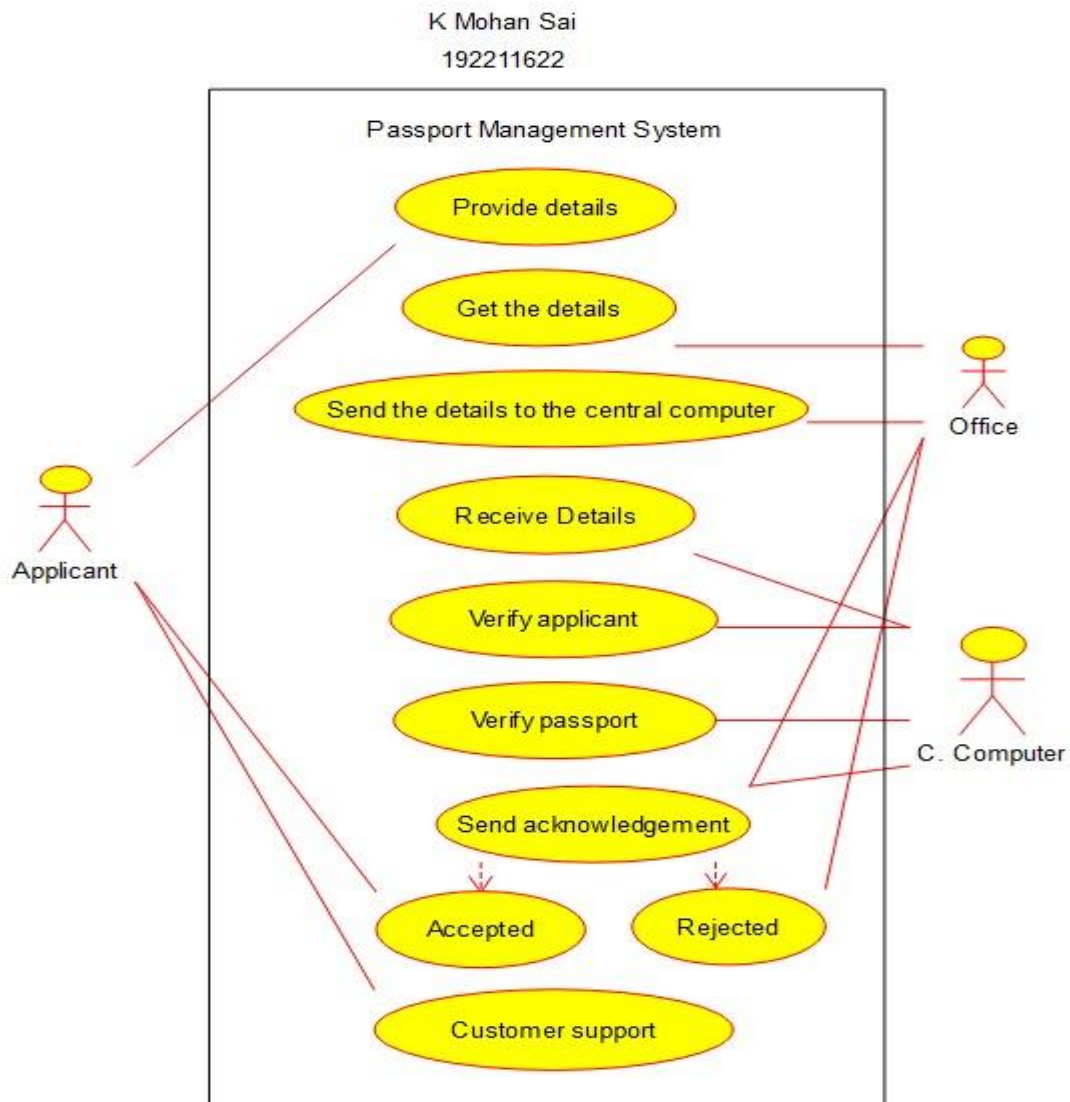# LAB ACTIVITY – 1

**K MOHAN SAI**
**192211622**

1. Develop a system using UML for Passport Management System; it should verify the passport details of the applicant by the central computer.

