

The diagram illustrates the use cases and relationships for the Indian Railways Booking System. The central system boundary is labeled "Indian Railways Booking".

Actors:

- Printer**: Represented by a stick figure icon.
- Passenger**: Represented by a stick figure icon.
- Database**: Represented by a stick figure icon.
- BookingManager**: Represented by a stick figure icon.
- SysAdmin**: Represented by a rectangle icon.

Use Cases:

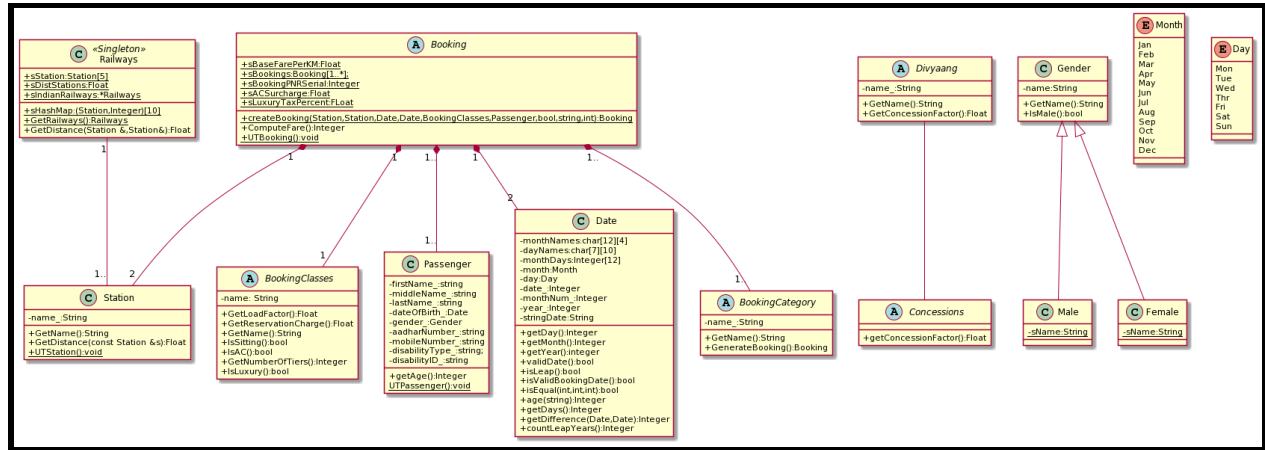
- Check Seat Availability
- Display Station Error
- Choose Booking Seat
- Make Payment
- Store Booking's Details
- Give Master Data
- Print Booking Details
- Choose Station
- Choose Booking Category
- Choose Date
- Choose Booking Class
- Calculate Payment
- Store Master Data
- Confirm Booking
- Verify Station
- Display Date Error
- Verify Date

Relationships:

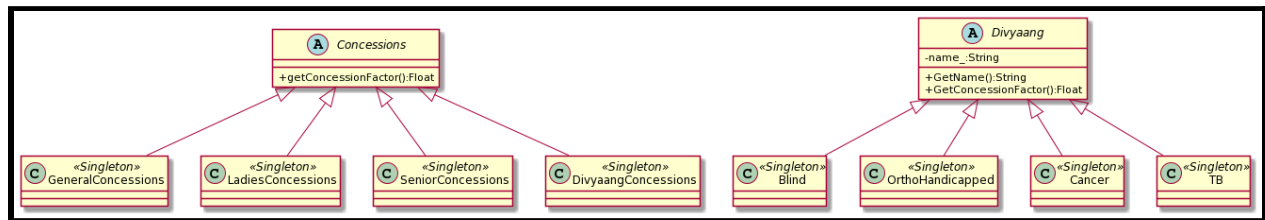
- Printer** is associated with **Check Seat Availability**.
- Passenger** is associated with **Check Seat Availability**, **Choose Booking Seat**, **Make Payment**, and **Store Booking's Details**.
- Database** is associated with **Store Booking's Details**, **Give Master Data**, and **Print Booking Details**.
- BookingManager** is associated with **Print Booking Details**.
- SysAdmin** is associated with **Choose Station**.
- Check Seat Availability** *extends* **Choose Station**.
- Display Station Error** *includes* **Choose Station**.
- Choose Booking Seat** *includes* **Choose Booking Category**.
- Choose Booking Seat** *includes* **Choose Date**.
- Choose Booking Seat** *includes* **Choose Booking Class**.
- Choose Station** *includes* **Verify Station**.
- Choose Date** *extends* **Display Date Error**.
- Choose Date** *includes* **Verify Date**.
- Make Payment** *includes* **Calculate Payment**.
- Store Booking's Details** *includes* **Calculate Payment**.
- Give Master Data** *includes* **Store Master Data**.
- Print Booking Details** *includes* **Confirm Booking**.

