American International University-Bangladesh (AIUB)

Department of Computer Science

CSC 2210 Object Oriented Analysis and Design (OOAD)

Section: M

Women's Hostel Management System

An Object-Oriented Analysis and Design (OOAD) Project Submitted
By

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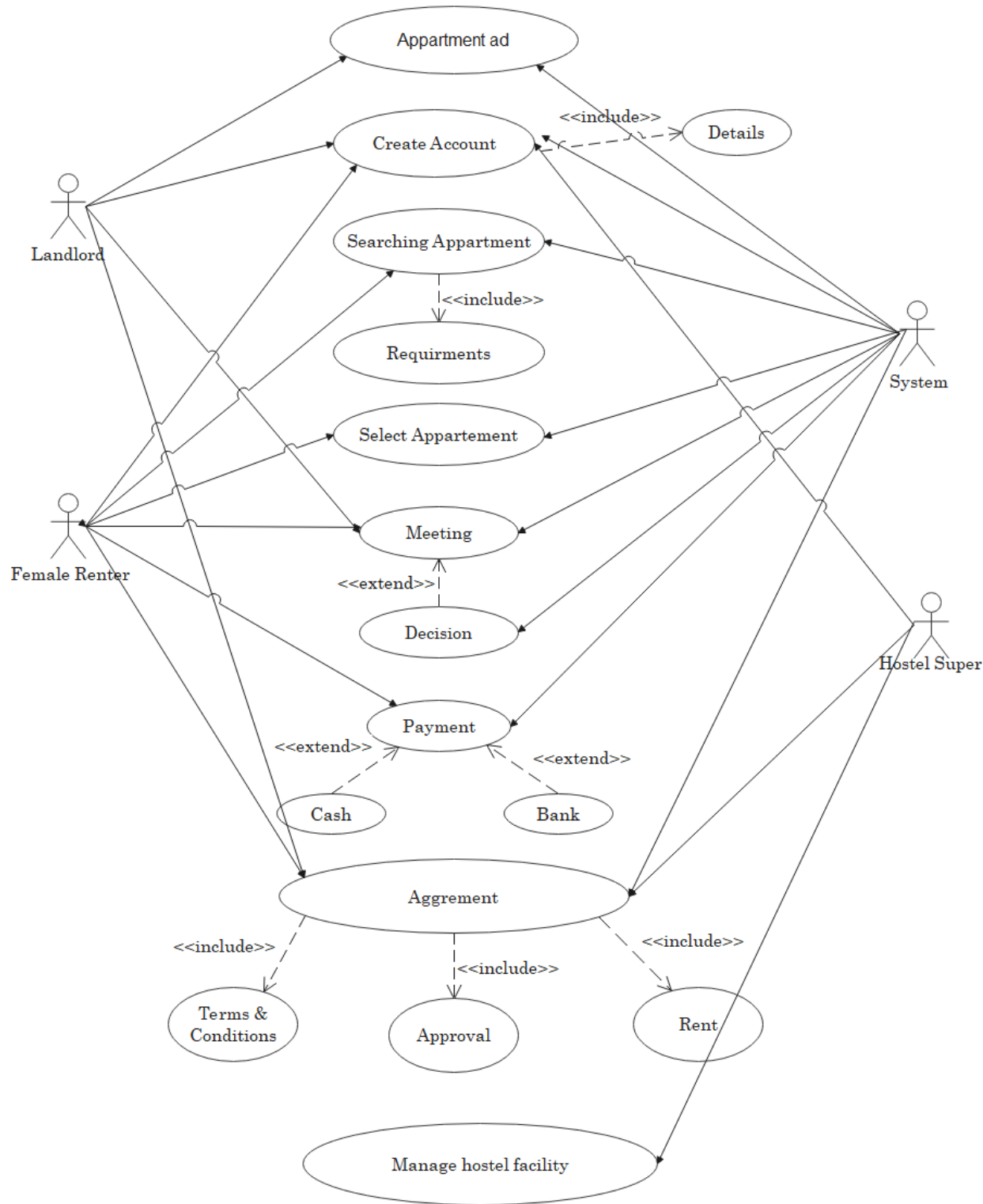
Project Overview:-

The name of the project is 'Womens's Hostel Management System'. It is related with any age of women where we can provide a hostel in the easiest way. They can find their desired room with all the basic facilities. The hostel is suitable for female students as well as working women. Once the renter chooses her particular room and bed, they can meet the owner and go through the further process. This hostel management system would give the women a hassle free living space and the place would be comfortable and fully secure.

