Else

**Self-Check-OutWaiting**

**Do: Display Processing Page**

**UpdateRoomInfo**

**Do: Update Rooms’ Statue Information in Database**

**Check-Out Request is Accepted**

**Self-Check-Out**

**Do: Send Check-Out Request**

**AccessRoom**

**Do: User Gain Authority To Access Room Devices Under His Ringsted Room**

**PaymentRequest**

**Do: Fill up All Payment Information**

**Self-Check-In**

**Do: Choose Room(s) Users Want**

**DisplayRoom**

**Do: Display All Empty Rooms’ Information**

**Choose Self-Check-in or out**

Self-Check-In-and-out

Else

**SendOrder**

**Do: Send Order to the Devices**

**LoadConditionInfo**

**Do: Display Current Statues Information Under the Chosen Condition**

**UpdateDevicesInfo**

**Do: Update Device’s Statue Information in Database**

**SendOrder**

**Do: Send Order to the Devices**

**ChangeDevicesStatues**

**Do: Display Chosen Device’s Statue and Ask If User Wants Any Change**

**Choose an available condition**

**SaveCondition**

**Do: Ask for a ConditionName(String) and Short Chosen Devices’ Current Statues Information Under the name**

**If Chosen Devices Are More Than One**

**Choose available devices**

**Choose an available room**

**AccessRoomDevices**

**Do: Display and Access Devices Under the Chosen Room**

Else

Mange Room Devices

Else

**IdentificationCheck**

**Do: Check Facticity Of the Information By Face Identification Or Finger Print**

**InformationFillUp**

**Do: Sever Asks For Users Basic Information(such as users’ fin number)**

**PasswordSet**

**Do: Ask The User For A Password(String)**

**Exist: The Password Is Unique**

**InformationShort**

**Do: Short Into Database (SQL) Under A Unique User ID(the last ID (Int) number =+1)**

**DisplayRoomInfo**

**Do: Display and Access Room No Under Current User ID From Database**

**MainMenu**

**Do: Display Menu Option**

**Exist: Receive An Option**

**LoginCheck**

**Do: Ask User the User ID and Password**

**If The Information Is Correctly Matched, Access To Main Menu**

Existed user register

New user register

**User Send Log In Request**