PARSHWANATH CHARITABLE TRUST'S
A.P. SHAH INSTITUTE OF TECHNOLOGY
Department of Computer Science and Engineering
Data Science

Estate Manage

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Project Guide
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Introduction

The Estate Management System is designed to streamline the management of rental operations, including tenant agreements, payments, and maintenance schedules. It offers an efficient platform for managing property listings and automating administrative tasks.

Problem Identified :

Difficulty in managing tenant agreements and rent payments.

Clashes in tracking maintenance schedules manually

Solution Proposed :

Develop a digital rent management system to handle tenant agreements, rent collection

Objectives

1. Automate property uploads, updates, and removals to reduce manual workload for agents.

2. Enable secure role-based access (admin, agent, client) with authentication.

3. Streamline payments & viewings for seamless client transactions.

4. Provide real-time data tracking for properties, bookings, and payments.

Scope

1. Can be applied in real estate properties of all sizes, ranging from small apartments to large commercial complexes.

2. Can be integrated with a mobile app to provide an accessible and convenient platform for tenants to manage their rental activities on the go.

3. Can be used by property managers or tenants for managing agreements, tracking payments, and scheduling viewing

Feature /Functionality

1. Feature 1 : Tenant Management

A comprehensive system to manage tenant registrations, lease renewals, and cancellations. It will track tenant details, provide notifications for renewals, and allow easy access to lease agreements.

2. Feature 2 : Payment Processing

An integrated payment gateway to handle rent collection, maintenance fees, and other transactions. It will support multiple payment methods and provide invoices and receipts for tenants.
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Feature 3 : Admin Dashboard

A centralized admin dashboard for property managers to oversee operations, view tenant details, manage schedules, and monitor overall property performance. It also provides real-time insights and reports to help make informed decisions.