Use Case Diagram:

Case Study-

In a Women's Hostel Management System, a flat owner and a female renter can create an account with a system analysis to identify, clarify and organise system requirements. The system would manage by a hostel super admin. she would check both flat owner's and the renter's authentication by the system. The types of facilities are availability of rooms , beds as well as flats. Also there would be some facilities like WiFi , maid, laundry and food . Renter's need to search to find their preferable place . After searching process they can select a particular one and meet the flat owner through system. If the requirements of both of the parties match , they can sign the agreement with terms and conditions. Renters can pay the rent by cash or by bank.
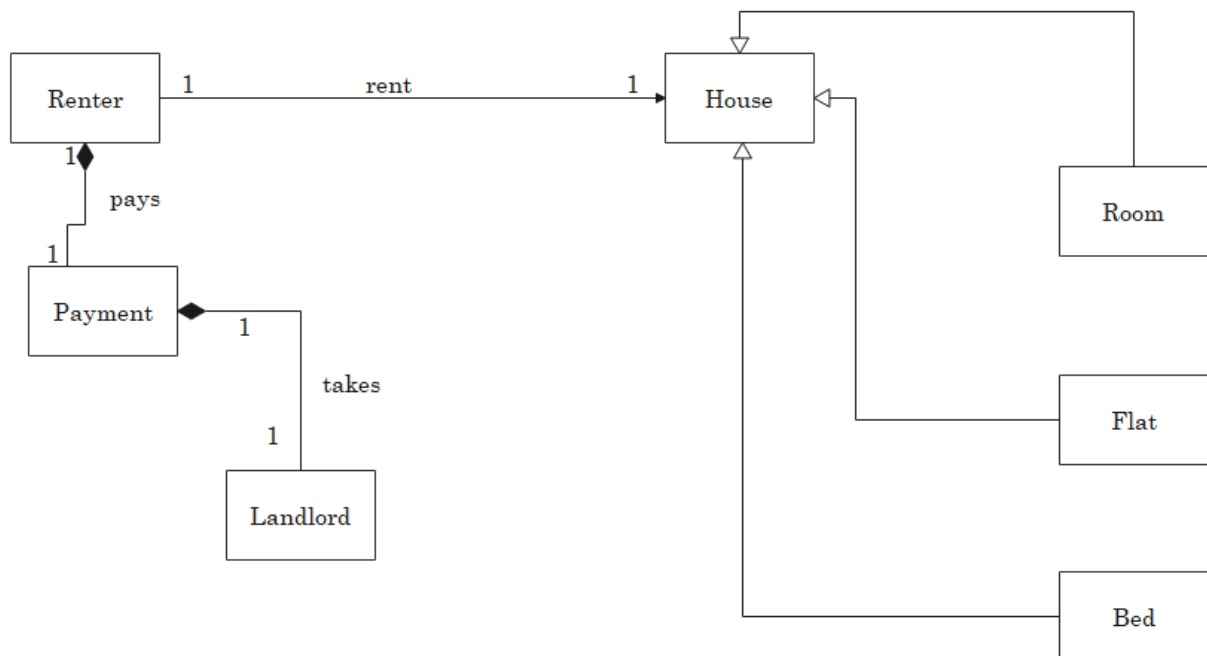
Diagram -