The details regarding the passport will be provided to the central computer and the computer will verify the details of the applicant and provide approval to the office. Then the passport will issue from the office to the applicant.
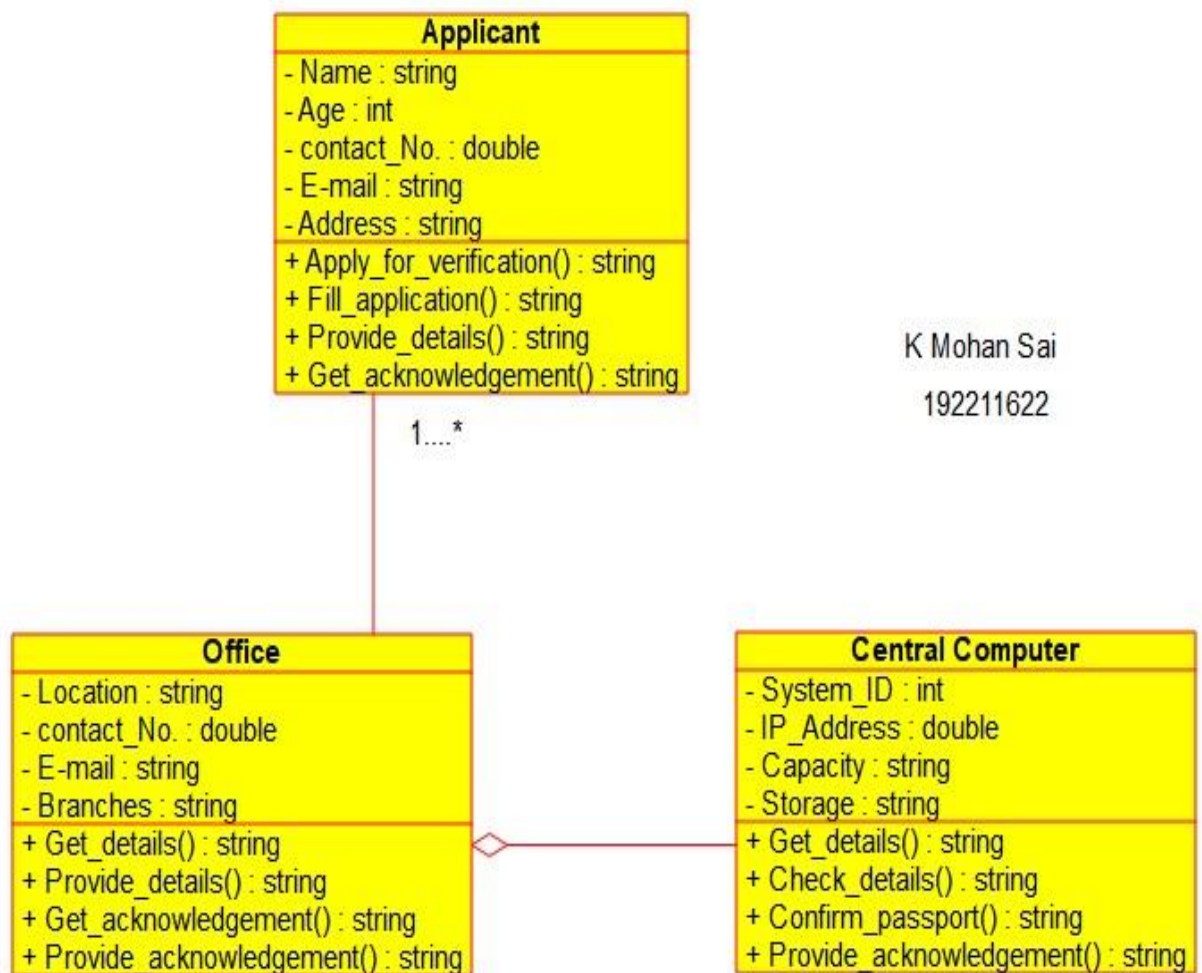
**USECASE DIAGRAM**
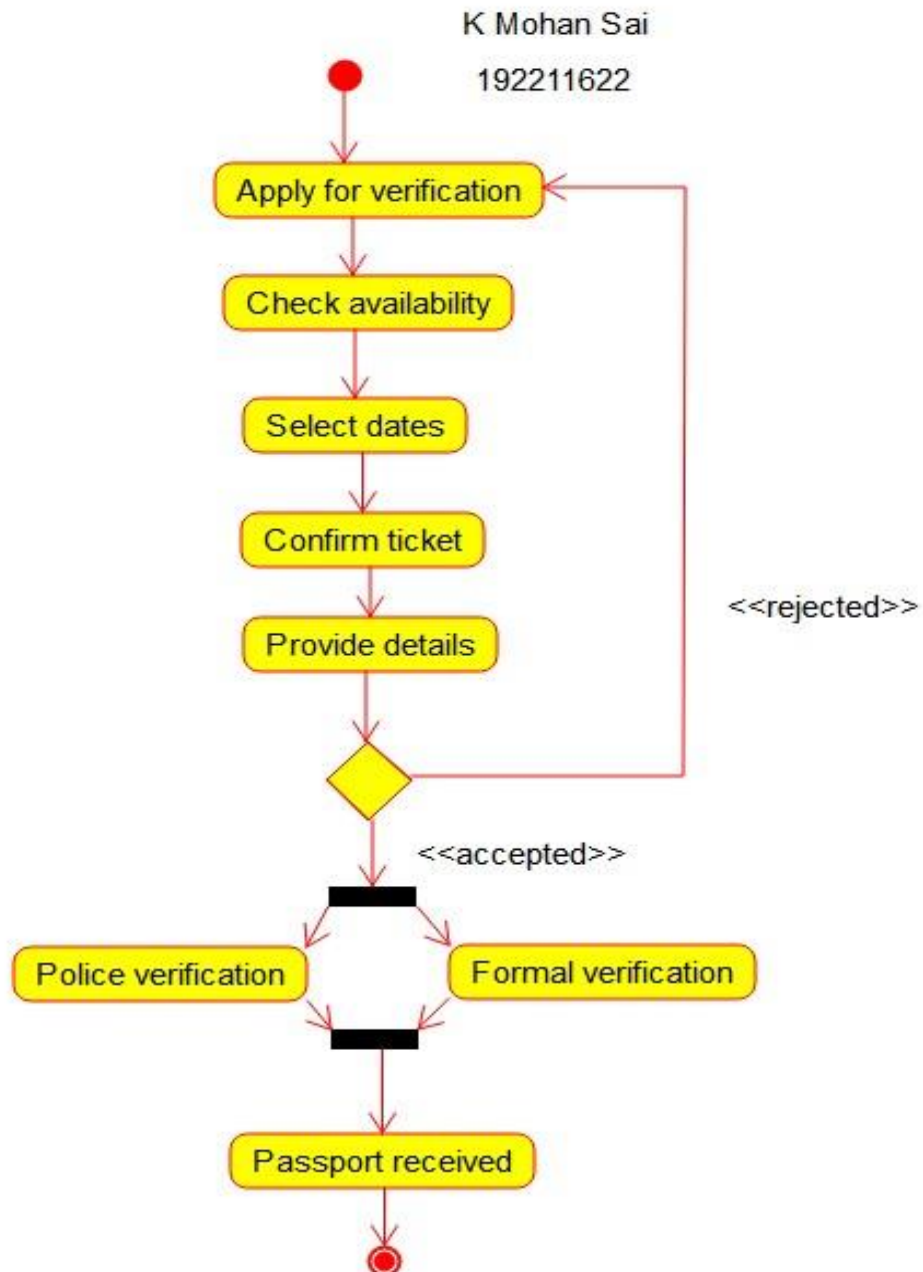
# LAB ACTIVITY – 1

