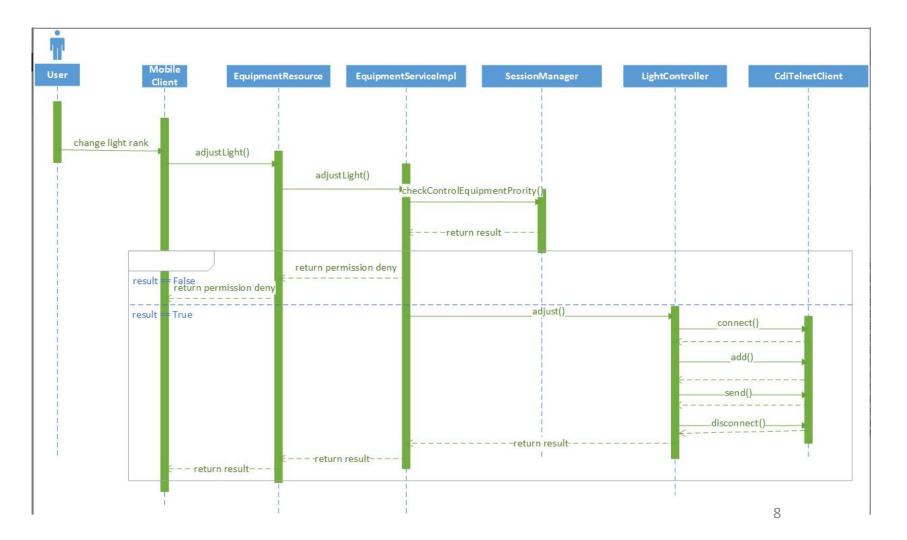
## Reservation System — User Flow UML design; Hardware Interaction; Web Service

## **Background**

Media lab in our campus needs a reservation system on mobile device for room, equipment and smart furniture booking. My job in this project is subsystem interaction, hardware control and web service design.

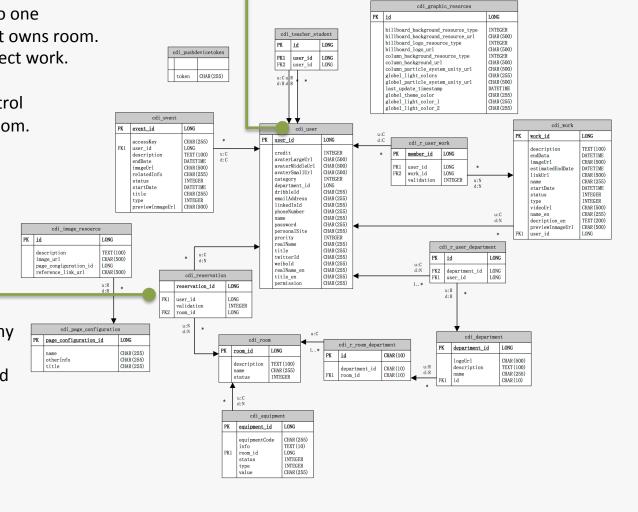


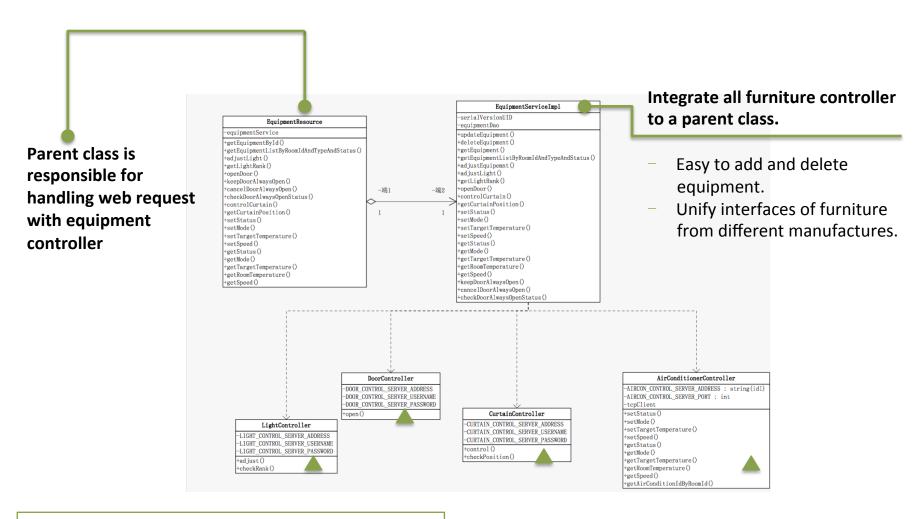
## **User Entity**

- User optionally belongs to one department. Department owns room.
- User can involve in a project work.
- User reserved rooms.
- User is authorized to control equipment in reserved room.

## Relationships

- One user can reserve many rooms.
- One room can be reserved by several users for different equipment.
- Validation and user priority need to be checked.





▲ Controller transfer commend with password and protocol particularly for individual equipment server.