There are five parts of the class diagrams

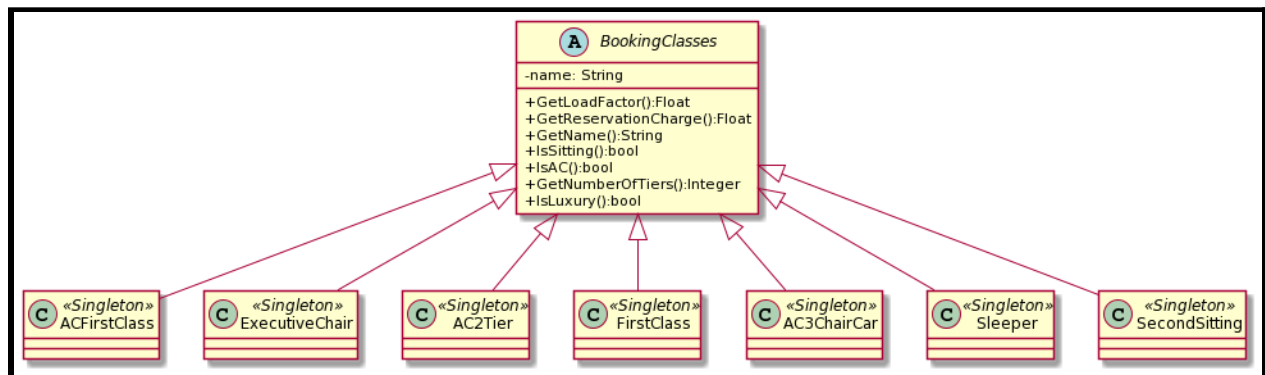
a)Main Part



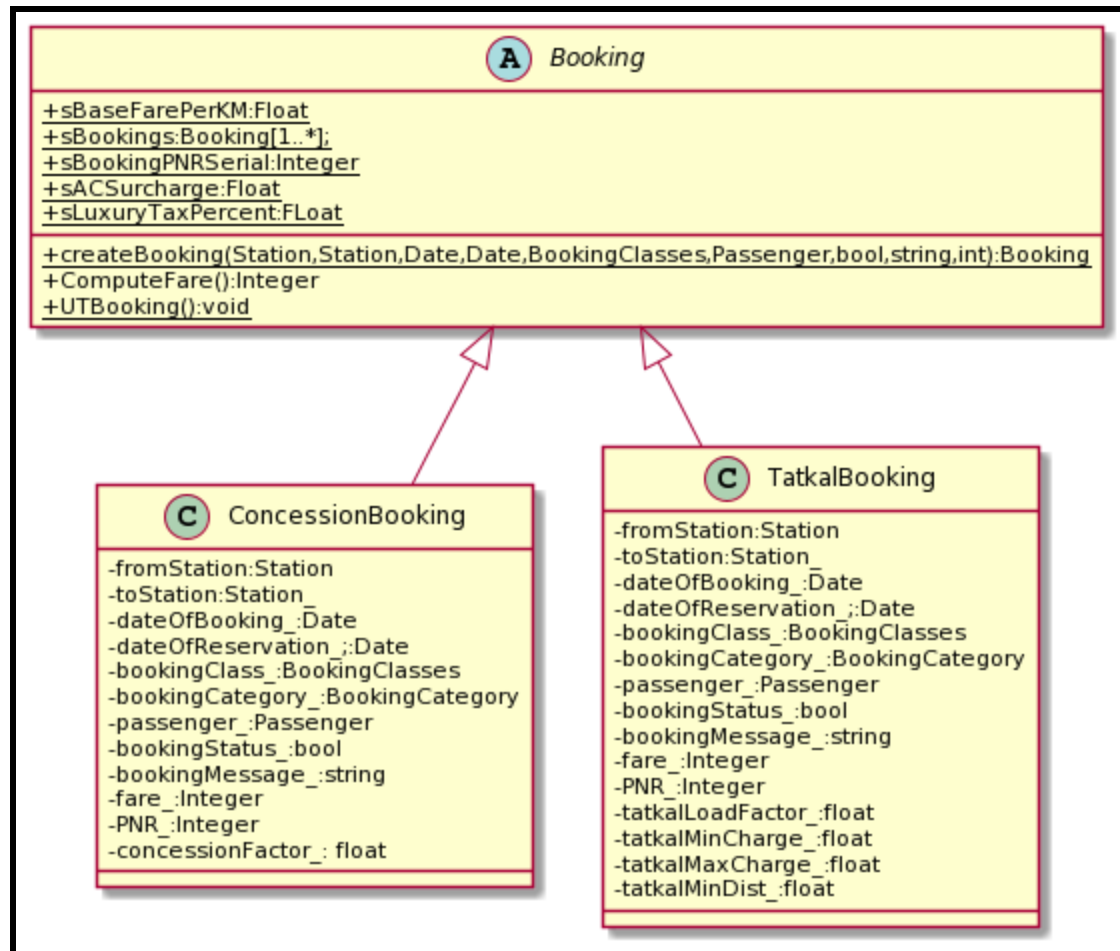
b)Polymorphic Hierarchy of Divyaang and Concession class



