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## **School of Computer Science Engineering & Information Science**

# **A Report on Mini-Project Titled : “RentEase: Home Acquisition and Disposition Platform”**

**Course Title: Web Technologies**

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## Abstract

The rapid growth of digital platforms has transformed the way individuals search for rental properties and interact with homeowners. However, many existing systems are either overly complex, require account creation before viewing listings, or depend on heavy database-driven architectures. **RentEase: Home Acquisition and Disposition Platform** is a lightweight, user-friendly web application developed using **HTML, CSS, and PHP**, designed to overcome these barriers by offering a clean, flexible, and fully accessible experience for both property seekers and homeowners. The platform is implemented using the XAMPP environment, enabling seamless integration of PHP for server-side processing while maintaining a simple and portable project structure suitable for academic and real-world demonstration. The main focus of RentEase is to provide a straightforward and visually appealing interface where users can browse curated property listings without sign-in requirements. Property details—including images, rent, location, and category—are displayed using a refined card-based layout powered by an improved CSS design system. The interface emphasizes readability, responsiveness, and user engagement, ensuring that listings remain visually consistent across devices. Each property card features high-quality images, bold rent indicators, and clear city labels, creating an experience similar to modern commercial rental platforms. The platform includes a **dynamic filtering system** that allows users to filter properties based on city and budget. This feature enhances usability by reducing search time and making the platform intuitive for first-time users. Additionally, property owners can submit new property details through a dedicated form, while interested users can quickly initiate contact with owners using an integrated message form. These interactions are processed using PHP scripts that handle user input, generate formatted confirmation pages, and support seamless navigation. Importantly, the entire system works **without a database**, relying instead on server-side PHP arrays and form submissions—making it ideal for demonstration in academic environments where simplicity and clarity are required. RentEase also demonstrates strong **front-end engineering principles**, utilizing structured CSS to create consistent spacing, balanced layouts, responsive grids, and non-overlapping interactive elements. The overall visual design is intentionally modern, minimalistic, and aligned with current UX/UI standards to provide a smooth and professional user journey. The platform's architecture highlights core web development concepts including form handling, page connectivity, dynamic display of data, user interface design, responsive layout management, and interaction between client-side and server-side components.

# Introduction

The advancement of internet technologies has significantly changed the way individuals search for, evaluate, and acquire rental homes. With the increasing dependence on digital platforms for everyday tasks, there is a growing demand for simplified, user-friendly systems that allow tenants and property owners to communicate efficiently. Traditional methods of finding rental properties—such as newspaper advertisements, local brokers, or unstructured social media posts—often lead to incomplete information, delayed communication, and limited accessibility. To address these challenges, modern web-based platforms have emerged as essential tools for streamlining the home acquisition and disposition process.

**RentEase: Home Acquisition and Disposition Platform** is an interactive web application developed using core web technologies such as **HTML, CSS, and PHP**, intended to provide an accessible, responsive, and visually engaging environment for users seeking rental homes. Unlike high-complexity applications that rely heavily on databases or advanced frameworks, RentEase emphasizes simplicity and clarity, making it ideal for academic demonstration while still reflecting real-world functionality. The platform is executed through the XAMPP local server, enabling smooth interaction between front-end web pages and PHP-based server-side logic.

The primary purpose of RentEase is to present property listings in a structured and intuitive format, allowing users to quickly explore available homes based on location and rental budget. To support this, the platform includes a dedicated filtering system, ensuring that users can narrow down results without manually searching through long lists. Each property is displayed using a visually appealing card layout, designed through a refined CSS system that emphasizes visual balance, mobile responsiveness, and easy readability. Realistic property images, rent pricing, and location details are showcased to build user trust and create an experience similar to established property rental portals.

From the perspective of homeowners or landlords, RentEase provides a simple interface to **post new property listings** through an integrated property submission form. Users can enter details such as rent, city, and description, which are processed by PHP scripts and displayed in a confirmation layout. Similarly, prospective tenants can communicate with property owners through a dedicated **contact page** that captures essential information including name, email, and message content. These interactions are managed using lightweight PHP logic that handles form processing and page connectivity without requiring a database, allowing the platform to remain highly portable and easy to deploy in academic settings.

The platform also focuses heavily on **user experience (UX)** and **user interface (UI)** design. The layout is built on a responsive grid system that adapts to desktops, tablets, and mobile devices without compromising usability. Buttons, forms, images, and text blocks are consistently aligned and styled to ensure a seamless browsing experience. The modular design of the CSS framework ensures that the website maintains a professional appearance while remaining simple enough for further enhancement or integration with backend technologies such as MySQL in future iterations.

# Software Requirements

## 1. Operating System

- Windows 10 / Windows 11 (Recommended)
- Linux (Ubuntu), macOS (Optional, supported through equivalent servers)

## 2. Server Environment

- XAMPP Server Package
- Apache Web Server
- PHP Interpreter (version 7.4 or above)

## 3. Programming Languages

- HTML5 – For structuring web pages
- CSS3 – For styling, responsive layout, and better user experience
- PHP (Server-side scripting) – For processing forms, page connectivity, and dynamic output.

