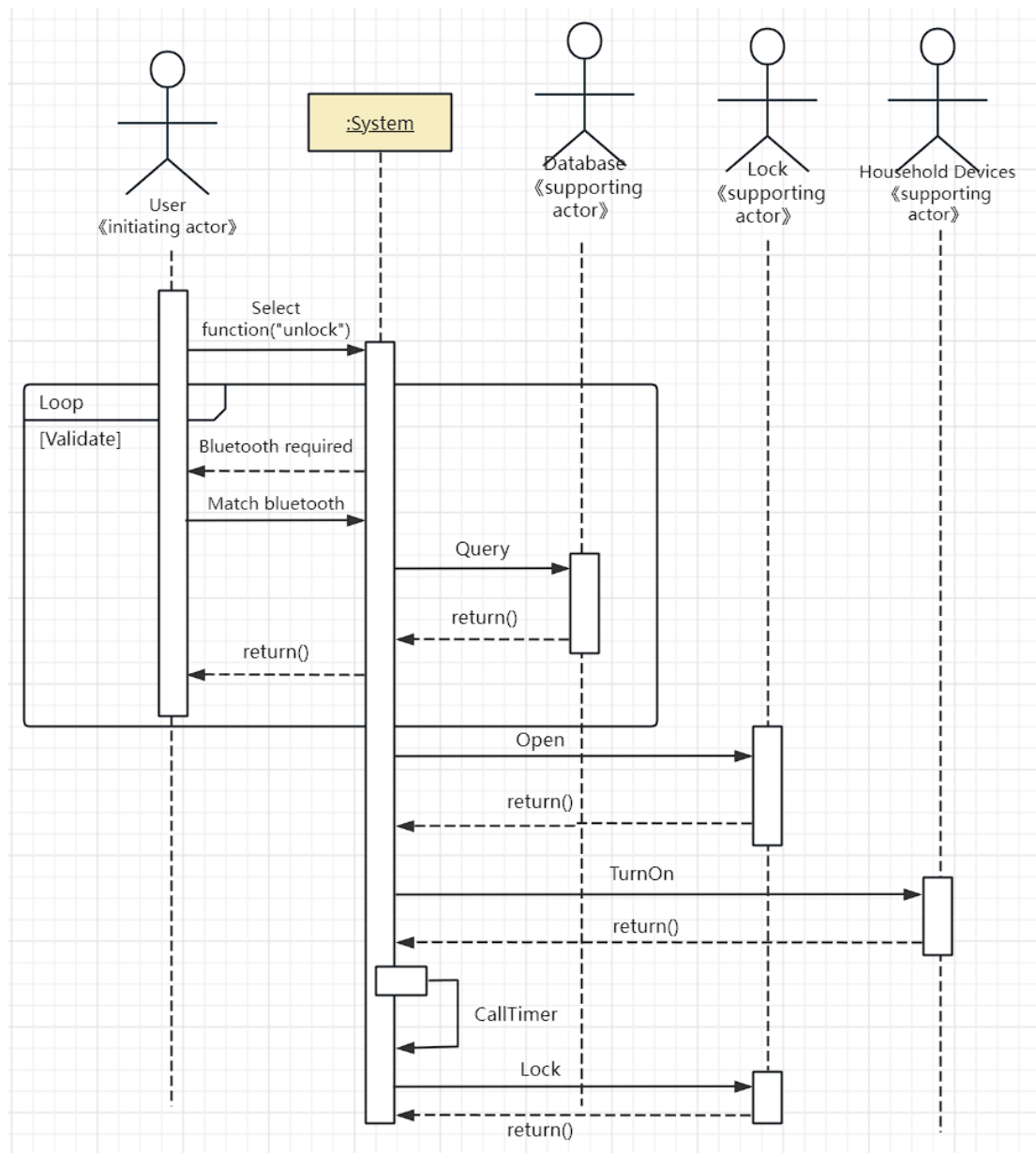# Course Assignment (Mini Project I-2)