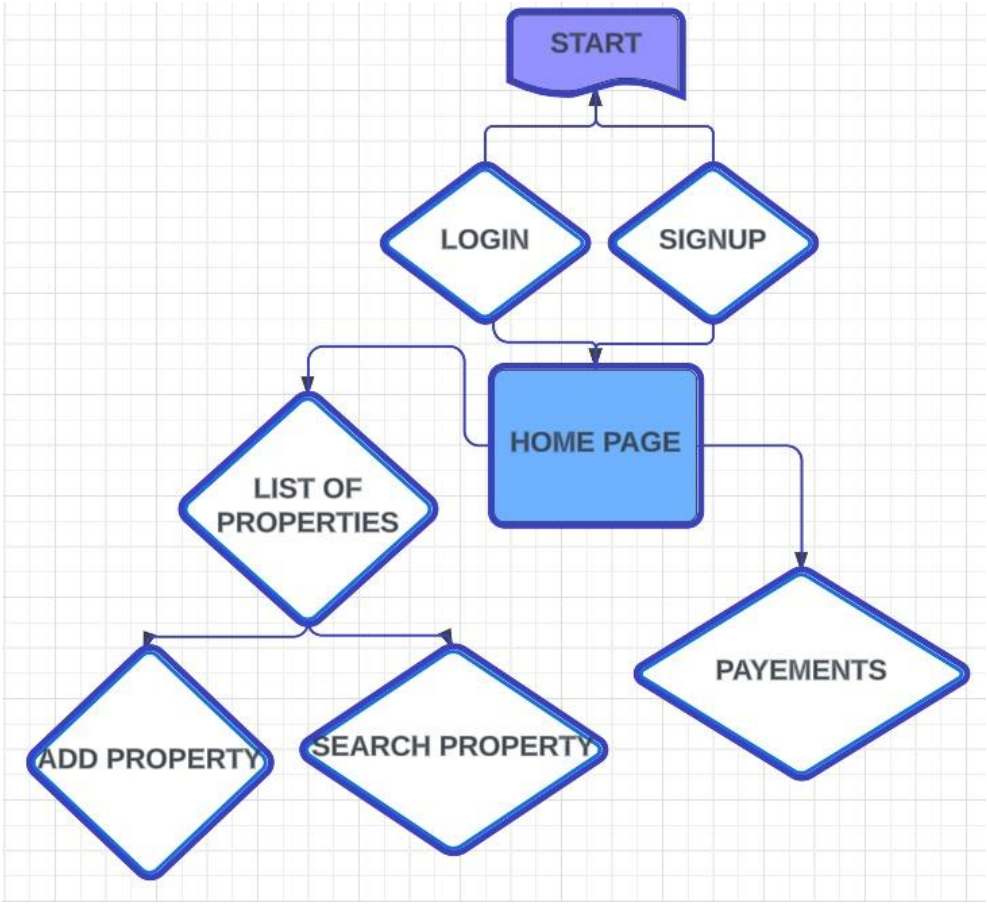
Outcome of Project

1. User can log in to the system using unique credentials (email/username and password).

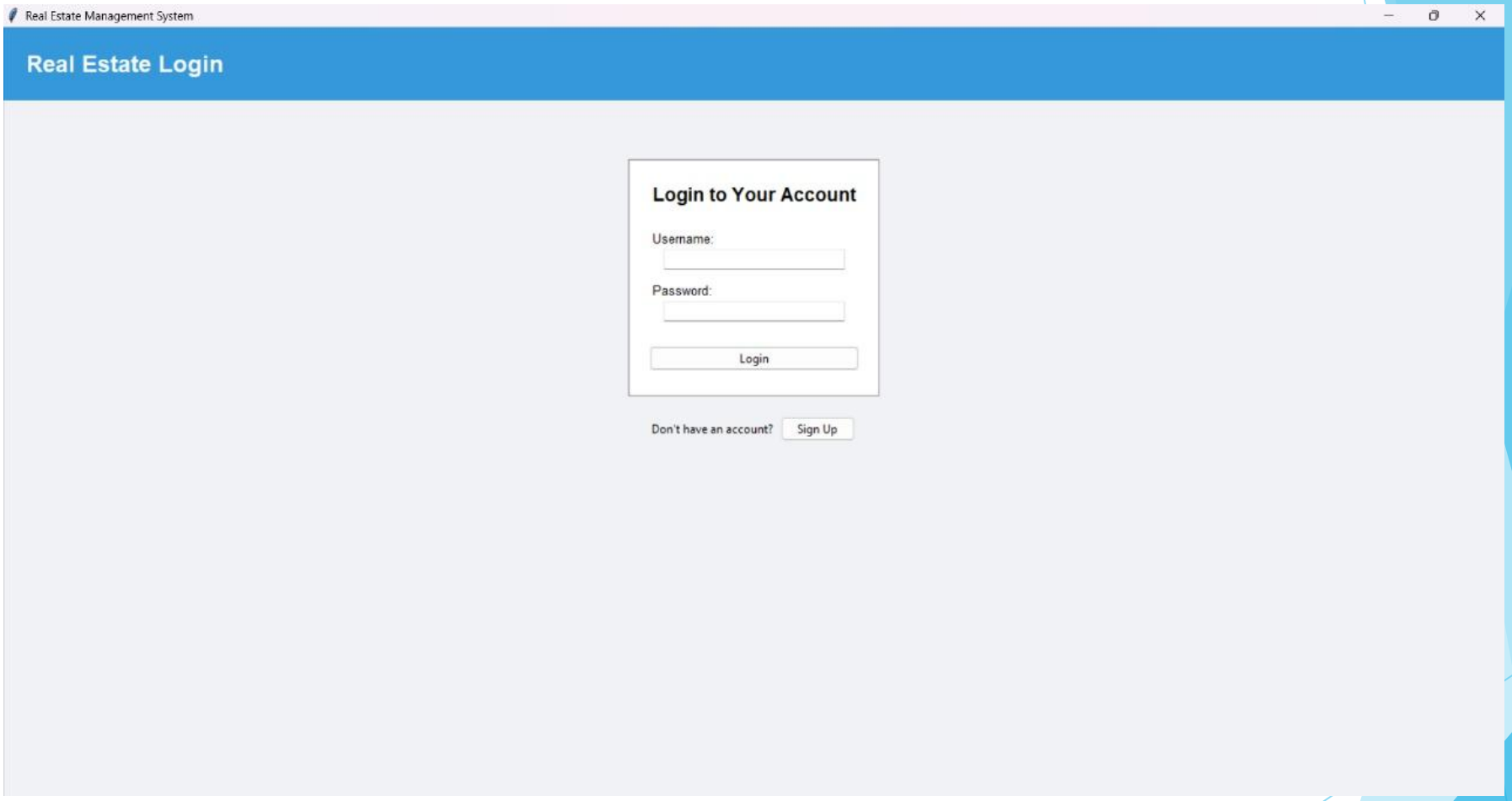
2. User can view and Manage their profile by, including personal details and membership plan.

