

# SRS Document

## List of Abbreviations

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- SRS → Software requirements specification.
- SSS → Snap state system. (The name of the system).
- GDPR → General data protection regulations.
- Users → Indicates to all users involved in the system (guest, member, and admin)
- ERD → Entity Relationship Diagram
- DFD → Data flow diagram

## Purpose

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The aim of this document is to define the requirements such as functional, non-functional, user and system requirements for the development of **SSS**. SRS document is very important step in the project to clearly define the functionalities and requirements and the Snap state system needs to cover. SRS documents are very useful for stakeholders to check the system's requirements.

The purpose and aim of developing **SSS** is to facilitate the communication between users when they want to buy or sell properties by creating chatting rooms, enable the users to easily manage their properties by adding, modifying and delete their properties and discover properties.

**SSS** will contain several stakeholders such as:

- **property owners**: user who wants to sell their properties by adding, modifying, or deleting their properties in the system.
- **property seekers**: user who wants to buy properties from property owners.
- **System administrator**: the user who manages the entire system such as: modifying users, manage subscription, etc.
- **Developers**: responsible for developing and building the system.
- **Designers**: responsible for designing the system architecture and user interfaces.
- **Quality assurance**: responsible for testing the functionality of the system.
- **Project manager**: responsible for managing the project and ensuring the completion of tasks given to developers, designers, and quality assurance.
- **Investors**: who want to invest in this project.

# Scope

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<b>Project Title</b>	Snap state system (SSS)
<b>Project Leader</b>	Hamza Muhsen

## Details of Project

<b>Project Aim and Purpose</b>
<i>The purpose of <b>Snap estate system</b> is to facilitate and manage communication and interaction between users when they want to buy or sell properties, enable the users to easily manage their properties by adding, modifying or delete their properties and discover properties.</i>
<b>Business Objectives</b>
<ol style="list-style-type: none"><li>1- Build an easy to use and user-friendly website to enhance user experience and attract the user's (property owners, seekers) attention to register and use the system.</li><li>2- Promote Snap state system as the market's leading real estate platform for interaction and communication.</li><li>3- Elevate Snap state system as a trustworthy and reliable brand by implementing many marketing strategies, and ads.</li><li>4- Build a scalable system that can handle and control an increasing number of property postings and users to get more profit and revenue.</li><li>5- Get revenue through subscription plans.</li><li>6- Increase the reputation in the market by implementing a secure, and user-friendly interface for real-time chatting between users.</li><li>7- Add a strong security measure to save and protect user's data</li></ol>
<b>In Scope</b>
<ul style="list-style-type: none"><li>• User's registration and login</li><li>• User friendly interface to enable users to view all the properties in the system alongside detailed information about each property.</li><li>• Simple search functionality to search and discover properties in the system.</li><li>• Easy-to-use interface for subscription plans alongside secure payment methods.</li><li>• User friendly and secure interface for communication page to enable users to communicate with each other.</li><li>• Scalable, simple, easy-to-use, and secure interfaces for property management to enable users to add, modify, or delete properties.</li><li>• Simple steps to enable users to manage their subscription and mark their properties as special. (if subscribed).</li><li>• Simple, easy-to-use, and secure interface for modifying user's account.</li><li>• User friendly interface for showing all users. (for admin privilege)</li><li>• Simple steps to enable admin to provide reports. (for admin privilege)</li><li>• Secure and simple steps to enable admin to delete user's account.</li></ul>

<b>Out of Scope</b>
<ul style="list-style-type: none"> <li>• Snap state acts as a facilitator of communication and property management. We do not participate in real estate deals and cannot ensure the truth of property data.</li> <li>• International real estate deals. The snap state system is focused only on Jordan and will not be offered to other countries.</li> <li>• Cryptocurrency payment methods.</li> </ul>
<b>Deliverables</b>
<ul style="list-style-type: none"> <li>• <i>Wireframes</i></li> <li>• <i>Documentation such as project proposal and SRS document.</i></li> <li>• <i>System specification document</i></li> </ul>