## 4. Web Browser

Any modern, standards-compliant browser:

- Google Chrome (Recommended)
- Mozilla Firefox
- Microsoft Edge
- Safari

## 5. Code Editor / IDE

- One of the following:
- Visual Studio Code (VS Code)
- Sublime Text
- Notepad++

# Hardware Requirements

## 1. Processor

- Minimum: Dual-Core Processor
- Recommended: Intel i3 or above

## 2. RAM

- Minimum: 4 GB RAM
- Recommended: 8 GB or higher

## 3. Storage

- Minimum: 500 MB free space
- Recommended: 1 GB free space

## 4. Display

- Minimum: 1366 × 768 resolution
- Recommended: 1920 × 1080 (Full HD)

## 5. Input Devices

- Standard keyboard and mouse for coding, navigation, and testing.

# MODULES / FUNCTIONALITIES

## 1. Home Page / Property Listing Module

This is the central module of the system and acts as the primary interface for users. Displays all available rental properties using a clean card-based layout. Shows essential details such as:

- Property title
- Rent amount
- City / Location
- Property image
- Each property card contains built-in action buttons (e.g., Contact Owner).
- Responsive grid ensures proper alignment on laptops, tablets, and mobile devices.
- Uses PHP arrays to dynamically generate and display property listings.

## 2. Property Filtering Module

This module enables users to efficiently search for suitable properties.

- Filter by City (e.g., Bangalore, Chennai, Mumbai).
- Filter by Price Range (Below ₹10,000 / ₹20,000 / ₹30,000).
- Results update instantly after filter selection.
- Improves user experience by reducing time spent searching manually.

## 3. Property Submission Module (Add Property)

This module is used by property owners to post new properties. Provides a structured form with fields for:

- Property Title
- City
- Rent
- Form data is submitted using PHP to a dedicated script (addproperty\_action.php).
- Submitted information is displayed in a formatted confirmation page.
- No database is required — information handled through simple PHP processing.

#### **4. Contact Owner Module**

This module enables users to get in touch with property owners regarding a listing. Accessible from each property card via Contact Owner button. Displays property title to ensure clarity about which listing is being contacted. Form captures:

- Name
- Email
- Message
- Uses PHP to process and display confirmation on send\_message.php.
- Ensures smooth user-owner interaction.

#### **5. User Registration Module**

Though simple, this module helps demonstrate form-based user onboarding. Registration page with fields:

- Name
- Email
- Password
- Role (User / Owner)
- Submitted data is displayed on a success page.
- Easy to extend in the future for login or database support.

#### **6. UI/UX and Layout Management Module**

This module handles the design, structure, and responsiveness of the website. Implements a refined CSS stylesheet to ensure:

Consistent spacing

Responsive grid layouts

Modern color scheme

Improved button layout

Non-overlapping card elements

Smooth transitions and hover effects. Ensures the website maintains a professional appearance on all devices.



## **7. Page Navigation & Connectivity Module**

This module ensures seamless movement between all pages of the platform. Direct navigation links for:

- Home
- Add Property
- Register
- Contact
- All pages interconnected through clean PHP routing.
- Ensures error-free transitions without broken links

## CONCLUSION

The RentEase: Home Acquisition and Disposition Platform represents a comprehensive demonstration of how fundamental web technologies—HTML, CSS, and PHP—can be combined to create a practical, user-friendly, and publicly beneficial rental service. The strength of this project lies in its ability to truly ease the complex and often stressful experience of finding or listing rental homes, which justifies the name “RentEase.” Renting a home traditionally involves several challenges: unreliable newspaper ads, overwhelming broker charges, unverified listings, miscommunication, and the difficulty of comparing multiple properties at once. RentEase directly addresses these issues by offering a clean, transparent, and well-structured platform where users can instantly view curated rental homes with accurate information, high-quality images, and clearly displayed rent values. The filtering system further minimizes time and effort by allowing users to narrow down properties based on their city and budget, making the search process smooth and efficient for students, families, job seekers, and anyone relocating. The platform becomes equally valuable for property owners by providing them an easy-to-use submission interface, enabling them to post rental information quickly without technical knowledge or the need for third-party agents. By ensuring direct communication through the Contact Owner module, RentEase reduces dependency on brokers and eliminates unnecessary middlemen, benefiting the public by encouraging transparent and cost-efficient interactions. The website’s design, powered by a refined CSS framework, ensures that the entire interface remains visually consistent, responsive, and easy to navigate on laptops, tablets, and mobile phones. This focus on user experience ensures that even first-time internet users can browse listings comfortably without confusion or technical barriers. Since the entire system runs on lightweight PHP scripts without a database requirement, it is easy to deploy, fast to load, and reliable even in limited computing environments, making it accessible for educational purposes, small-scale housing services, and local community rental platforms. In essence, RentEase makes the rental process genuinely easier by reducing time, cost, complexity, and uncertainty. It brings together tenants and property owners through a single, organized platform where information is clear, interactions are simple, and the overall experience is free from the complications that usually accompany the home renting process. The project meets its goals by delivering a meaningful, real-world solution that showcases excellent design principles, practical usability, and thoughtful problem solving. RentEase stands as a successful representation of how well-designed web applications can create value for the public by simplifying everyday needs—in this case, making the search, posting, and communication around rental homes smooth, stress-free, and truly effortless.