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| Project Diagram  On  **Real Estate Management System**  By  [www.programmer2programmer.net](http://www.programmer2programmer.net/) [www.readymadeproject.com](http://www.readymadeproject.com/) ajprofessionals@gmail.com |

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| INTRODUCTION |

Study of Existing System

The system consist of two modules

* Administrator and
* Customer

The system was supposed to provide the following facilities

* Searching for property
* Viewing property information
* Viewing seller information
* Booking property
* Good user interface

Limitations of Existing System

* Searching facility for property was poor
* Difficult to manage the property and owner information
* The system does not keep the proper records of customers
* The system interface was not user friendly
* Difficult to generate report
* Time consuming

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| PROPOSED SYSTEM |

Scope of Proposed System

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| Consist of three modules  Administrator  Agent  Customer  Provides property information online  Provides online property booking  Useful for property buyers  Useful for property managers |

# Objectives of Proposed System

Easy to operate.

Easy to search property.

Proper management of property.

It should be easy to update property information.

Easy to add/update seller/agent/customer information.

Reduces amount of work.

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| OPERATING ENVIRONMENT |

HARDWARE REQUIREMENTS

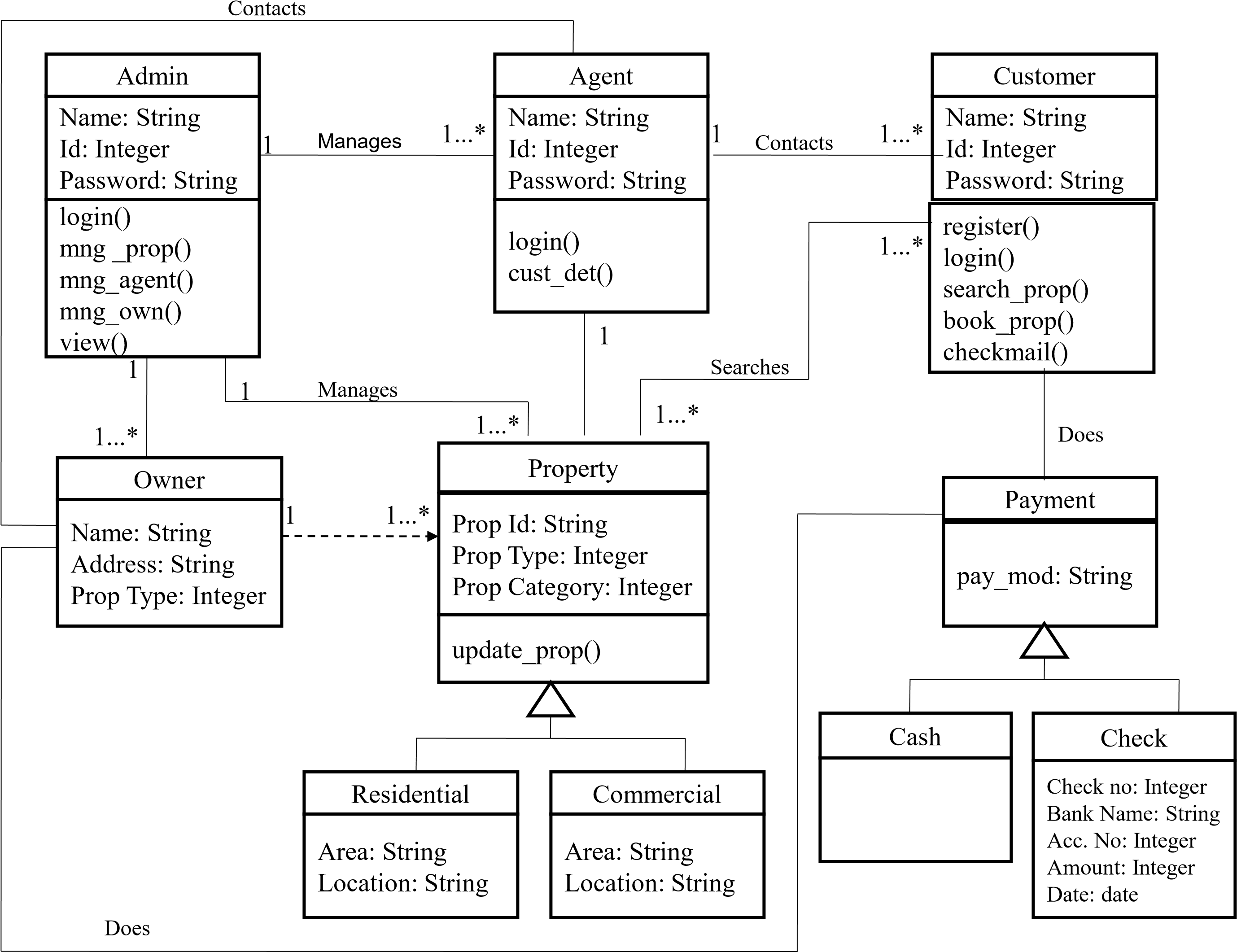
|  |  |  |
| --- | --- | --- |
| Processor | : | i7 |
| RAM | : | 4 GB or Higher |
| Hard Disk | : | 80 GB |
| Input Device | : | Keyboard, Mouse |
| Output Device | : | Monitor |