## Requirements

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### Functional Requirements

- The system shall enable users to login or register to the system.
- The system shall offer secure users' authentication (email and password).
- Passwords must meet stringent security requirements.
- The system shall provide user friendly interface to enable users to view all the properties in the system alongside detailed information about each property.
- The system shall provide simple search functionality to search and discover properties in the system.
- The system shall provide intuitive and easy-to-use interfaces to easily enable users to add, modify, or delete their properties.
- The system shall provide user friendly interface for showing the user's details and their properties details. (Profile page)
- The system shall give the ability to users to modify and customize their profile.
- The system shall identify clear subscription plans by defining the price and benefits for each plan.
- The system shall enable users to choose the best subscription plan for them and subscribe by using one of the payment methods.
- The system shall offer multiple payment methods to enable users to subscribe.
- The system shall give the users the ability to manage their subscription and mark their properties as special. (if subscribed).
- The system shall support and offer real time chatting with push notifications for new messages.
- The system shall enable users to safely start, respond to, and see messages.

- The system shall provide user-friendly interfaces for showing all users and properties in the system.
- The system shall enable the admin to show all users and properties registered and subscribed to the system.
- The system shall enable the admin to manage all user's properties and profiles.
- The system shall give the ability to admin to provide reports. (for admin privilege) by following simple steps.
- The system shall give the ability to admin to delete user's account.

### **Non-functional requirements**

- The system shall be secure and follow **GDPR** for user protection.
- The system shall encrypt all the data and information related to the user's transactions, deals, etc.
- The system shall provide secure communication and payment methods.
- The system interfaces shall be user-friendly in order to provide a supportive user experience.
- The system shall have the ability for quick responses and the response time for important functions must be less than two seconds.
- The system shall be scalable and handle a lot of data about users, properties, transactions, etc.
- The system shall be able to handle a lot of users' traffic and not crash when there's large traffic on the system.
- The system shall be online all the time (24 hours a week) to help users when they access the system.
- The system shall do backups frequently to avoid any missed data and recover the data when anything happens to the data.
- The system shall be responsive and operate with all the screen sizes, browsers, and operating systems.
- The system shall be flexible by easily make basic modification on the system if necessary.

### **User Requirements**

- Users shall be able to register and login securely.

