**State Chart Diagram**

**Assignment-7**

Car Rental System

TY-25

|  |  |  |
| --- | --- | --- |
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*The document in this file is for UML State Chart Diagram Documentation Specifications, which conforms to the requirements of UML 2.0.*

*Items that are intended to stay in as part of your document are in* **bold***; blue italic text is used for explanatory information that should be removed when the template is used.*

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# **State Chart Diagram Overview**

## **Object State Description**

|  |  |
| --- | --- |
| **Object Name** | **States** |
| New User | 1. Register 2. login |
| User Action | 1. Search for suitable car 2. Check for availability 3. Choose car and location |
| Search Result | Check for availability of cars |
| Availability | Search for cars |
| Check-out | Confirm booking and deposit |

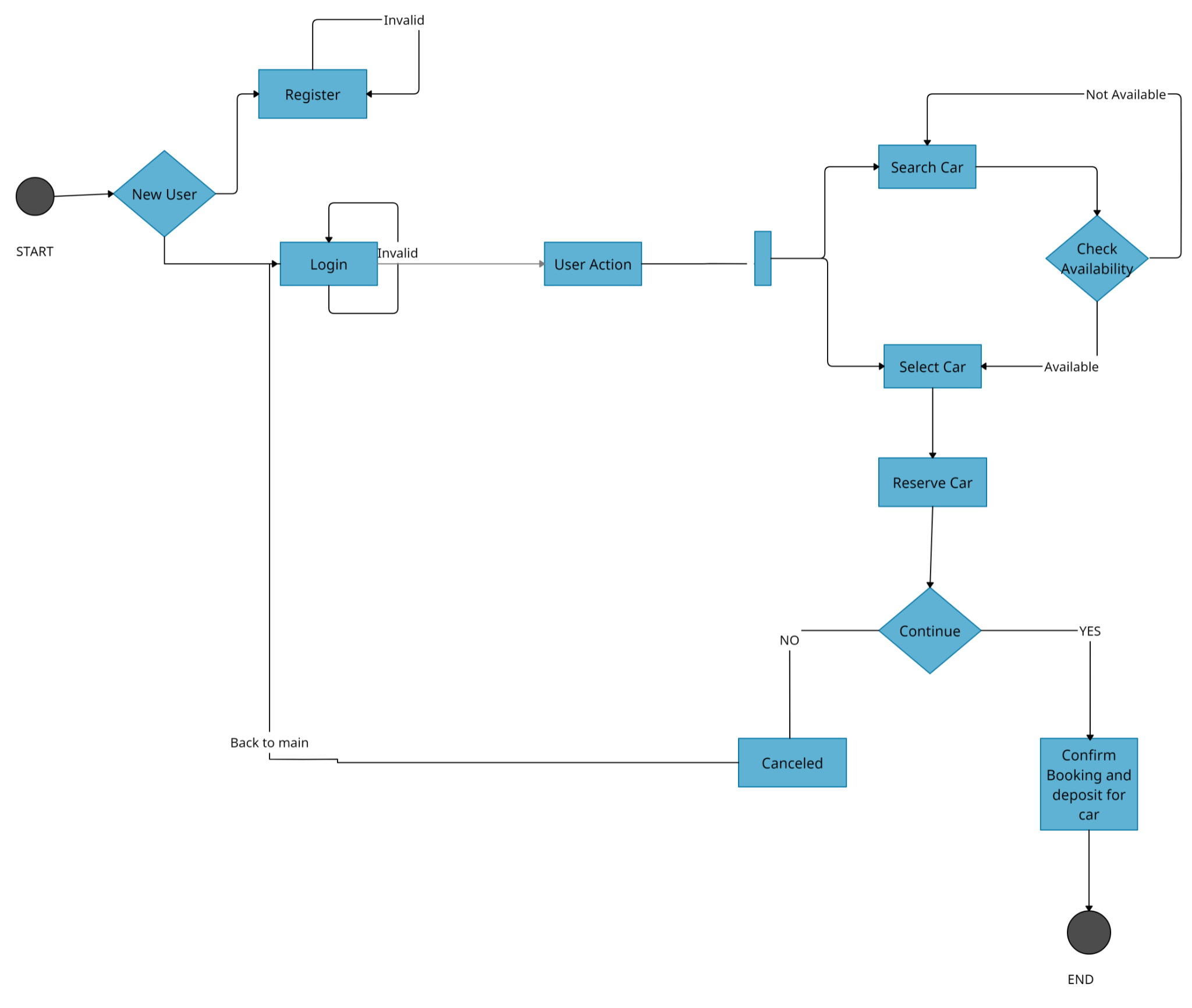
## **States Description**

|  |  |  |
| --- | --- | --- |
| **State Name** | **Type** | **Action Set** |
| Register | Submachine State | Only the users registered to our system will be able to access.So, firstly the user has to register for accessing the system. |
| Login | Composite State | If the user already registered then user can directly access the system.Otherwize user need to register before login |
| Search Cars | Composite State | After the user has registered himself or after the login process is done the user will be able to search for different cars . |
| Check Availability Status For selecting car | Submachine State | The users can able to see whether the searched car is available or not. |
| Confirm Booking and pay Deposit | Simple State | After selecting the car user has to confirm the booking by paying some amount of deposit. |

# **Specific Description**

|  |  |  |  |
| --- | --- | --- | --- |
| **Transition** | **Event** | **Guard condition** | **Transition Action** |
| Check Cars | User Action area matches | User Search | There are Different categories of cars the user has to search for and information is displayed. |
| Check for Availability | Car available or not | Availability should be true | Availability of car is checked |
| Booking and pay Deposit | Confirm the selected car | Confined car should match with selected car | If yes, then deposit has taken .If not available then search for another car |
| Successful/Unsuccessful | Availability of cars | Availability Searched | The transition report is submitted to client |

**State Chart Diagram :**

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