SOFTWARE REQUIREMENTS

|  |  |
| --- | --- |
| Operating System : | Windows 10 |
| Front End : | Java Server Pages (JSP) |
| Back End : | Servlets, JavaBeans and JDBC |
| Database : | My SQL 6.5 or Higher |
| Web Server : | Apache Tomcat 6.0 |
| Other Technology : | Java Script, HTML and CSS |

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| DIAGRAMS |

CLASS DIAGRAM



Module Hierarchy Diagram:

Real Estate Management System

Customer

Administrator

Agent

View Report

Manage property

details

Manage owner

details

Manage Agent

Property

View customer

details

Login Module

Login Module

Property Search

Module

Login Module

View customer

details

Contact

Customer

Registration

Module

Book Property

Contact Owner

Registration

Module

UML Diagram For System

Search Property

Contact Agent

Manage Agent

property

Book Property

Contact Customer

Manage Owner

Customer

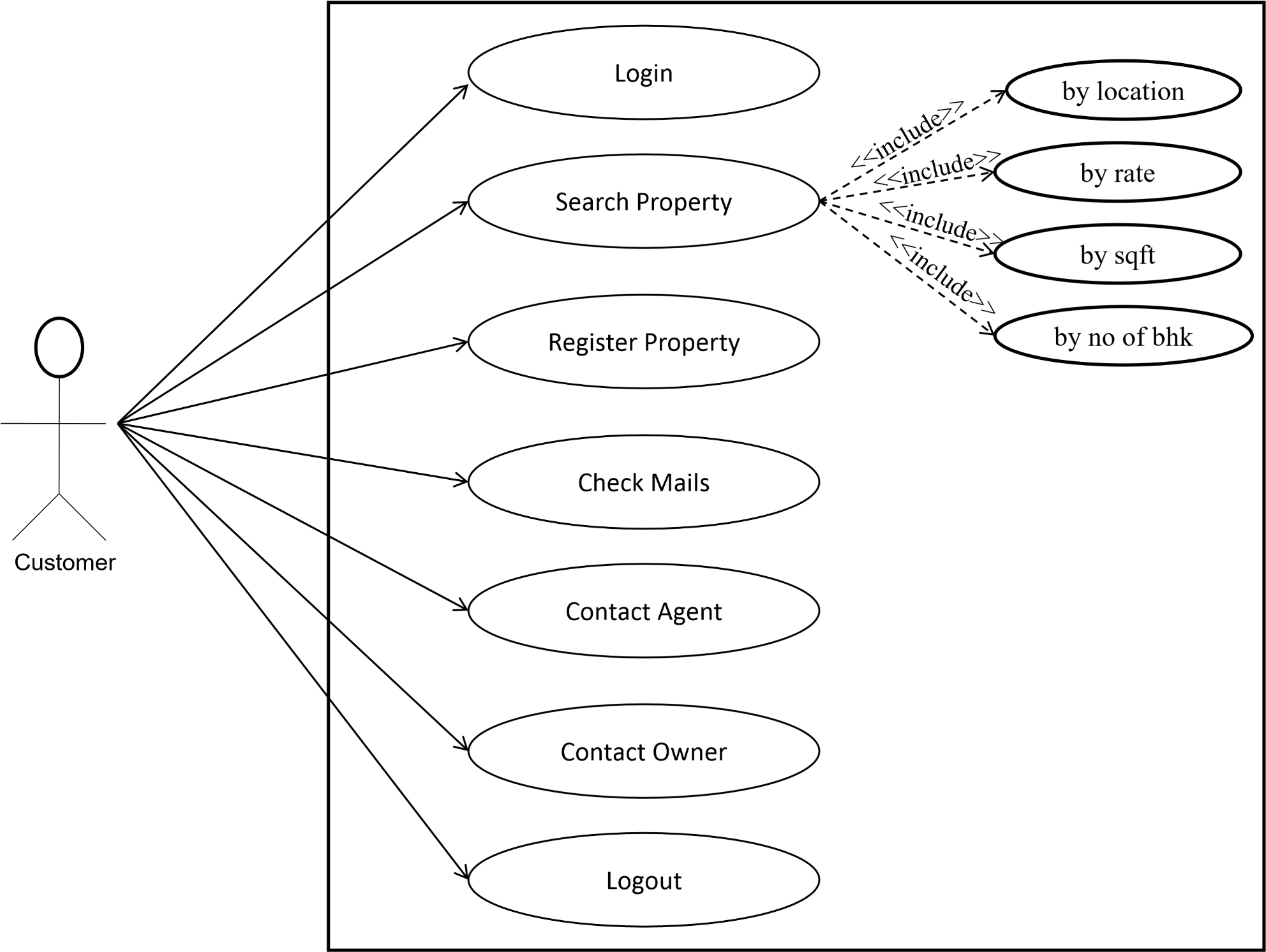
Agent

Admin

Manage Property

Reports

Use Case Diagram For Customer



Use Case Diagram For Agent

Agent

Send Mails

Login

Check Customer

Information

Logout

Check Mails

Contact Owner

Contact Customer

Send Mail

Use Case Diagram For Administrator

Login

Manages Property

Information

Send Mail

Manages Owner

Information

Logout

Check Mails

View Reports

View Registered

Property

Manages Agent

Property

Administrator

add

update

delete

Activity Diagram For Customer

valid

no

yes

Search Property