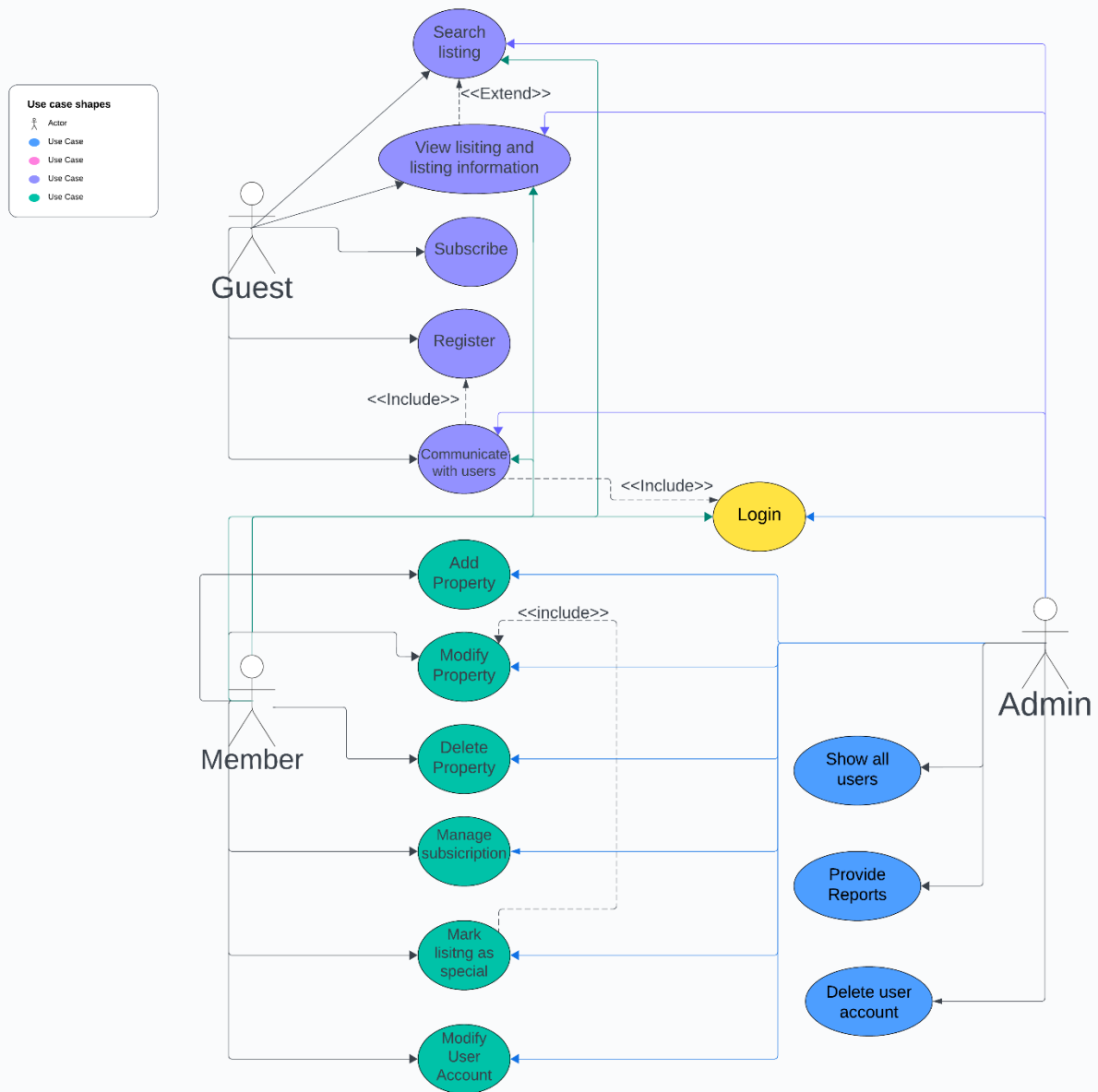
- Users shall be able to easily search and show all properties with their description.
- Guests shall be able to secure and easily subscribe to the system.
- Users shall have the ability to communicate with each other easily with secure connection.
- Users shall have the ability to start conversations, see responses.
- Members and admin shall have the ability to add, modify, or delete properties with effortless.
- Members and admin shall easily have the ability to modify the member's subscription.
- Members and admin shall have the ability to mark user's properties as special in the system.
- Members shall have the ability to modify their account information easily.
- Admin shall have the ability to show all the users registered in the system.
- Admin shall have the ability to provide reports easily.
- Admin shall have the ability to manage users by modifying or deleting user's accounts if necessary.

## **System Requirements**

- The system shall enable users to login or register to the system.
- The system shall offer secure users' authentication (email and password).
- The system must accept passwords that meet stringent security requirements.
- The system shall provide user friendly interface to enable users to view all the properties in the system alongside detailed information about each property.
- The system shall provide simple search functionality to search and discover properties in the system.
- The system shall provide intuitive and easy-to-use interfaces to easily enable users to add, modify, or delete their properties.
- The system shall provide user friendly interface for showing the user's details and their properties details. (Profile page)
- The system shall give the ability to users to modify and customize their profile.
- The system shall identify clear subscription plans by defining the price and benefits for each plan.
- The system shall enable users to choose the best subscription plan for them and subscribe by using one of the payment methods.
- The system shall offer multiple payment methods to enable users to subscribe.
- The system shall give the users the ability to manage their subscription and mark their properties as special. (if subscribed).
- The system shall support and offer real time chatting with push notifications for new messages.
- The system shall enable users to safely start, respond to, and see messages.

- The system shall provide user-friendly interfaces for showing all users and properties in the system.
- The system shall enable the admin to show all users and properties registered and subscribed to the system.
- The system shall enable the admin to manage all user's properties and profiles.
- The system shall give the ability to admin to provide reports. (for admin privilege) by following simple steps.
- The system shall give the ability to admin to delete user's account.