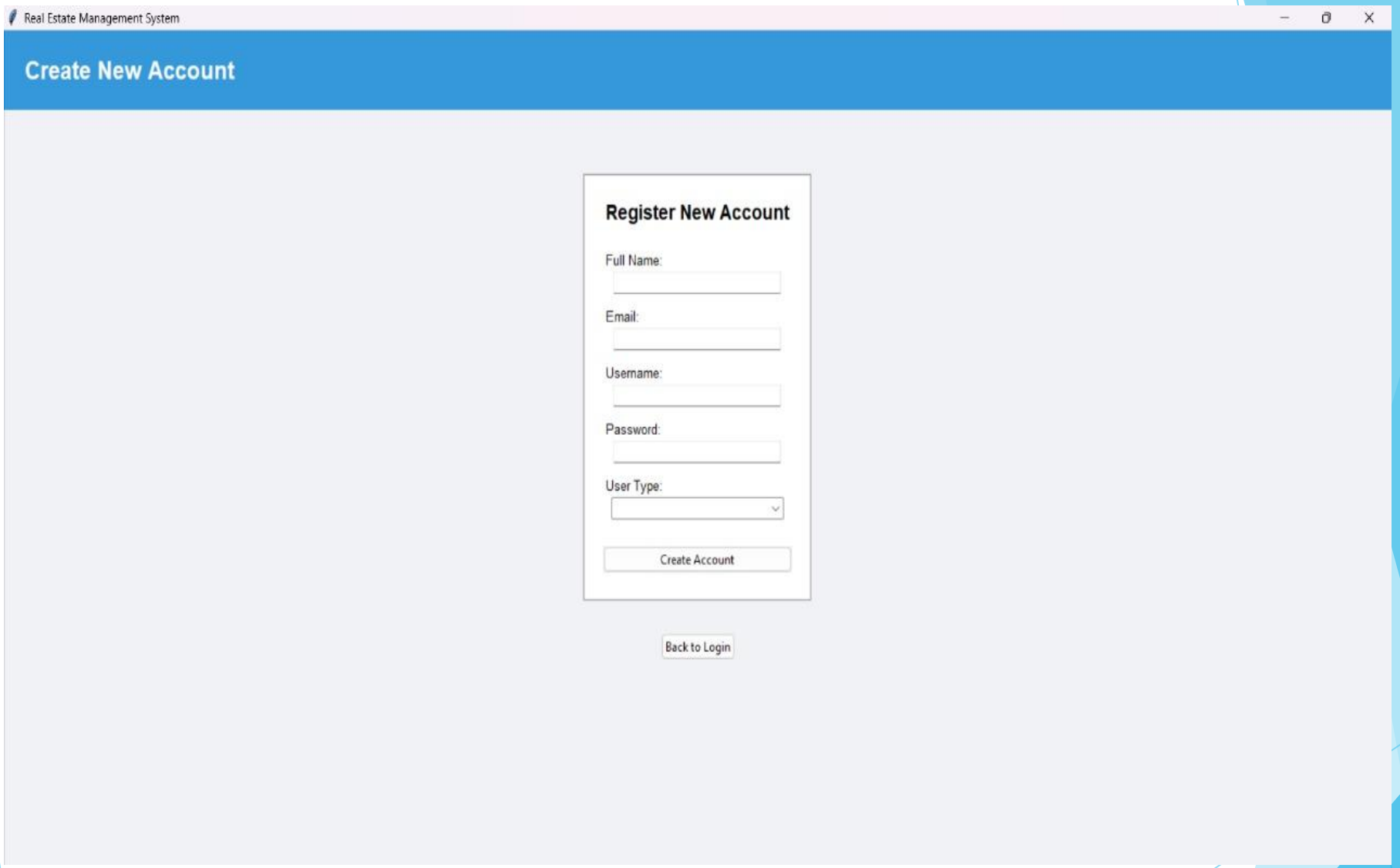
3. User can search for available properties, schedule Viewing , or make payments by date, time, or property preference.