K MOHAN SAI
192211622

**CLASS DIAGRAM**

| Applicant |
| --- |
| - Name : string |
| - Age : int |
| - contact_No. : double |
| - E-mail : string |
| - Address : string |
| + Apply_for_verification() : string |
| + Fill_application() : string |
| + Provide_details() : string |
| + Get_acknowledgement() : string |

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192211622

1....*

| Office |
| --- |
| - Location : string |
| - contact_No. : double |
| - E-mail : string |
| - Branches : string |
| + Get_details() : string |
| + Provide_details() : string |
| + Get_acknowledgement() : string |
| + Provide_acknowledgement() : string |

| Central Computer |
| --- |
| - System_ID : int |
| - IP_Address : double |
| - Capacity : string |
| - Storage : string |
| + Get_details() : string |
| + Check_details() : string |
| + Confirm_passport() : string |
| + Provide_acknowledgement() : string |

# LAB ACTIVITY – 1

**K MOHAN SAI**
**192211622**

**ACTIVITY DIAGRAM**

K Mohan Sai
192211622

Apply for verification

Check availability

Select dates

Confirm ticket

Provide details

<<rejected>>

<<accepted>>

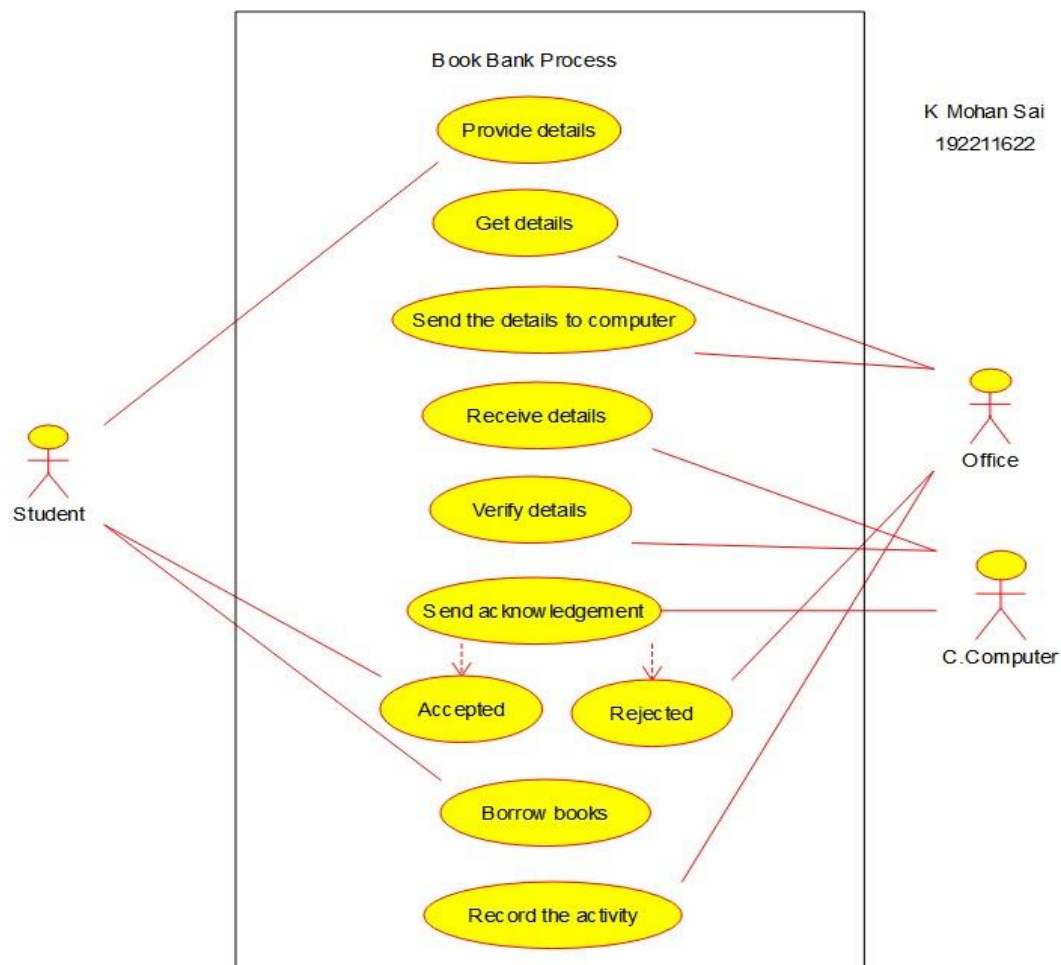Police verification | Formal verification