# Use Case diagram



## Use Case Description

Name	Description	Actor	Pre-condition	Post-condition	Main path	Alternative path	Exception Path	Scenario
Register	The steps and process of guest to create a new account on the system.	Guest	Guest is not registered in the system.	Guest is registered in the system and a new account created in the system	<p>Guest chooses Register option.</p> <p>Guests fill out the register form.</p> <p>System verifies the information filled.</p> <p>Guest is registered in the system.</p>	--	<p>Invalid input or information filled.</p> <p>Retry by using strong password.</p>	Guest register in the system by filling the registration form with his information.
Search listing	The steps and process of users to search for specific property	Guest, Member, Admin	User in home page, and user in search listing is not necessarily to be registered or login to search.	User displayed with a list of properties that fits the search requirements	<p>Users see the search bar in the home screen.</p> <p>User provides search requirements. (such as name, location, etc).</p> <p>System verifies the search information.</p> <p>The system displays a list of properties that fits the search requirements.</p>	<p>Users select the search icon on the top of every page and provide search requirements. (such as name, location, etc).</p> <p>System verifies and displays a list of properties that fits the search requirements.</p>	<p>There are no listings that fit the search info.</p> <p>System error, please try again.</p>	Users search for properties by providing search requirements.



View listing with information	The steps and process of users to view properties with information	Guest, Member, Admin	User in home page, and user in view listing is not necessary to be registered or login to search.	The user sees all properties in the system and receives a lot of details about the chosen property.	<p>The user goes to the property page.</p> <p>Show all the properties in the system.</p> <p>Select any property.</p> <p>System displays information about the selected property.</p> <p>Show details about the selected property.</p>	Users may search for specific property.	System error, please try again.	Users view all properties with their information.
Subscribe	The steps and process of guests to subscribe in the system and to be member.	Guest	Guest is not subscribed in the system.	Guests are subscribed to the system and become a member.	<p>The guest must register in the system.</p> <p>The system shows all subscription plans with their details.</p> <p>The guest selects the subscription plan he wants.</p> <p>Guest fills the subscription form.</p> <p>System checks the information filled.</p> <p>Guests are subscribed in the system</p>	--	<p>Wrong information filled in the subscription form.</p> <p>System error, please try again.</p>	Guest subscribes in the system to be a member.
	The steps	Guest, Member	Guest is registered	Users begin communication	The users must select any	The user searches	System error,	User communicates With other users.

Communicate	and process of users to communicate with other users in the system.	er, Admin	d, and member and admin are login to the system.	n, and communications have been sent and received.	property they want from the property page.  The system retrieves details about the property selected.  The user presses communicate option.  The communication is initiated, and the user can send and receive messages.	for specific property.  The system retrieves details about the property selected.  The user presses “communicate” option.  The communication is initiated, and the user can send and receive messages.	please try again.  Communication field.  User is not registered or log in to the system	
Add Property	The steps and process of members and admins to add new property in the system.	Member, Admin	member and admin are login to the system.	Members and admins created a new property. A new property added to the system.	Member and admin select the “Add property” option.  Member or admin fill in the add property form.  System checks the information.  The property was added to the system and to the profile page of member or admin.	--	Invalid information in the add property form.	Member and admin adds new property in the system.
Modify Property	The steps and process	Member, Admin	member and admin are login	Members and admins modified an existing	From profile page of member and admin.	For admin: From homepage and all	Invalid information in the modified	Member and admin Modifies existing Property in the system

	of members and admins to modify existing property in the system.		to the system.	property. The new details stored in the database.	<p>Member or admin select the “Modify property” option.</p> <p>Member or admin fill in the modify property form.</p> <p>System checks the information.</p> <p>The property was modified to the system.</p>	<p>properties page.</p> <p>Admin select the “Modify property” option.</p> <p>Member or admin fill in the modify property form.</p> <p>System checks the information</p> <p>The property was modified to the system.</p>	property form.	
<b>Delete Property</b>	The steps and process of members and admins to delete existing property in the system.	Member, Admin	member and admin are login to the system	Members and admins deleted an existing property. The deleted property removed from the database.	<p>From profile page of member and admin.</p> <p>Member or admin select the “Delete property” option.</p> <p>System retrieves confirmation popup.</p> <p>Member or admin select the “yes “option.</p> <p>The property was deleted from the system.</p>	<p>For admin: From homepage and all properties page.</p> <p>Admin select the “Delete property” option.</p> <p>System retrieves confirmation popup.</p> <p>Member or admin select the “yes “option.</p> <p>The property was deleted from the system.</p>	--	Member and admin deleted existing Property in the system