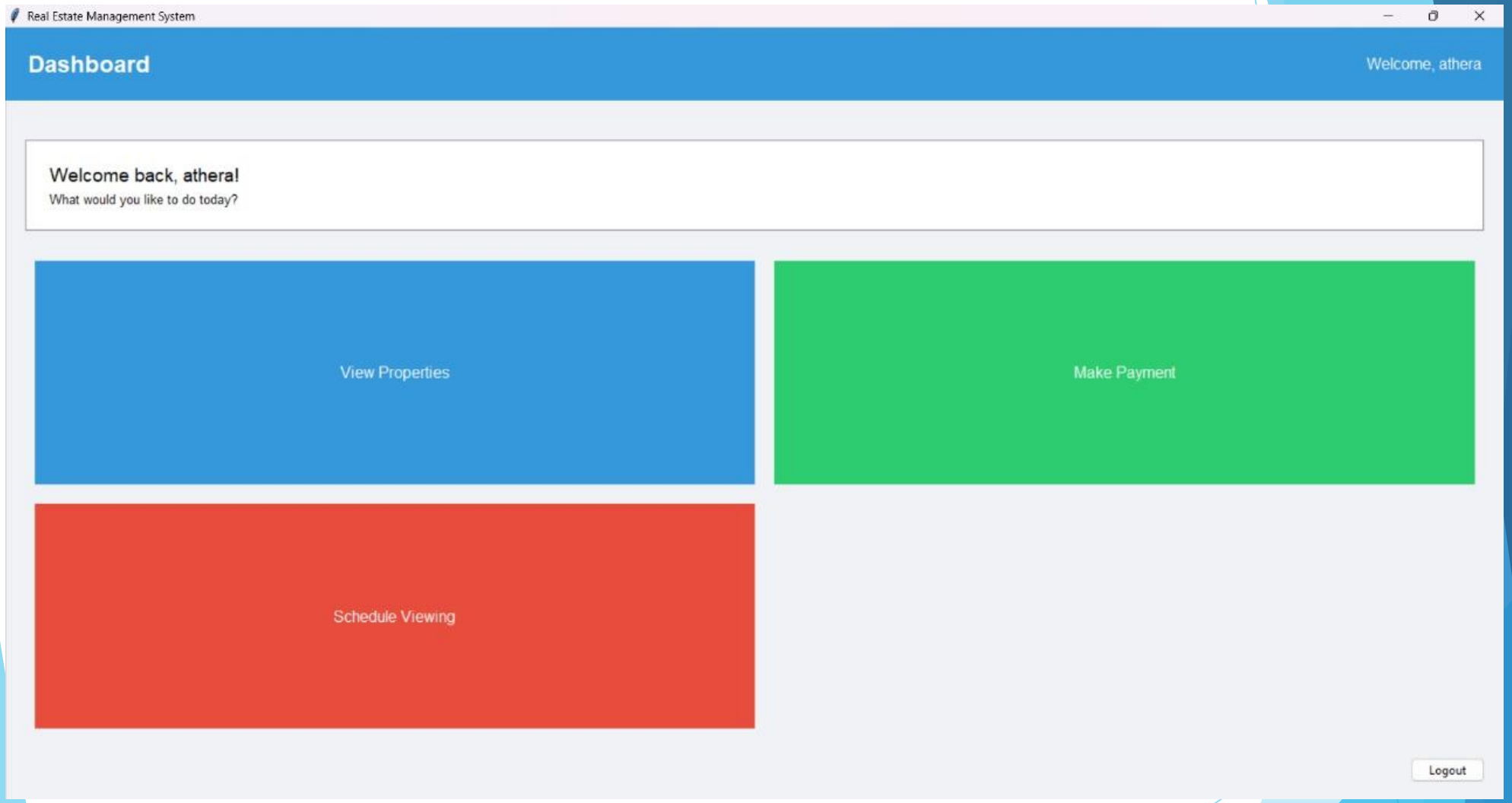
FLOWCHART

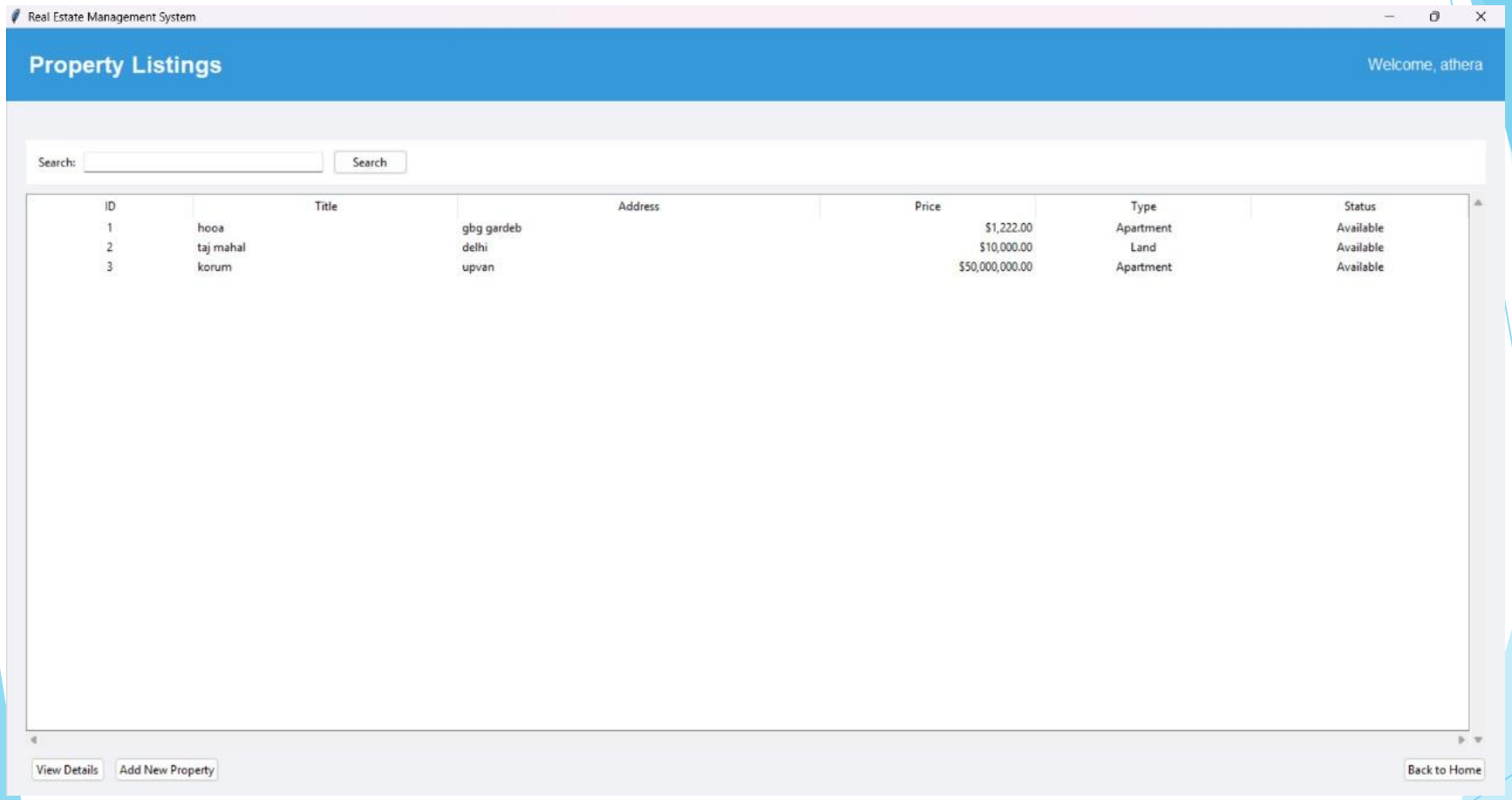

START