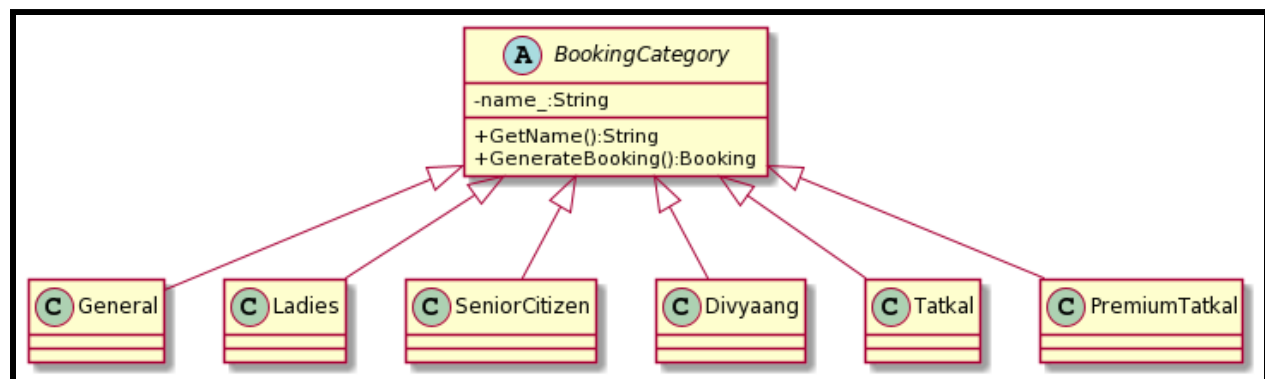
c)Polymorphic Hierarchy of BookingClasses