						The property was modified to the system.		
<b>Manage subscription</b>	The steps and process of members and admins to manage subscription system.	Member, Admin	member and admin are login to the system	Members and admins modified subscription plan . The updated subscription plan stored in the database.	<p>From profile page of member and admin.</p> <p>Member or admin select the “Modify subscription ” option.</p> <p>Member or admin select the subscription plan they want.</p> <p>Member or admin fills the subscription form.</p> <p>System checks the information filled.</p> <p>The subscription plan modified and stored in the database.</p>	--	Invalid information in subscription form.	Member and admin modified subscription plan in the system.
<b>Mark listing as special</b>	The steps and process of members or admins to mark property as special	Member, Admin	member and admin are login to the system	Members or admins marked specific property as special.	<p>From profile page of member and admin.</p> <p>Member or admin select the “Modify property” option.</p> <p>Member or admin select “special” option.</p> <p>System checks modification.</p> <p>The property was marked as special.</p>	<p>For admin: From homepage and all properties page.</p> <p>Admin select the “Modify property” option.</p> <p>Member or admin select “special” option.</p> <p>System checks the</p>	--	Member and admin Marked property as special.

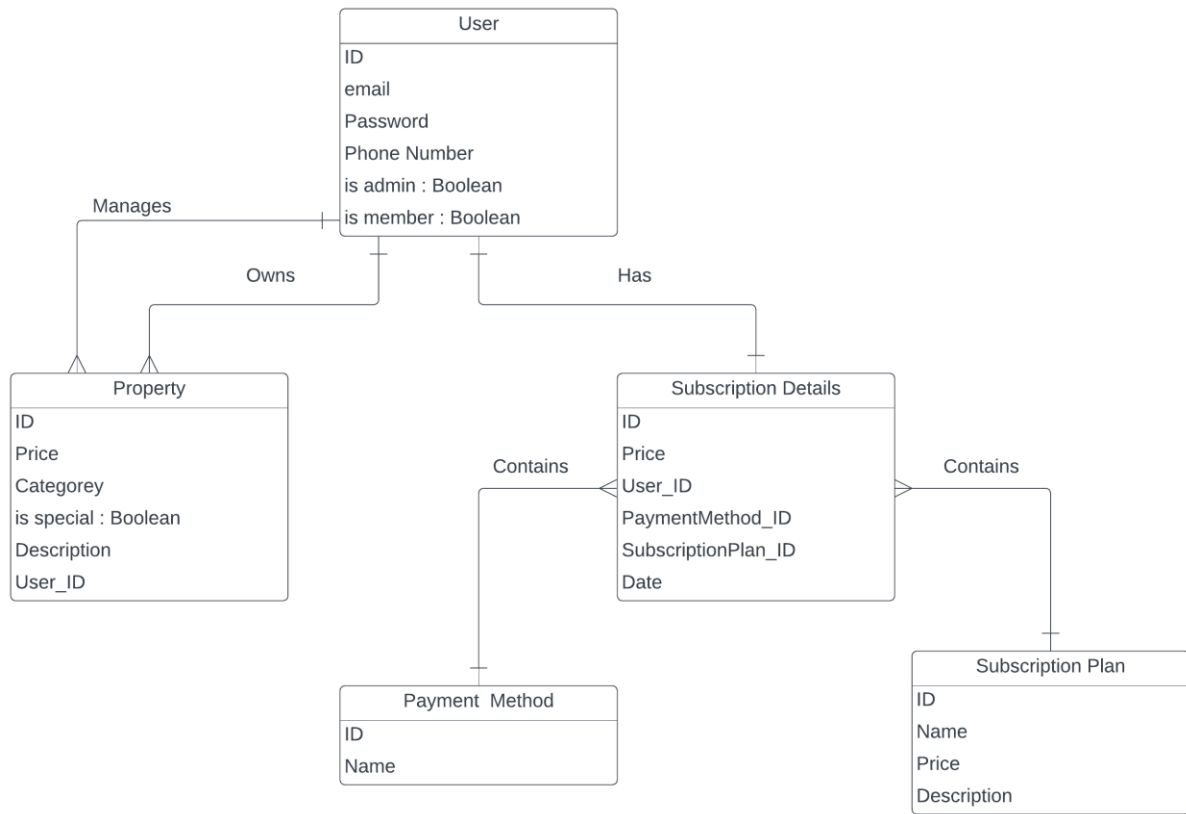
						modification.  The property was marked as special.		
<b>Modify user account</b>	The steps and process of members or admins to modify account	Member, admin	member or admin are login to the system	Members or admins modified specific account.	<p>For member: From profile page of member and admin.</p> <p>Member or admin select the “edit profile” option.</p> <p>Members fill in the modify account form.</p> <p>System checks the information.</p> <p>The account was modified to the system.</p> <p>For Admin: From all users pages.</p> <p>Admin select the “Modify account” option.</p> <p>admin fill in the modify account form.</p> <p>System checks the information.</p> <p>The account was modified to the system.</p>	--	Invalid information in modify account form	Member or admin Modified account.
<b>Show all users</b>	The steps and process of admins to show all users	Admin	Admin is login to the system	Showed all the users in the system.	<p>Admin goes to “All users” page.</p> <p>System displays all the users registered in the system.</p>	--	--	Admin shows all the user registered in the system.