LOGIN
SIGNUP
HOME PAGE
LIST OF PROPERTIES
PAYEMENTS
ADD PROPERTY
SEARCH PROPERTY

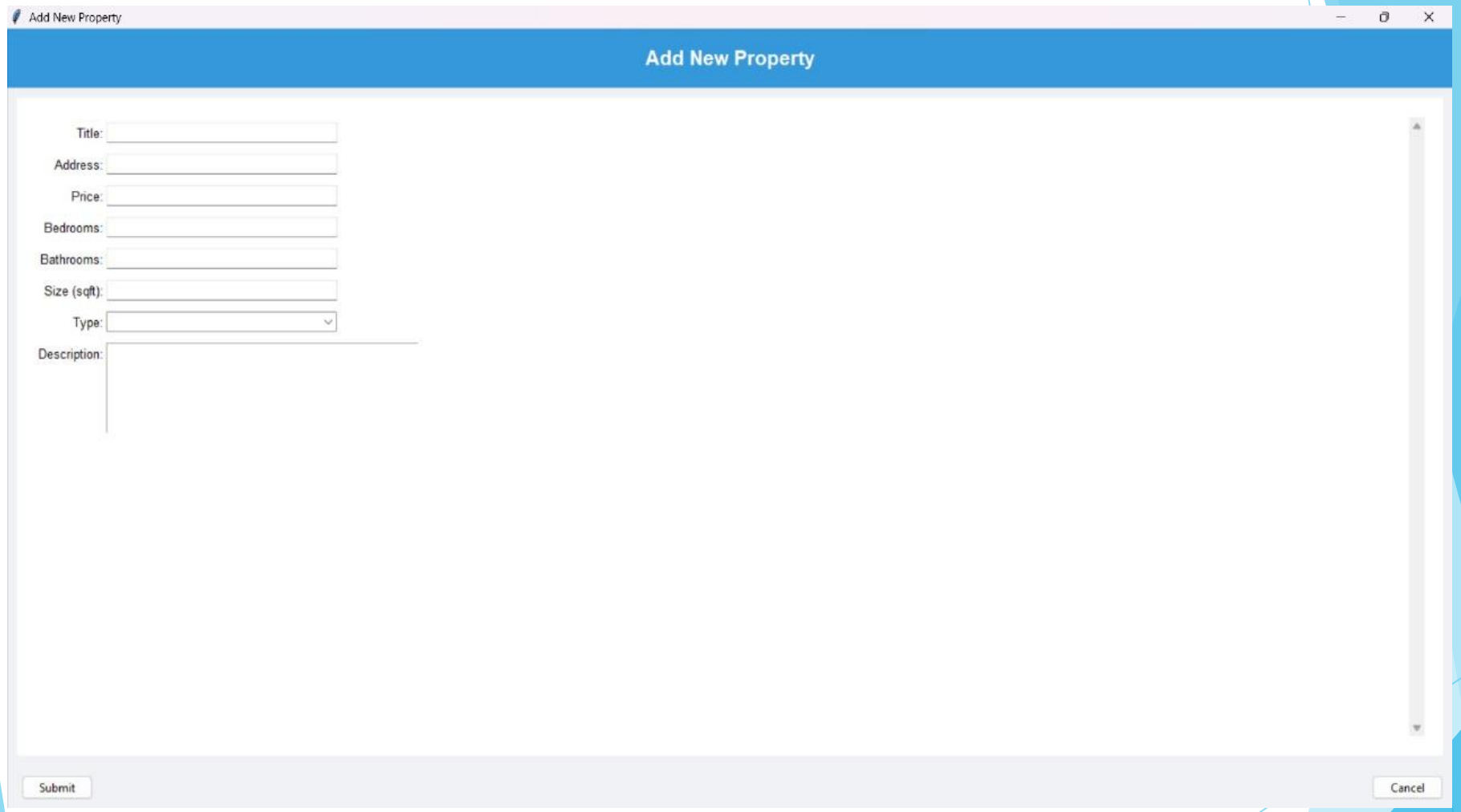
FRONTEND

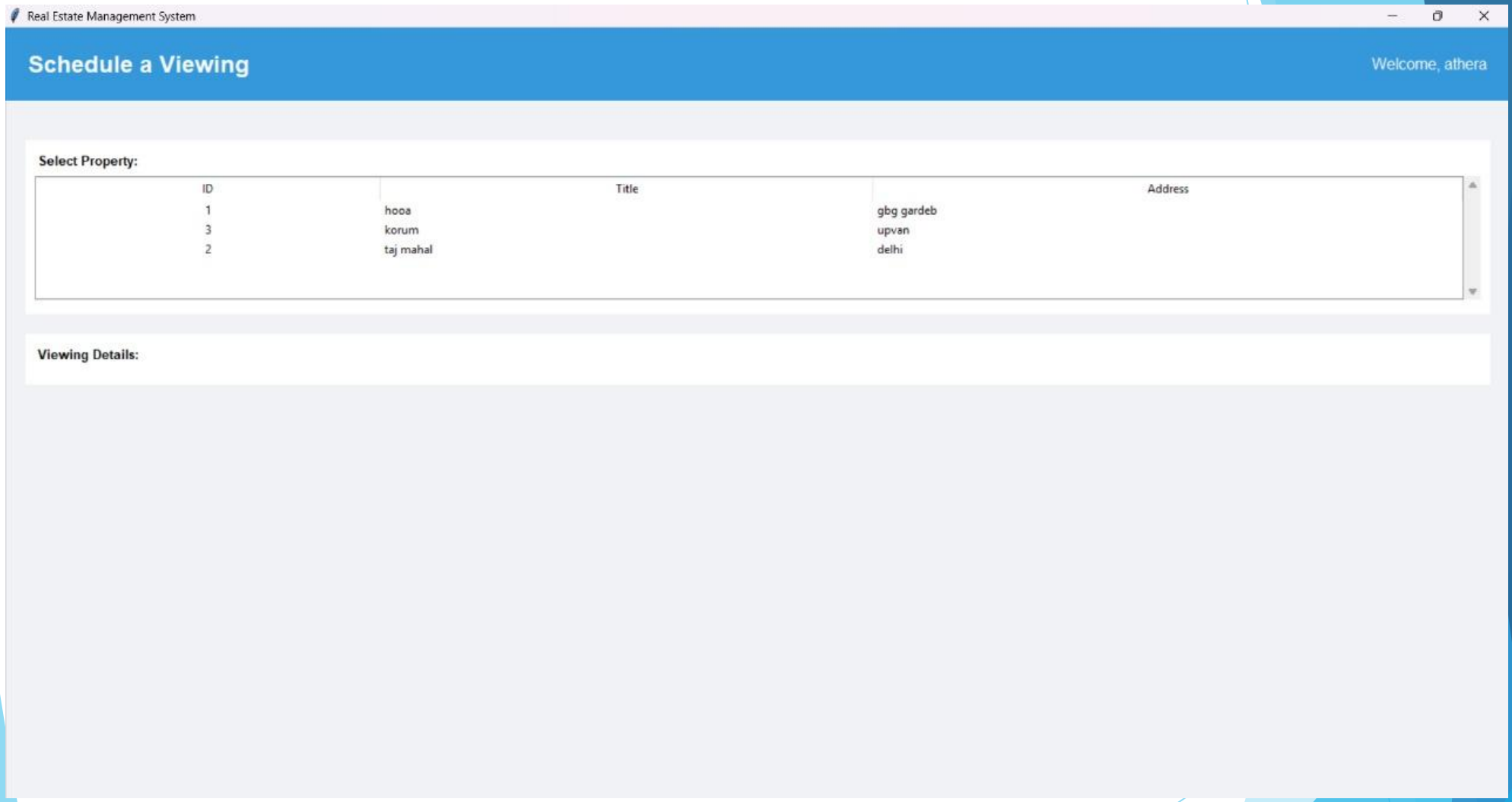

Real Estate Management System
Real Estate Login
Login to Your Account
Username:
Password:
Login
Don't have an account?
Sign Up