■ 谭诚 10215101460

1) Draw system sequence diagram for UC-1(Unlock) and UC-4(RetireUser)
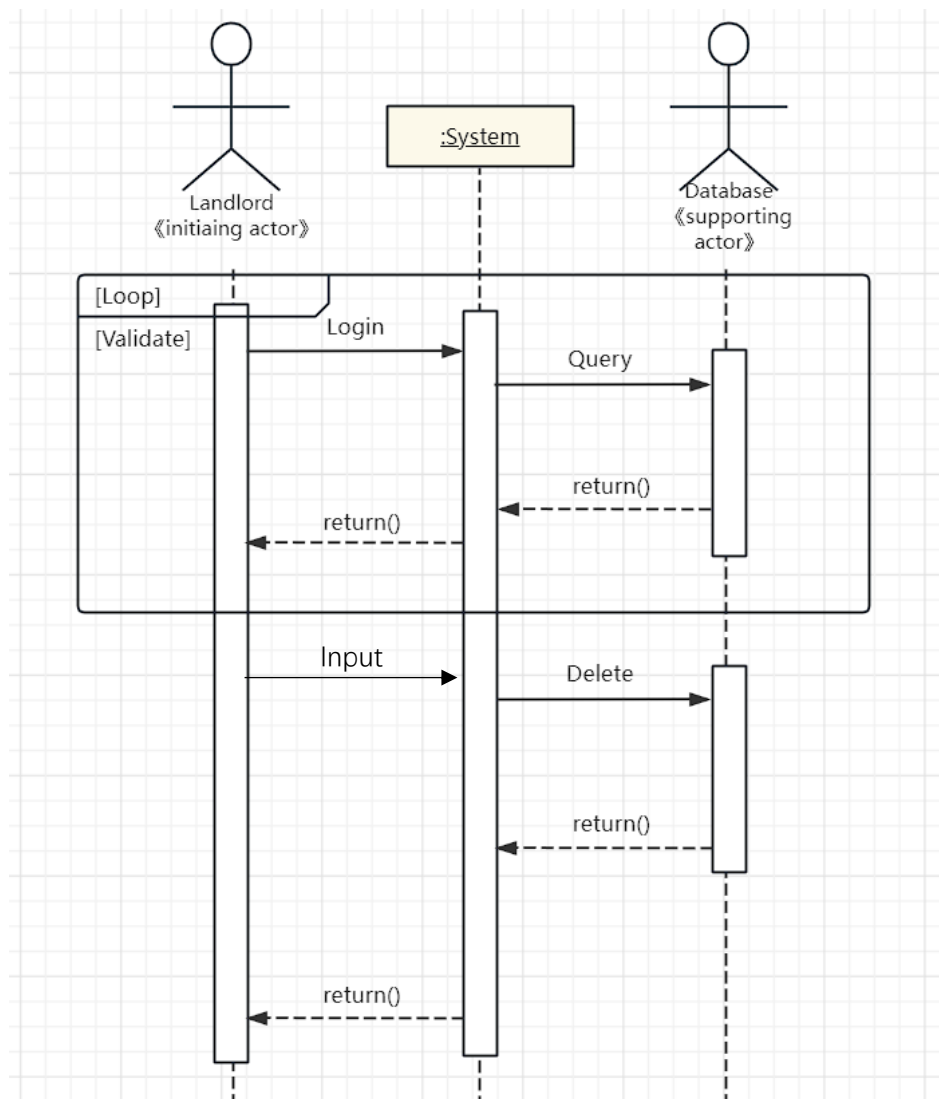
**Sequence diagram for UC-1(Unlock)：**