Passport received

# LAB ACTIVITY – 1

**K MOHAN SAI**
**192211622**

**2.** Develop a system using UML for implementing the Book Bank process.
It should verify the details of
the student by the central computer. The details regarding the student will be
provided to the central computer
through the administrator in the book bank and the computer will verify the
details of the student and provide
approval to the office. Then the books that are needed by the student will
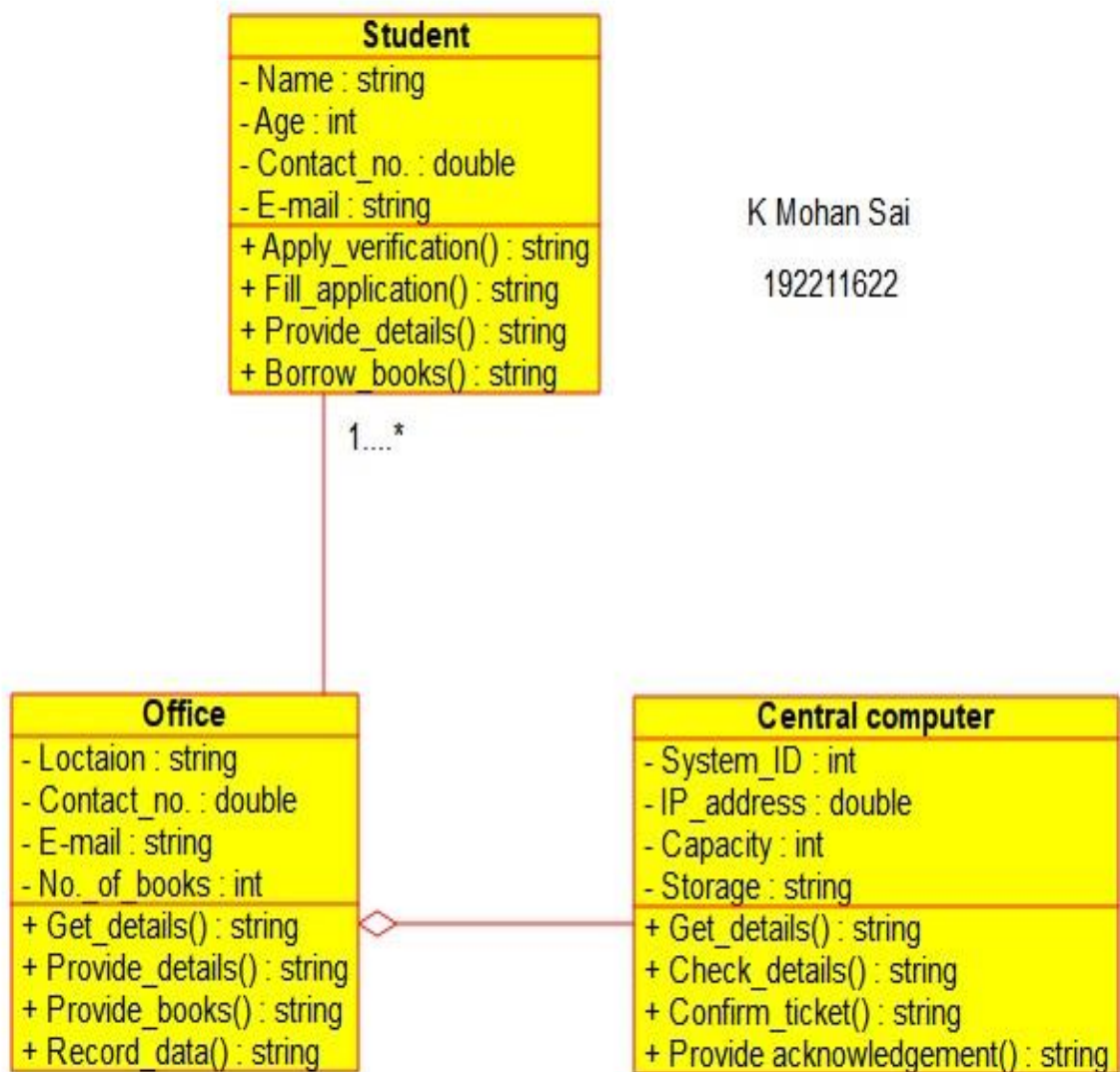issue from the office to
him.