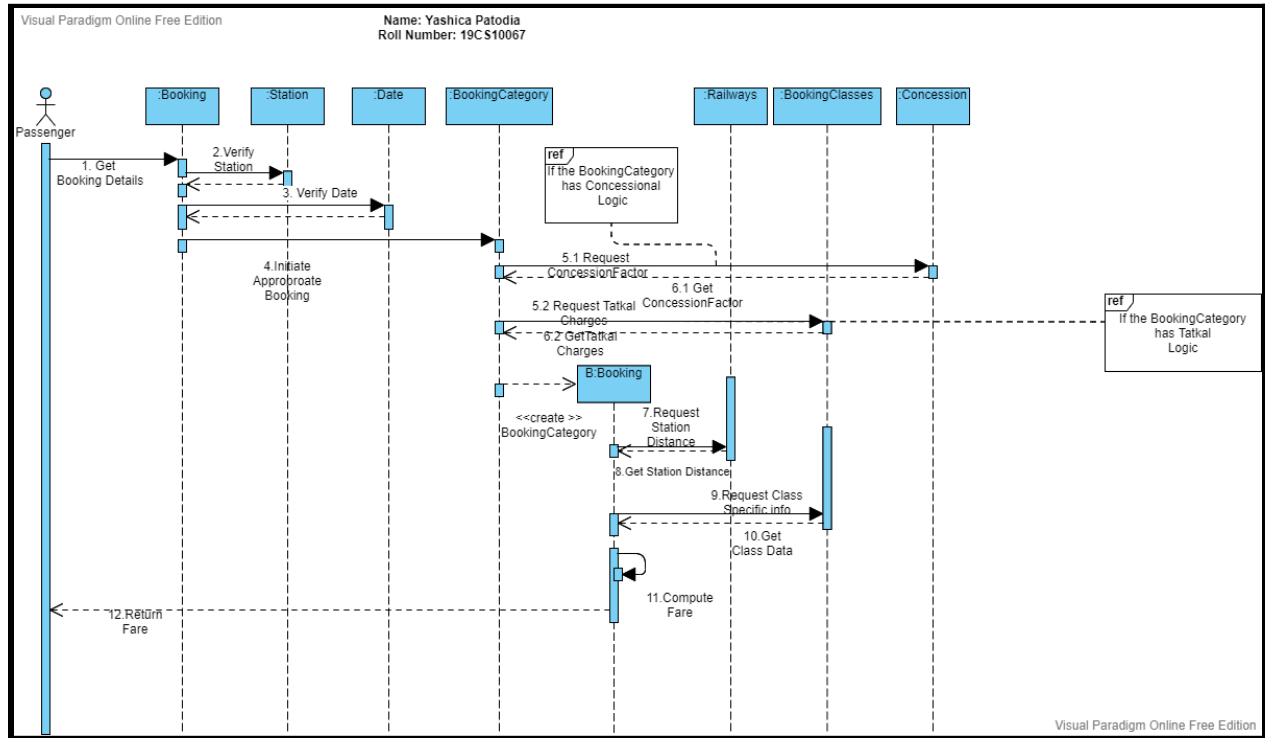
d)Polymorphic Hierarchy of Booking class



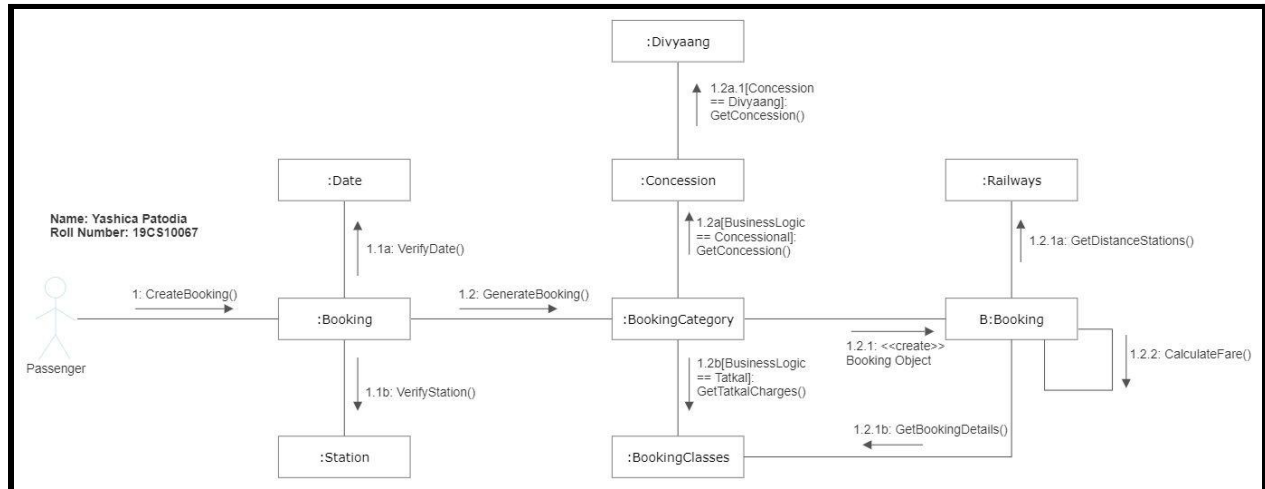
e)Polymorphic Hierarchy of BookingCategory class



