

SOFTWARE PROJECT DESCRIPTION

PROJECT NAME

Web-Based Property Management Software(**PropHive**)

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1. PROJECT SUMMARY

PropHive is a digital solution that enables landlords and property managers to efficiently handle day-to-day operations related to real estate assets. These systems typically include tenant and lease management, online rent collection, maintenance tracking, and financial reporting. By moving operations online, such systems increase accessibility, transparency, and efficiency while reducing paperwork and manual errors. With features tailored to different user roles, such software is scalable for both small landlords and large property management firms. With this web-based software we are looking forward to having better experience in property management for both tenants and firms.

2. DESIGN GOALS

COMPONENT #1

END USER/ STORE ADMIN / FRONTEND

GOAL 1

Features / Functions : registration and login

I will build the registration and Login where they are able to store people's data and also delete them. also make it where they can choose what type of account they make. to be an owner of a property or to be a customer to buy property.

GOAL 2

Features / Functions : different UI between owner and customer

For the customer, it leads to the list of properties that he or she can buy or rent. and it Owner will lead to the track of time and statistics of every property ownership.

GOAL 3

Features / Functions : Booking & Contact owner

a function to contact the owner of a property to book and meet. (to meet the owner to negotiate, pay in person to rent or buy and transfer the ownership to the property.

GOAL 4

Features / Functions : QnA and help center

a page where they can submit questions and a guide list, and request a help ticket.

- frequent question asked page

COMPONENT #2

ADMINISTRATION PANEL / BACKEND

GOAL 1

Features / Functions : **Properties Management**

Edit/delete property listings: Administration for developers to add/delete/update property.

-Search function to look for certain properties, categories...

-Approve tenant applications: Request to rent/buy a properties request from customers and reports.

GOAL 2

Features / Functions: **Payment Management**

Record rent payment, table payment with amount, dates of the payment, IDs and information..

-Have a payment history shown for customers.

-admin function to edit/ add / delete any transaction.

-Provide customers with details and information about their properties through data collected from the database.

GOAL 3

Features / Functions: **Tenant Management**

Tenant information, provide tenant reports such as payments, dates issue, record and track utility usage.

-Creating a login for customers for only their own property information view.

-Creating a login for adminfor to add, update, and delete information as new information coming in and admin management

COMPONENT #3

API AS CENTRAL SYSTEM (END USER PANEL/ ADMIN PANEL, MOBILE INTEGRATED)

GOAL 1

Features / Functions : API for Login and Authentication

- Verify user credentials (email and password) for authentication.
- Upon successful login, generate a secure session or token for protected access.
- Manage user session, session expiration, and access control.
- Support role-based authentication (tenants, owners, admins).

GOAL 2

Features / Functions: API for User Registration

- Allow new users (customers, owners, admins) to register by submitting personal info, selecting roles, and setting a password.
- Validate inputs, hash passwords for security, and store user details.
- Send a verification email to confirm user registration.
- Handle role-based access and track user status (verified or not).

GOAL 3

Features / Functions: API for Property Management

- Support full CRUD functionality: Create, Read, Update, Delete property listings.
- Admins and owners can add, edit, or remove properties.
- Customers can browse and view properties using filters (location, price, availability).
- Each property record includes details like title, price, location, status, and amenities.

GOAL 4

Features / Functions: API for Payment Management

- Manage rent and transaction records for properties.
- Admins can add, edit, or delete payment transactions (amount, date, property, user ID).
- Customers can view their payment history.
- Link payment records to specific users and properties for accurate reporting.

GOAL 5

Features / Functions: API for Booking and Owner Communication

- Allows customers to send booking requests and inquiries to property owners.
- Booking API stores meeting requests or negotiation inquiries in the database.
- Enables messaging or contact features between customers and owners.
- Admins can monitor booking activities for moderation or approval.

GOAL 6

Features / Functions: API for User and Tenant Management

- Allow admins to view, update, or delete user profiles.
- Users can view and update their own information.
- Provide access control to ensure users only see their data unless they are admins.
- Admins can access reports and data related to tenants (property assignments, payment records, usage history).

GOAL 7

Features / Functions: API for Help Center and Support

- Allows users to submit support tickets or questions.
- Stores tickets in the database and marks their status (open, in progress, resolved).
- Provides access to a list of FAQs and guides for user self-service.
- Admins can manage incoming support requests and respond accordingly.

References:

<https://www.c-herald.com.kh/>