



EAST WEST UNIVERSITY

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# Project

CSE 479: Web Development

Section: 03

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## Abstract

The Online House Renting System is a web based application developed using PHP, MySQL, HTML, CSS, and JavaScript. The system provides a simple and secure platform where house owners can publish rental listings and users can browse, search, and request houses for rent. An admin panel is included to manage users and approve listings. The project focuses on core web development concepts such as authentication, role based access control, CRUD operations, and database connectivity.

## 1. Introduction

Finding rental houses manually is time consuming and inefficient. This project aims to digitize the house renting process by offering a centralized online platform. House owners can easily list properties while renters can view details and communicate through the system. The application is suitable for small scale rental management and academic learning purposes.

## 2. Objectives

- To design a simple and user friendly house renting platform
- To allow users to register and log in securely
- To enable house owners to create, update, and delete listings
- To allow renters to browse and view house details
- To provide an admin panel for managing users and approving listings
- To practice PHP MySQL integration and MVC like folder organization

## 3. System Overview

The system is divided into three main user roles:

- Guest users who can browse listings
- Registered users who can manage profiles and listings
- Admin users who control system level operations

The application follows a modular structure with separate folders for configuration, public pages, admin pages, assets, and database scripts.

## 4. Technology Stack

- Frontend: HTML5, CSS3, JavaScript
- Backend: PHP
- Database: MySQL
- Server: Apache
- Containerization support: Docker

## 5. Project Structure

The project is organized as follows:

- public: Contains user facing pages such as login, register, listings, profile, and listing details
- admin: Contains admin dashboard, user management, and listing approval pages
- config: Includes database configuration, environment variables, paths, and error handling
- includes: Reusable components such as header, footer, authentication, and middleware
- assets: CSS, JavaScript, and uploaded listing images
- sql: Database schema
- docker: Dockerfile and Apache configuration

This structure improves maintainability and code reuse.

## 6. Functional Requirements

### 6.1 User Authentication

- Users can register using a valid email and password
- Secure login and logout functionality
- Session based authentication

### 6.2 User Profile Management

- Users can view and update their profile information

### 6.3 House Listing Management

- Owners can create new house listings
- Listings include title, description, price, and image

- Owners can edit and delete their own listings

## 6.4 Browsing and Viewing Listings

- All users can browse available houses
- Detailed view page for each listing

## 6.5 Admin Features

- Admin dashboard with overview information
- View and manage registered users
- Approve or reject house listings before publication

The screenshot displays the homepage of the NorthAxis Rental Platform. At the top, there is a navigation bar with a logo, "Rental Platform", and links for "Home", "Listings", "Login", and "Register". The main header features a teal background with the text "Find Your Perfect Rental" and a subtext "Discover amazing properties for rent in your area". A "Browse Listings" button is centered below the subtext. Below this section, there is a heading "Featured Listings" followed by two listing cards.

Property Title	Rent Price	Description
kjadjkjk	\$1,312.00/month	Apartment dkajjjskdakkj
soaow	\$271,872.00/month	Apartment jsakjsdjak

## Register

Full Name \*

Email \*

Phone

Address

Password \*

Minimum 6 characters

Confirm Password \*

## Login

Email

Password

[Forgot Password?](#)[Don't have an account? Register](#)

## My Profile

### Profile Information

Name \*

Email

Email cannot be changed

Phone

Address

[Update Profile](#)

### Change Password

Current Password \*

New Password \*

Confirm New Password \*

[Change Password](#)

## My Listings Admin Dashboard

[Create New Listing](#)

[Review Pending Listings](#)
[Manage Users](#)