Register

By Category

By Location

By Rate

valid

Logout

Login

Check Mails

invalid

Book Property

Verify

Book

Property

Registered

yes

no

Activity Diagram For Agent

invalid

valid

Verify

Login

Check Customer Details

Logout

Send Mail

Check Mails

Activity Diagram For Administrator

Login

Manage property

View Customer

Details

Send Mail

verify

View Registered

property

Manage Agent

Manage Owner

Information

View Reports

By Category

By Rate

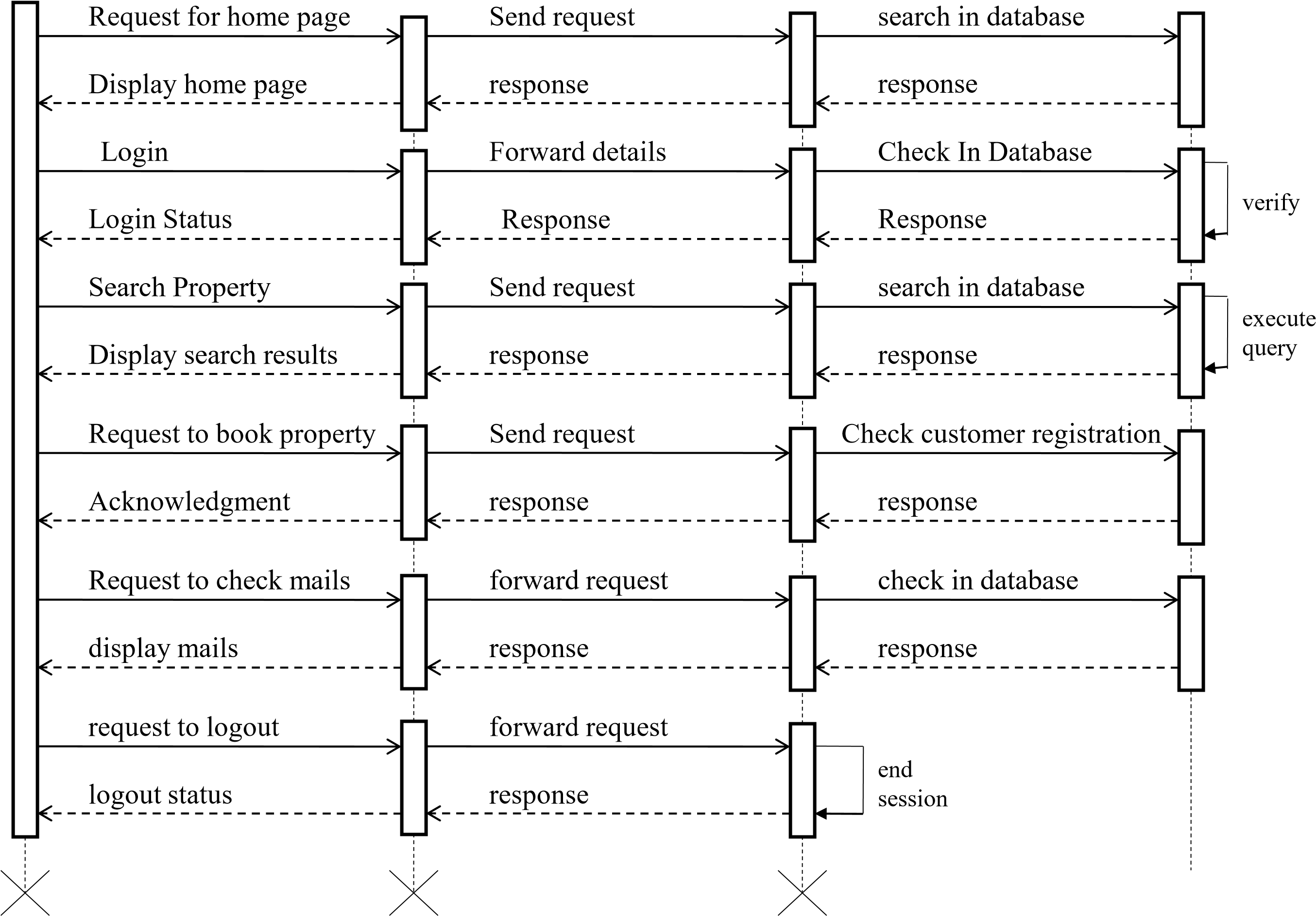
invalid

By Location

Logout

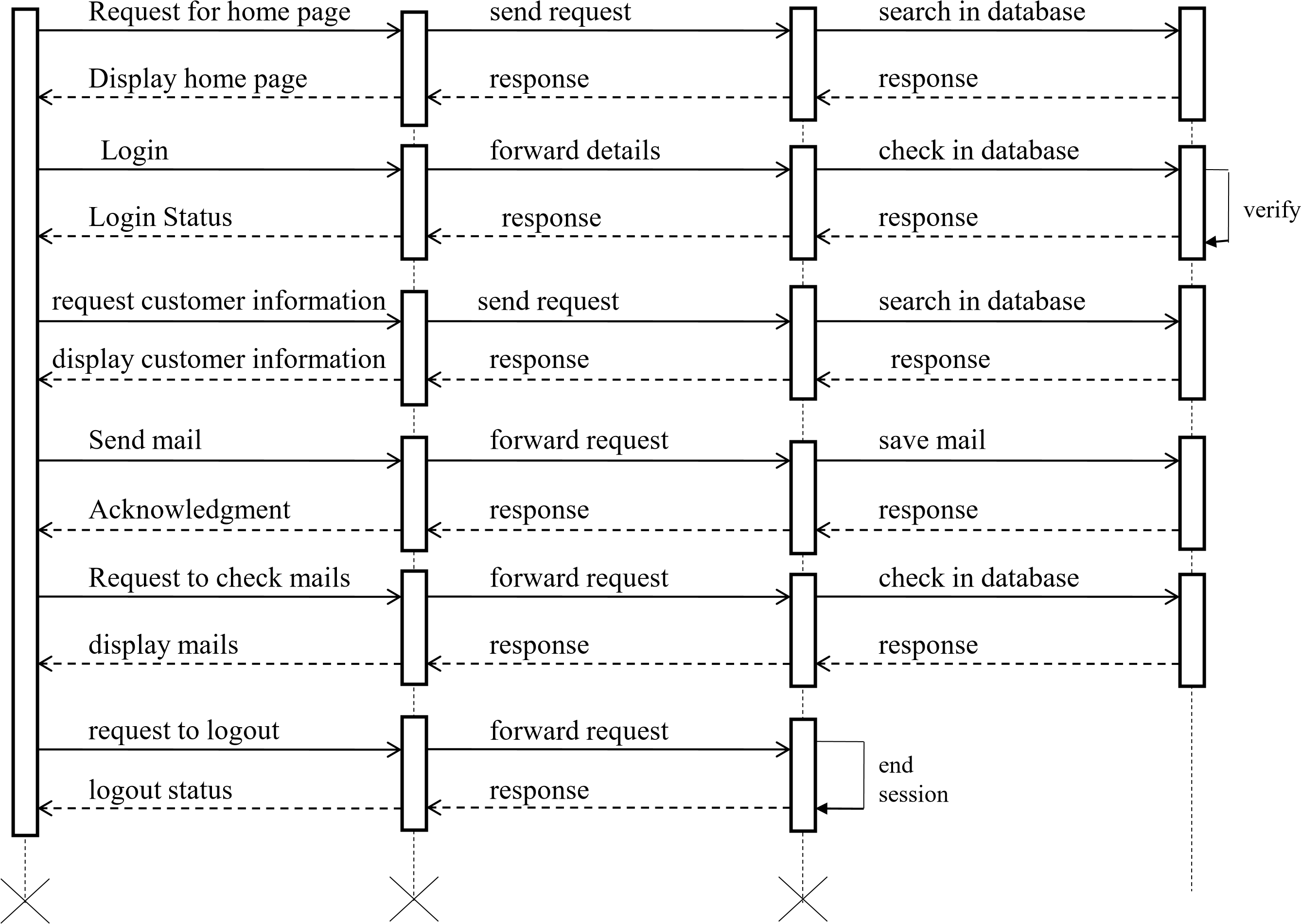
Sequence Diagram For Customer

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Customer |  | Web Browser |  | Web Server |  | Database |