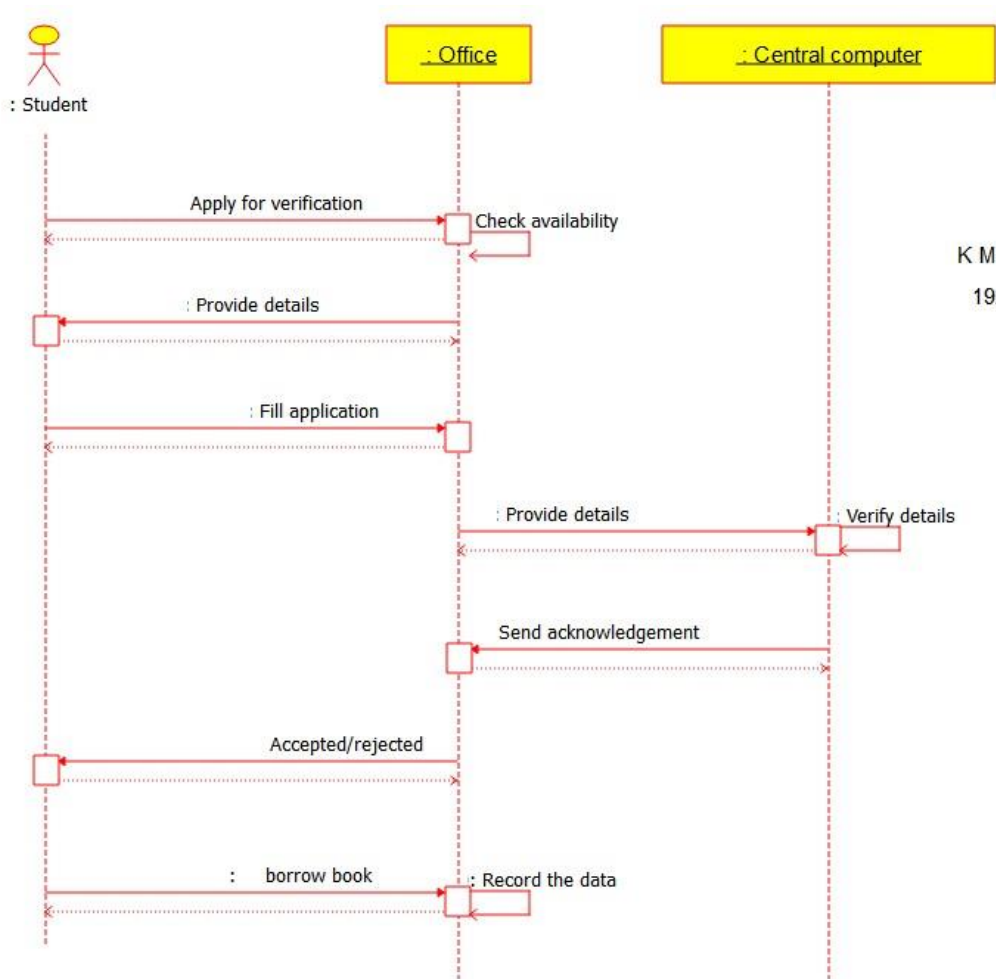**USECASE DIAGRAM**

# LAB ACTIVITY – 1

**K MOHAN SAI**
**192211622**

**CLASS DIAGRAM**

**Student**
- Name : string
- Age : int
- Contact_no. : double
- E-mail : string
+ Apply_verification() : string
+ Fill_application() : string
+ Provide_details() : string
+ Borrow_books() : string

K Mohan Sai

192211622

1....*

**Office**
- Loctaion : string
- Contact_no. : double
- E-mail : string
- No._of_books : int
+ Get_details() : string
+ Provide_details() : string
+ Provide_books() : string
+ Record_data() : string

**Central computer**
- System_ID : int
- IP_address : double
- Capacity : int
- Storage : string
+ Get_details() : string
+ Check_details() : string
+ Confirm_ticket() : string
+ Provide acknowledgement() : string

# LAB ACTIVITY – 1

**K MOHAN SAI**
**192211622**

## SEQUENCE DIAGRAM