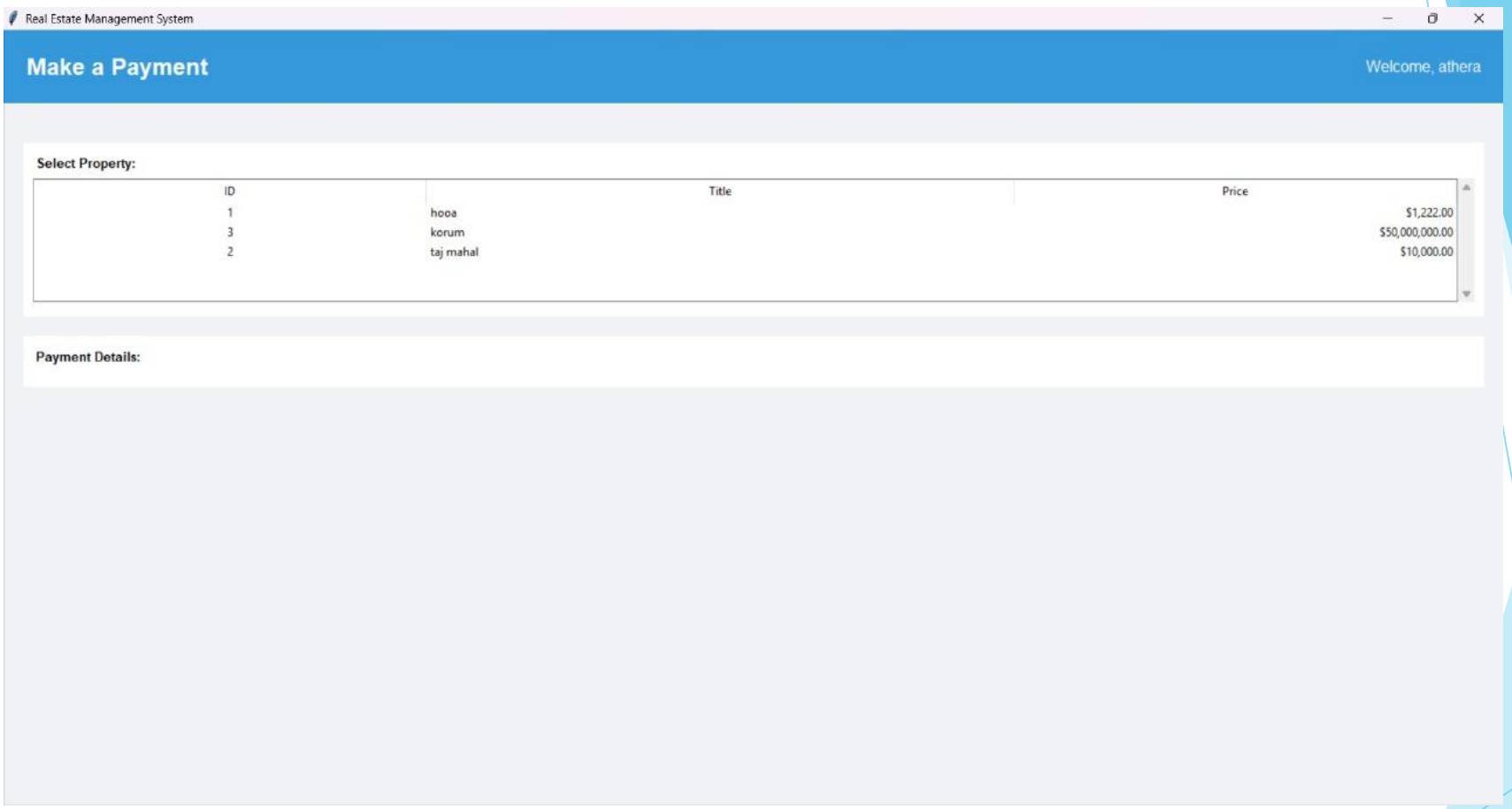

Real Estate Management System
Create New Account
Register New Account
Full Name:
Email:
Username:
Password:
User Type:
Create Account
Back to Login


Real Estate Management System
Dashboard
Welcome, athera
Welcome back, athera!
What would you like to do today?
View Properties
Make Payment
Schedule Viewing
Logout


Real Estate Management System
Property Listings
Welcome, athera
Search:
Search
ID
Title
Address
Price
Type
Status
1
hooa
gbg gardeb
$1,222.00
Apartment
Available
2
taj mahal
delhi
$10,000.00
Land
Available
3
korum
upvan
$50,000,000.00
Apartment
Available
View Details
Add New Property
Back to Home


Add New Property
Add New Property
Title:
Address:
Price:
Bedrooms:
Bathrooms:
Size (sqft):
Type:
Description:
Submit
Cancel


Real Estate Management System
Schedule a Viewing
Welcome, athera
Select Property:
ID
Title
Address
1
hooa
gbg gardeb
3
korum
upvan
2
taj mahal
delhi
Viewing Details:


Real Estate Management System
Make a Payment
Welcome, athera
Select Property:
ID
Title
Price
1
hooa
$1,222.00
3
korum
$50,000,000.00
2
taj mahal
$10,000.00
Payment Details:

Technology Stack

Frontend (GUI):

1.Tkinter: For building the desktop application interface and creating interactive user experiences.

Backend

1.Python: For the backbone for handling server-side logic and application functionality.

2.MySQL: Relational database for storing and managing user data, tenant details, payments, and maintenance schedules.

3.MySQL Connector/Python: For connecting Python to the MySQL database and executing SQL queries seamlessly.

Thank You...!!