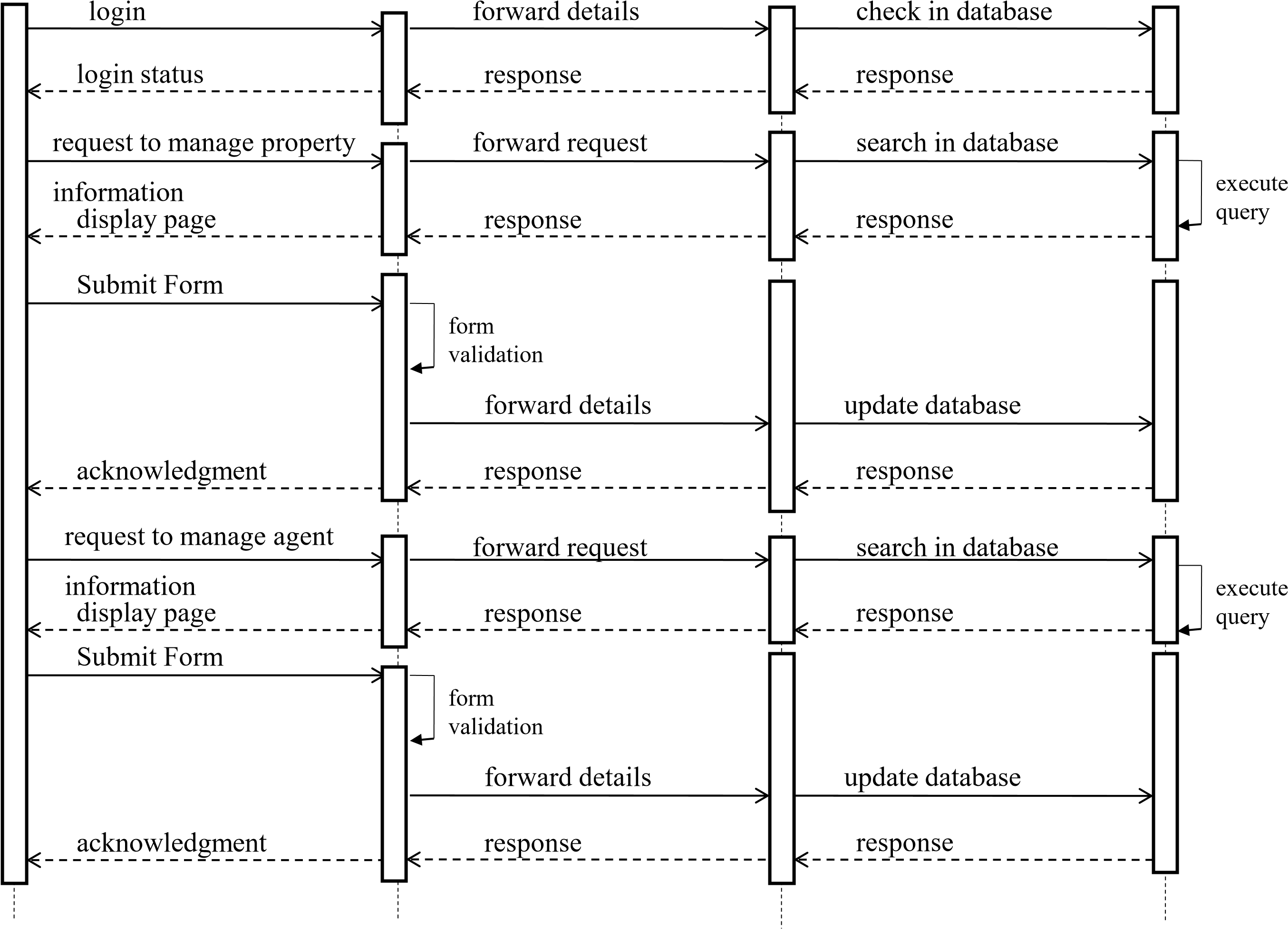
Sequence Diagram For Agent

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Agent |  | Web Browser |  | Web Server |  | Database |