### Recent Listings

ID	Title	Owner	Price	Status	Created	Actions
4	kjadkjk	Test	\$1,312.00	APPROVED	Dec 14, 2025	<a href="#" style="background-color: #007bff; color: white; padding: 5px 10px; border-radius: 5px;">View</a>
3	hjdahdj	Dummy	\$512,625.00	REJECTED	Dec 14, 2025	<a href="#" style="background-color: #dc3545; color: white; padding: 5px 10px; border-radius: 5px;">View</a>
2	soaow	Dummy	\$271,872.00	APPROVED	Dec 14, 2025	<a href="#" style="background-color: #007bff; color: white; padding: 5px 10px; border-radius: 5px;">View</a>

## Create New Listing

Title \*

Description \*

Price per Month (\$) \*

Property Type

Address \*

Bedrooms

Bathrooms

Area (sq ft)

Images

## My Listings

[Create New Listing](#)

kjadjkj

\$1,312.00/month

dkajjksdakkj

[Edit](#)[Delete](#)

## Browse Listings

**Filters**

Search...

## Min Price

## Max Price

## Location

City, State

## Property Type

All Types

**Apply Filters****Clear**

2 listing(s) found



**kjadkj**  
**\$1,312.00/month**  
📍 jdkaikskdakkj  
Apartment  
🛏 3 bed



**soaow**  
**\$271,872.00/month**  
📍 jaakjsdjak  
Apartment  
🛏 3 bed

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## Approve Listings

Review and approve or reject pending listings

**Some**

Owner: Test (test2@t.ca)  
Price: \$1,000.00/month  
Location: ajksaksjks  
Type: Apartment  
Bedrooms: 3  
Created: Dec 17, 2025 16:25

Some

**Approve****Reject****View Full Details**

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**Table Action**

	houses	users	Browse	Structure	Search	Insert	Empty	Drop	Rows	Type	Collation	Size	Overhead
2 tables	2	1	InnoDB	utf8mb4_general_ci	16.0 KiB	-							
Sum	3		InnoDB	utf8mb4_general_ci	32.0 KiB	-							
			InnoDB	utf8mb4_general_ci	48.0 KiB	0 B							

**Extra options**

**houses**

id	owner_id	title	location	rent	rooms	description	image_path	created_at
1	1	test	Aftabnagar	10000.00	2	fgdfwbjvnkkjh	2025-12-14 13:26:39	
2	2	test	Aftabnagar	10000.00	2	fgdfwbjvnkkjh	2025-12-14 13:31:01	

**users**

id	name	email	phone	password	created_at
1	Alzana	alzana@example.com	12345678900	\$2y\$10\$Ee7OWeM47J6iLhh3MU801e2EL0GwXkkJfsy2CYwJ2w...	2025-12-14 13:23:19

## 7. Database Design

The database schema is defined in the schema.sql file. The main tables include:

- users: Stores user and admin account information
- listings: Stores house listing details
- roles or status fields to differentiate admin and normal users

Primary and foreign keys are used to maintain data integrity.

## 8. Security Considerations

- Passwords are stored using hashing techniques
- Authentication middleware restricts unauthorized access
- Admin pages are protected from normal users
- File upload directory is separated from core logic

## 9. Error Handling

A centralized error handler is used to manage application errors. This improves debugging and user experience by preventing raw error output.

## 10. Deployment and Configuration

- Environment variables are managed using env.php
- Database connection is configured in database.php
- Docker support allows easy deployment and testing in isolated environments

## 11. Limitations

- No real time chat between users
- Payment system is not implemented
- Search and filtering features are basic
- Email verification and password recovery are limited

## 12. Future Enhancements

- Advanced search and filter options
- Integrated online payment system
- Messaging system between renters and owners
- Email and SMS notifications
- Improved UI with modern frameworks

## 13. Conclusion

The Online House Renting System successfully demonstrates a complete PHP and MySQL based web application. It fulfills the core requirements of a rental listing platform while maintaining a clean and modular code structure. This project is suitable for academic submissions and as a foundation for more advanced real world rental systems.

## 14. References

- PHP Official Documentation
- MySQL Documentation
- Apache Web Server Documentation