**Sequence diagram for UC-4(RetireUser)：**

*See it in the next page.*

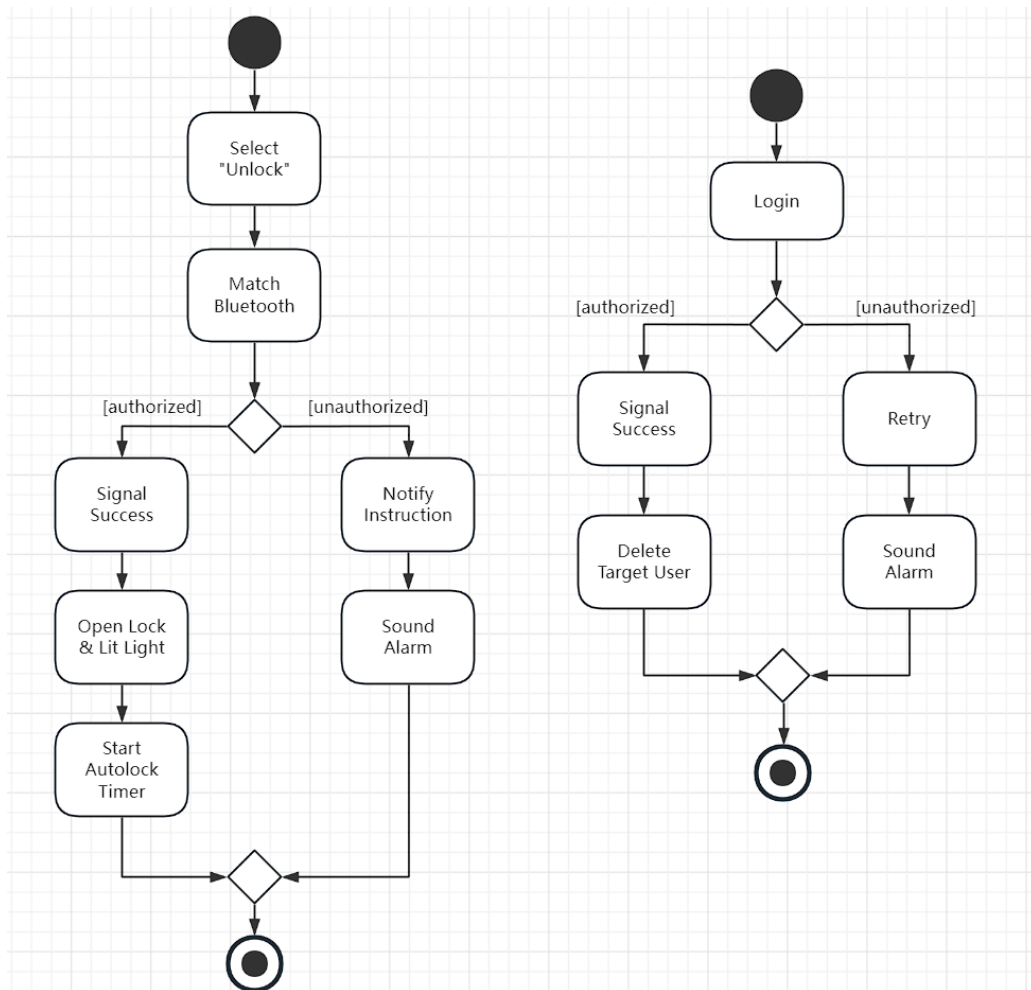**Sequence diagram for UC-4(RetireUser)：**



2) Draw activity diagram for UC-1(Unlock) and UC-4(RetireUser)

**Activity diagram for UC-1(Unlock)：**

*See it in the next page.*

**Activity diagram for UC-4(RetireUser)：**

*See it in the next page.*

3) Domain model for UC-4(RetireUser): CRC 分析

**Extracting the Responsibilities**

| Responsibility Description | Type | Concept Name |
|---|---|---|
| Rs1. Coordinate actions of concepts associated with this use case and delegate the work to other concepts. | D | Controller |
| Rs2. Form specifying the delete parameters for database log retrieval (from UC-4). | K | Delete Request |
| Rs3. Render the operation panel and retrieved records into an UI for sending to actor's screen for display. | D | PageMaker |
| Rs.4 A UI to show the actor the current context, which contains current tenants and all operations. | K | UserPage |
| Rs.5 Support SQL service to the system, e.g., JDBC driver. | D | DB-Connection |
| Rs.6 An object generated by system to be deleted. | K | TargetUser |

**Extracting the Associations**

*See it in next page.*

## Extracting the Associations

| Concept Pair | Association Description | Association Name |
|---|---|---|
| Controller↔ Page Maker | Controller passes requests to PageMaker and receives back pages prepared for displaying | conveys requests |
| PageMaker↔ DB-Connection | Database Connection passes the retrieved data to Page Maker to render them for display | provides data |
| PageMaker↔ UserPage | PageMaker prepares the UI to Userpage | prepares |
| Controller↔ DB-Connection | Controller passes delete requests to DB-Conn. | conveys requests |
| Controller↔ TargetUser | Controller generates the targeted user entity object, as the Java DAO item. | generates |
| TargetUser↔ DB-Connection | TargetUser acquires SQL methods in the mapper layer, which needs DB-Connection to operate. | TargetUser |

## Domain model for UC-4(RetireUser)