3)Sequence Diagram

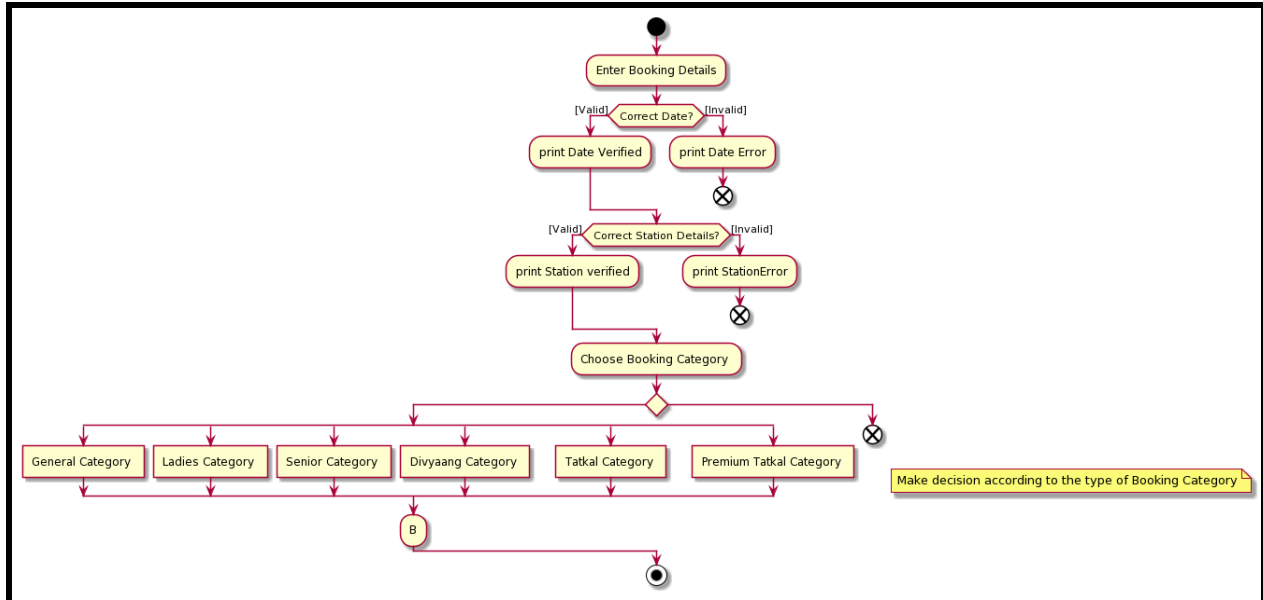


4)Communication Diagram

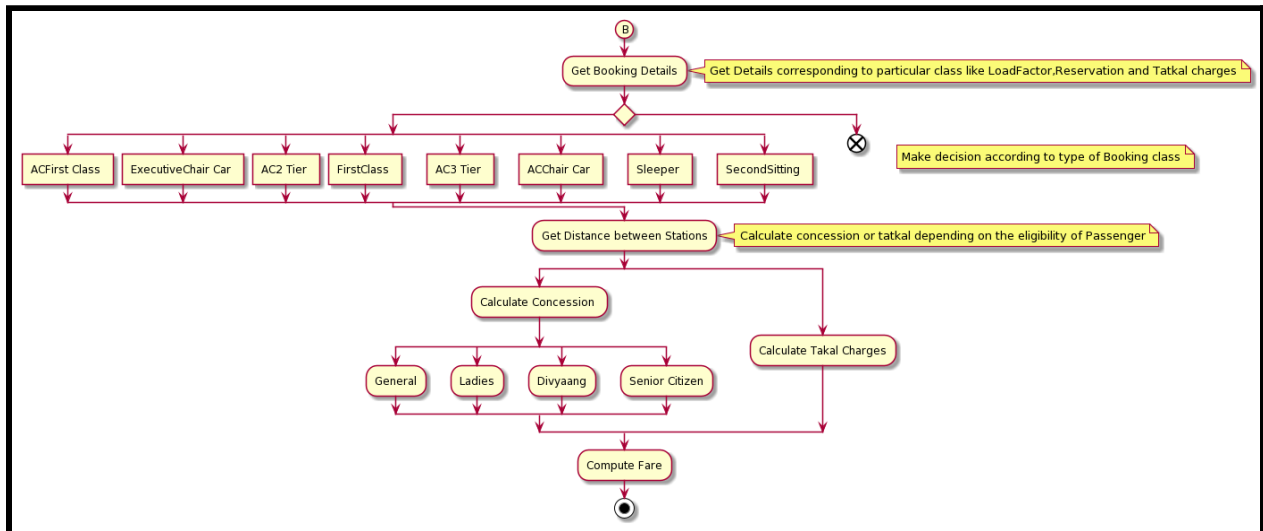


5)Activity Diagram