	registered in the system.				Admin displayed all the users.			
<b>Delete account</b>	The steps and process of admins to delete user accounts in the system.	Admin	Admin is login to the system	Deleted the selected user account from the system.	<p>Admin goes to “All users” page.</p> <p>System displays all the users registered in the system.</p> <p>Admin select “delete” option on a specific account.</p> <p>System retrieves confirmation “popup.”</p> <p>Admin select “yes.”</p> <p>Admin deleted the user account.</p>	--	--	Admin deleted user account from the system
<b>Provide Reports</b>	The steps and process of admins to provide reports about the system performance and users.	Admin	Admin is login to the system	Reports are produced and are made accessible for investigation or sharing by the admin.	<p>From the dashboard</p> <p>Admin pressed on “reports” button.</p> <p>The system will retrieve a copy of users, properties, profit, etc.</p> <p>Admin select download report</p>	--	--	Admin provide reports And statistics about The system.
<b>Login</b>	The steps and process of members and admins to login to the system.	Member, Admin	Member and admin has account in the system	Member and admin is logged in the system.	<p>Admin or user selected “login” option.</p> <p>Fill the login information “username and password.”</p> <p>System checks the information.</p> <p>Admin or member is logged in.</p>	The Admin or member login to the system by using Google.	Invalid username or password.	Admin or member Login in the system By using username or Password.



# ERD Diagram

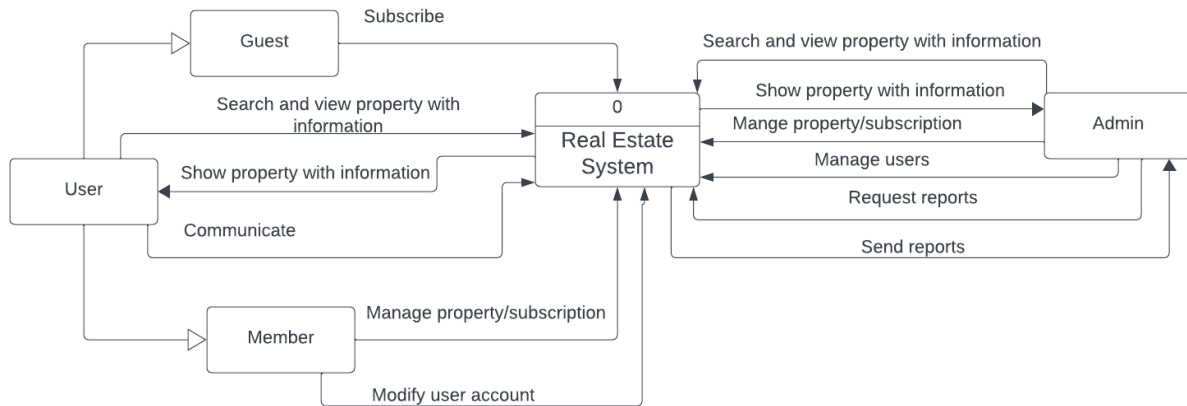
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# DFD

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Level 0 :