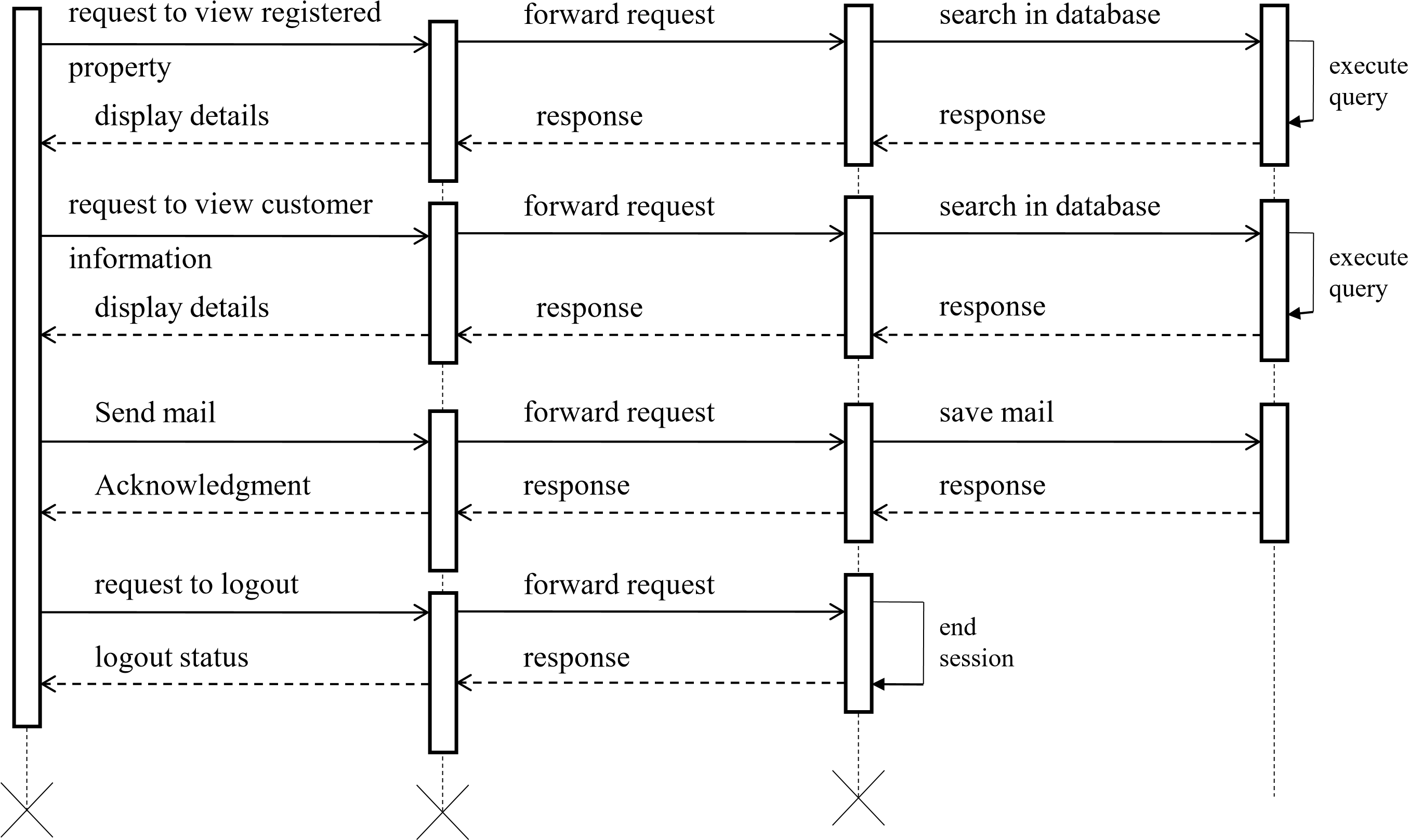
Sequence Diagram For Administrator

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Admin |  | Web Browser |  | Web Server |  | Database |



Sequence Diagram For Administrator(continue)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Admin |  | Web Browser |  | Web Server |  | Database |



Component Diagram:

Client

Web Browser

Database

Application

Program

Web Server

Request to

Request to

Request to

Request to

Deployment Diagram:

User

Interface

Application

Interface

Database

Communicates

Application Server

User PC

Database Server

|  |
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| TABLE DESIGN |

Table for Login

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Width** | **Constraints** |
| logintype\_id | Integer | 2 | Primary Key |
| logintype | Varchar | 20 | Not Null |

Table For State

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Width** | **Constraints** |
| state\_id | Integer | 4 | Primary Key |
| state\_name | Varchar | 45 | Not Null |

Table For City

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Width** | **Constraints** |
| city\_id | Integer | 4 | Primary Key |
| city\_name | Varchar | 45 | Not Null |
| state\_id | Integer | 4 | Foreign key |

Table For Area

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Width** | **Constraints** |