Class Diagram-

Case Study-

A hostel management system is managed by the landlord and a hostel super. Each renter need to have her full identification. The building of the hostel is either a house or a flat. Each flat contains one or more rooms and beds . After confirming the procedures renter have to go through the payment method.
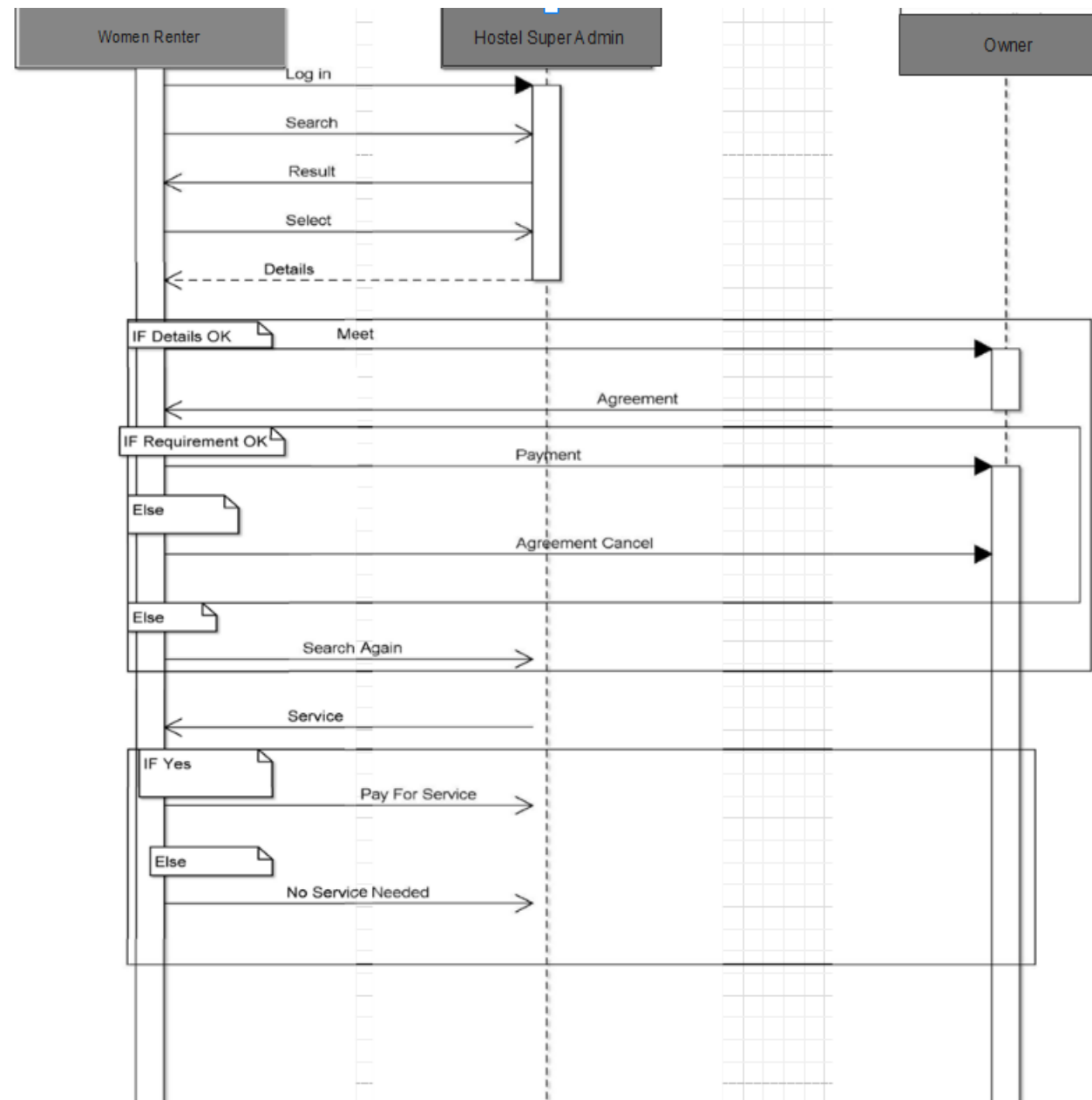
Diagram-

Sequence Diagram:

Case-Study:

In a hostel management system where a flat owner and hostel super admin will create an ad for rent. They will be able to login in their account by using their credentials such as hostel facilities, rooms, payments system. Female renters need to search their preferable place and select a particular space which will meet the requirements of both renter and owner. After that they will sign the agreement. Renters can pay their rents by cash or by bank.
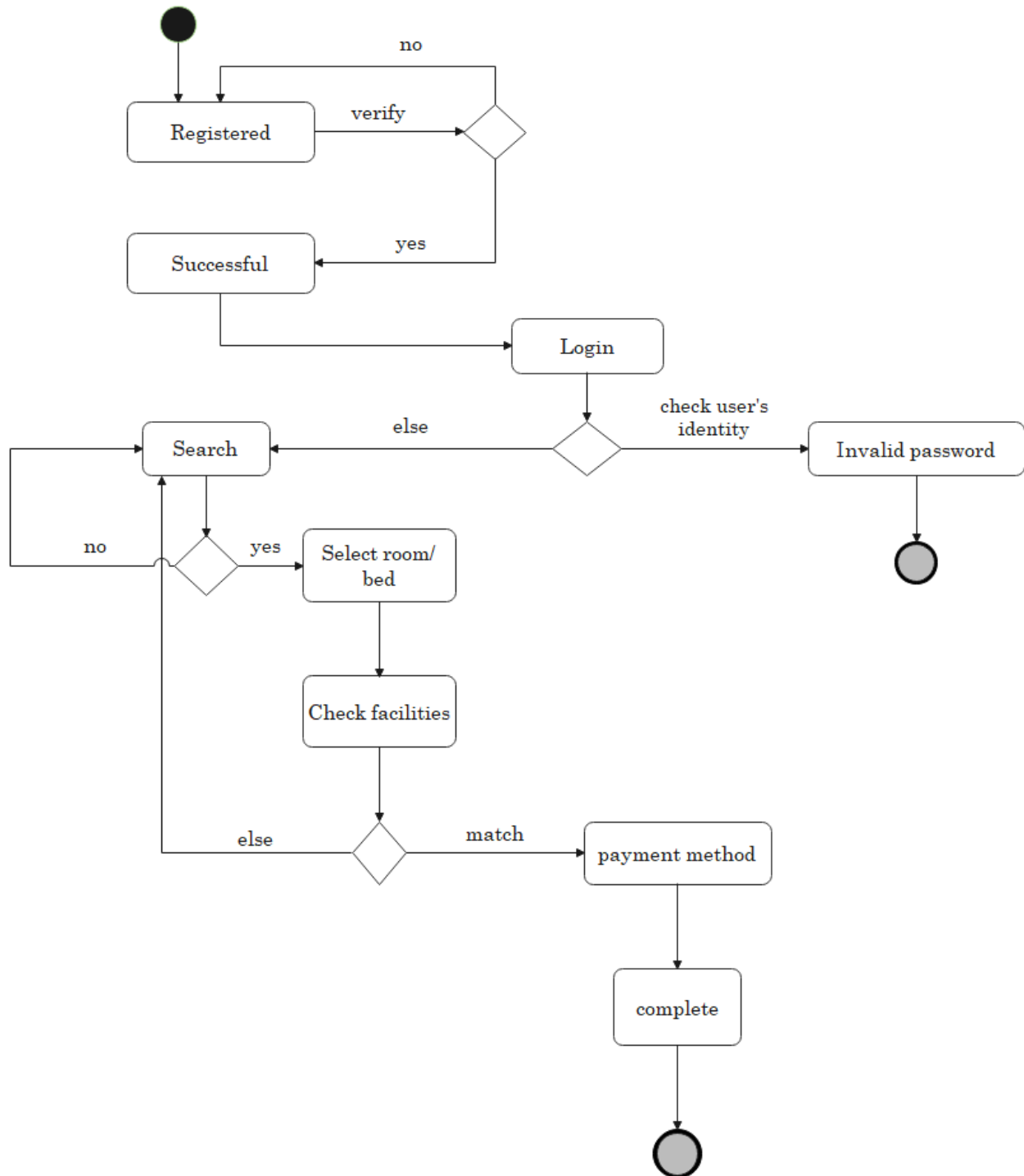
Diagram-

| Women Renter | Hostel Super Admin | Owner |

Log in

Search

Result

Select

Details

IF Details OK — Meet

Agreement

IF Requirement OK — Payment

Else

Agreement Cancel

Else

Search Again

Service

IF Yes

Pay For Service

Else

No Service Needed

Activity Diagram :

Case-Study:

In a Women Hostel Management System, the admin would be able to login using their user name and password . After login, user can manage all the operations on hostel, hostel facilities, beds, rooms, payment methods. All the pages such as beds, rooms, payments are secure and user can access these pages after log in. User will not be able to access this page without verifying their identity.
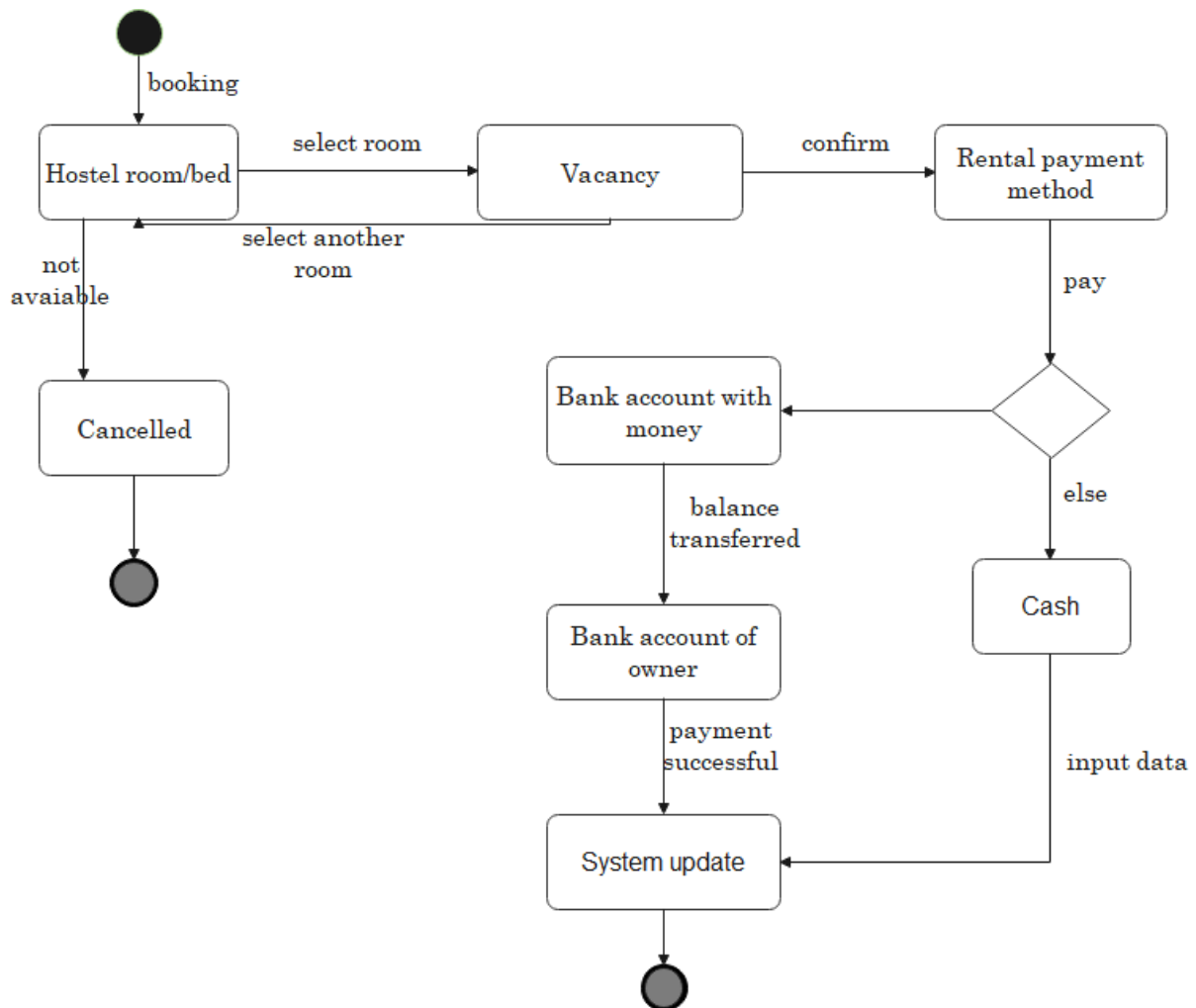
Diagram-

State-chart Diagram-

Case Study-

The renter has to book her desired room and bed if there's enough room/ bed available in the place. If not the booking is not possible. After confirming her particular room she can go ahead to process the payment method. Renter can pay money by cash or bank account. A personal bank account is needed for both renter and owner. Payment would be successful when the money would transferred to the owner's account and the system would be updated automatically. If the renter chooses to pay by cash , then the owner has to input the data to the system.

Diagram-

Conclusion :-

This project will help women to find house, room and bed in the easiest and the shortest way. This will save time and give extra facilities as well as great service. The system will connect both the owner and renters and ensure continuous assistance. Women can live here without any inconvenience. The hostel will maintain all time security service. Overall, this hostel management system will be a pleasant place for the women renters.