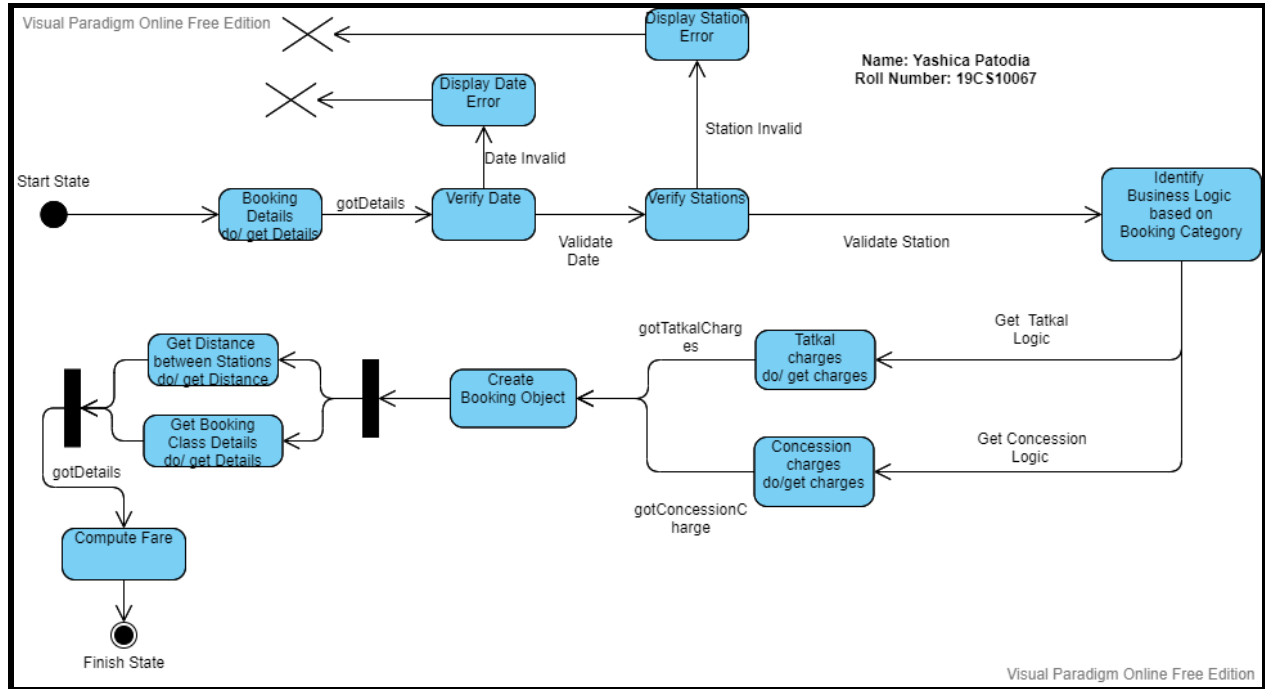
a)Part 1



b)Part 2



6)State Machine Diagram



****All the diagrams are also attached in case they appear blur**