| area\_id | Integer | 4 | Primary Key |
| area\_name | Varchar | 45 | Not Null |
| city\_id | Integer | 4 | Foreign Key |
| state\_id | Integer | 4 | Foreign Key |

Table For Property Category

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Width** | **Constraints** |
| prcategory\_id | Integer | 4 | Primary Key |
| prcategory\_name | Varchar | 45 | Not Null |

Table For Property Type

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Width** | **Constraints** |
| prtype\_id | Integer | 4 | Primary Key |
| prtype\_name | Varchar | 45 | Not Null |
| prcategory\_id | Integer | 4 | Foreign key |

Table for Property Details:

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Width** | **Constraints** |
| pr\_id | Integer | 10 | Primary Key |
| owner\_id | Integer | 4 | Foreign Key |
| agent\_id | Integer | 4 | Foreign Key |
| cust\_id | Integer | 4 | Foreign Key |
| pr\_date | Datetime | -- | Not Null |
| state\_id | Integer | 45 | Foreign Key |
| city\_id | Integer | 45 | Foreign Key |
| area\_id | Integer | 45 | Foreign Key |
| prcategory\_id | Integer | 2 | Foreign Key |
| prtype\_id | Integer | 45 | Foreign Key |
| pr\_area | Integer | 5 | Not Null |
| rate\_per\_sqft | Integer | 4 | Not Null |
| pr\_rate | Integer | 10 | Not Null |
| no\_bhk | Integer | 4 | May null |
| status | Boolean | -- | Not Null |

