.js* and get to *adminBiz.js* to be processed
- 3) *adminBiz.js* calls the *updateUserPrivilege* function in *adminDao.js* to change the privilege information in database
- 4) *server.js* send the socket event via *emitPri* and *common.js* get the socket event and changed the privilege in real time

*Deal with inactive users:*

*The same communications made as “Deal with Privilege”.*

- 1) *administrator.js* send change active/inactive status API
- 2) Above API will get to *route.js* and get to *adminBiz.js* to be processed
- 3) *adminBiz.js* calls the *updateUserActive* function in *adminDao.js* to change the active/inactive status in database
- 4) *server.js* send the socket event via *emitLogout* and *common.js* get the socket event and changed the active/inactive status in real time and log out the user who has been inactivated



## Mapping

Mapping for Administer Profile (MVC Architecture)			
	Analysis Classes	Implementation Elements	Files Involved
MODEL	Boundary Class	User Profile lists with user profile elements	userDao.js
	DataBaseInterface		
	Entity Class	Profile elements: Privilege levels, Username, Password, Active/Inactive Status	chatroom.db
	Database		
View	Boundary Class	User Profiles	administrator.js
	UserProfileInterface		
Controller	Controller Class	Admin Profile Control	adminBiz.js
	UserProfileController		