

# Smart Lock - Progress Description

## Page Flow

File directory: "Page Flow.png"

Previously, we used 3 pictures to show the page flow, but it was not easy to understand. Now we integrated them into a single picture.

## Database Schema

File directory: "Database Schema.png"

As the development going on, we found our database design has a problem. We changed the database schema to customize for our current development. Please refer the "Database Schema.png" in our folder.

## Class Diagram

File directory: "Class Diagram.pdf"

Optimized the class diagram. Tuned the code structure.

Added a package called "interfaces" which contains bunch of interfaces declaring methods used for different kinds of operations.

Added 3 more interfaces in ui, database, local package to store constants used for UI, database and servlet functions. For example, the message to pop up when getting an exception or the URL string of servlets.

## Server Code

File directory: "SmartLockBackEnd/"

For the back end part, all of the servlets have been created. They can communicate with the front end device. The back end servlet folder has 4 main parts: user, property, lock, lock activity. The user parts have been done, which can communicate with the database and finish all of the create, read, update and delete functions. The others parts are to be finished

## Client Code

File directory: "SmartLockApp /"

Finished the `HttpConnection` class, which provides a method to do HTTP post with object stream. Now our Android client can communicate with the server part to send and receive user data.

Finished all the code related to login function. But not yet test.