Table For Owner Details

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Width** | **Constraints** |
| owner\_id | Integer | 4 | Primary Key |
| owner\_pr\_id | Integer | 45 | Foreign Key |
| agent\_id | Integer | 4 | Foreign Key |
| f\_name | Varchar | 45 | Not Null |
| l\_name | Varchar | 45 | Not Null |
| gender | Boolean | -- | Not Null |
| address | Varchar | 45 | Not Null |
| mobile\_no | Integer | 10 | Not Null |
| email\_id | Integer | 4 | Not Null |
| pay\_id | Integer | 4 | Not Null |

Table For Owner-Property Details:

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Width** | **Constraints** |
| owner\_pr\_id | Integer | 4 | Primary Key |
| owner\_id | Integer | 4 | Foreign Key |
| pr\_id | Integer | 4 | Foreign Key |

Table For Customer Registration:

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Width** | **Constraints** |
| cust\_id | Integer | 4 | Primary Key |
| logintype\_id | Integer | 2 | Foreign Key |
| agent\_id | Integer | 4 | Foreign Key |
| cust\_pr\_id | Integer | 4 | Foreign Key |
| cr\_date | Datetime | -- | Not Null |
| f\_name | Varchar | 45 | Not Null |
| l\_name | Varchar | 45 | Not Null |
| sex | Boolean | -- | Not Null |
| address | Varchar | 45 | Not Null |
| mobile\_no | Integer | 10 | Not Null |
| date\_of\_birth | Datetime | -- | Not Null |
| email\_id | Varchar | 45 | Not Null |
| user\_name | Varchar | 20 | Not Null |
| password | Varchar | 20 | Not Null |
| con\_password | Varchar | 20 | Not Null |
| cust\_email\_id | Varchar | 4 | Foreign Key |

Table For Customer-Property Details:

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Width** | **Constraints** |
| cust\_pr\_id | Integer | 4 | Primary Key |
| cust\_id | Integer | 4 | Foreign Key |
| pr\_id | Integer | 4 | Foreign Key |

Table For Agent Registration:

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Width** | **Constraints** |
| agent\_id | Integer | 4 | Primary Key |
| logintype\_id | Integer | 2 | Foreign Key |
| agent\_owner\_id | Integer | 4 | Foreign key |
| agent\_cust\_id | Integer | 4 | Foreign Key |
| a\_date | Datetime | -- | Not Null |
| f\_name | Varchar | 45 | Not Null |
| l\_name | Varchar | 45 | Not Null |
| sex | Boolean | -- | Not Null |
| address | Varchar | 45 | Not Null |
| mobile\_no | Integer | 10 | Not Null |
| email\_id | Varchar | 45 | Not Null |
| user\_name | Varchar | 20 | Not Null |
| password | Varchar | 20 | Not Null |
| con\_password | Varchar | 20 | Not Null |
| pay\_id | Integer | 4 | Not Null |

Table For Agent-Owner Details:

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Width** | **Constraints** |
| agent\_owner\_id | Integer | 4 | Primary Key |
| agent\_id | Integer | 4 | Foreign Key |
| owner\_id | Integer | 4 | Foreign Key |

Table For Agent-Customer Details:

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Width** | **Constraints** |
| agent\_owner\_id | Integer | 4 | Primary Key |
| agent\_id | Integer | 4 | Foreign Key |
| cust\_id | Integer | 4 | Foreign Key |

Table For Customer Email Details

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Width** | **Constraints** |
| cust\_email\_id | Integer | 4 | Primary Key |
| cust\_id | Integer | 4 | Foreign Key |
| e\_date | Datetime | -- | Not Null |
| tomail | Varchar | 45 | Not Null |
| subject | Varchar | 45 | Not Null |
| message | Varchar | 100 | Not Null |

Table For Payment Details:

|  |  |  |  |
| --- | --- | --- | --- |
| **Field Name** | **Data Type** | **Width** | **Constraints** |
| pay\_id | Integer | 5 | Primary Key |
| owner\_id | Integer | 4 | Foreign Key |
| agent\_id | Integer | 4 | Foreign Key |
| pay\_mod | Boolean | -- | Not Null |
| amount | Integer | 6 | Not Null |
| check\_no | Integer | 20 | Not Null |
| p\_date | Datetime | -- | Not Null |