



Apartment Finder

Group: 09

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Introduction

The "ApartmentFinder" project introduces a web-based application poised to revolutionize apartment hunting in Dhaka. With a keen focus on efficiency and professionalism, the platform offers customizable search filters, advanced mapping integration, and a comprehensive real-time database of listings. Navigating the highly condensed areas of Dhaka for a residence can be challenging, but worry no more – this app efficiently shortlists residences within your specified criteria. This not only saves time for seekers but also enhances the experience for both renters/buyers and sellers in the process.



What it actually does?

This project is about, effortlessly finding your desired home with the "Apartment Finder" web-app. Its user-friendly interface and robust search filters make buying, selling, or renting properties a breeze. Dive into detailed listings featuring photos, maps, and amenities, and receive instant alerts for new matches. Find essential information like rent, sale cost, location, and included facilities at your fingertips. Seamlessly connect with sellers or agents, read insightful user reviews, and make informed decisions to streamline your property search.



Target Market and Audience

Demographic	Age	Location	Income Level
Young Professionals	25-34	Urban areas	Medium to high
College Students	18-24	College areas	Low to medium
Families	25-44	Suburban areas	Medium to high
Retirees	55+	Retirement communities	Medium to high



Purpose


- To simplify the process of finding apartments for rent.
- To provide a user-friendly platform for apartment seekers to search, compare, and connect with landlords or property managers.

Functionality

- Users can input their location, budget, and preferred amenities to receive a list of available apartments.
- Users can view photos and details of each apartment, including pricing and availability.
- Users can filter their search results based on additional criteria, such as pet-friendliness and parking availability.

Does the team demonstrate a thorough understanding of the need, problem or opportunity?

The team exhibits a deep understanding of the need, problem, or opportunity related to apartment hunting, specifically tailored for the Dhaka market. Clear indications of comprehensive research, including in-depth market analysis, user surveys, and a detailed examination of challenges not only in Dhaka's urban landscape but also most cities in Bangladesh. Extensive research has been conducted, encompassing market analysis, user surveys, and a thorough examination of the challenges faced by individuals seeking residences in the urban landscape. The identified pain points, such as complex search processes and limited transparency in listings, have been meticulously addressed in the app's features and functionalities. The evidence-based approach underscores the team's commitment to developing a solution precisely aligned with the identified needs and opportunities specific to the apartment hunting domain in Dhaka.



User Story

Title: Login/Logout	Priority: High	Estimate:
<p>As a registered user,</p> <p>I want to log in to my account with my credentials,</p> <p>so that I can I can access personalized features and apartment listings.</p>		
<p>Acceptance criteria</p> <p>Given a registered user with valid login credentials,</p> <p>When the user enters the correct username/email and password and clicks the 'Login' button,</p> <p>Then the user should be redirected to their dashboard displaying their account information and available apartment listings.</p>		
<p>Platform:</p> <ul style="list-style-type: none">• Mobile: iOS, Android• Web: Desktop, Mobile browser <p>Language/framework:</p> <ul style="list-style-type: none">• Frontend: React Native (for mobile), React.js (for web)• Backend: Node.js with Express, Firebase• Database: MongoDB		

User Story

Title: Register	Priority: High	Estimate:
<p>As a new user,</p> <p>I want to create an account by providing necessary details,</p> <p>so that I can I can access the app's features and post my apartment listings.</p>		
<p>Acceptance criteria</p> <p>Given a new user accessing the registration page,</p> <p>When the user fills in the required fields (username, email, password) and submits the registration form,</p> <p>Then the user should receive a confirmation email or verification code to activate their account.</p>		
<p>Platform:</p> <ul style="list-style-type: none">• Mobile: iOS, Android• Web: Desktop, Mobile browser <p>Language/framework:</p> <ul style="list-style-type: none">• Frontend: React Native (for mobile), React.js (for web)• Backend: Node.js with Express, Firebase• Database: MongoDB		

User Story

Title: Chat Communication	Priority: Moderate	Estimate:
<p>As a user interested in an apartment,</p> <p>I want to communicate with the property owner/agent through a chat feature,</p>		
<p>Acceptance criteria</p> <p>Given a user interested in an apartment listing,</p> <p>When the user clicks on the 'Contact Owner' or 'Chat' button on the listing,</p> <p>Then a chat interface should open, enabling real-time messaging between the user and the property owner/agent.</p>		
<p>Platform:</p> <ul style="list-style-type: none">• Mobile: iOS, Android• Web: Desktop, Mobile browser <p>Language/framework:</p> <ul style="list-style-type: none">• Frontend: React Native (for mobile), React.js (for web)• Backend: Node.js with Express, Firebase• Database: MongoDB		

User Story

Title: Getting notified of new listings	Priority: Moderate	Estimate:
<p><i>As a buyer actively searching for apartments</i></p> <p>I want to be notified when new listings match my criteria.</p> <p>so that I can stay updated on the available options quickly.</p>		
<p>Acceptance criteria</p> <p>Given <i>that I want to search for apartments or houses in my desired criteria</i></p> <p>When <i>I set up search alerts based on specific criteria, such as location, price range, or amenities.</i></p> <p>Then the app should push notifications or email alerts when the new listings matching my preferences become available</p>		
<p>Platform:</p> <ul style="list-style-type: none">• Mobile: iOS, Android• Web: Desktop, Mobile browser <p>Language/framework:</p> <ul style="list-style-type: none">• Frontend: React Native (for mobile), React.js (for web)• Backend: Node.js with Express, Firebase• Database: MongoDB		

User Story

Title: Post Apartment	Priority: High	Estimate:
<p>As a registered user,</p> <p>I want to post details of my apartment for rent,</p> <p>so that potential tenants can view and inquire about the property.</p>		
<p>Acceptance criteria</p> <p>Given a registered user logged into their account,</p> <p>When the user selects the 'Post Apartment' option and fills in the apartment details (address, size, rent amount, amenities, photos),</p> <p>Then upon submission, the apartment should be successfully posted and added to the app's listings.</p>		
<p>Platform:</p> <ul style="list-style-type: none">• Mobile: iOS, Android• Web: Desktop, Mobile browser <p>Language/framework:</p> <ul style="list-style-type: none">• Frontend: React Native (for mobile), React.js (for web)• Backend: Node.js with Express, Firebase• Database: MongoDB		

User Story

Title: Saving favorites for future reference	Priority: Moderate	Estimate:
<p><i>As a buyer exploring multiple options</i></p> <p>I want to save my favorite apartments.</p> <p>so that I can easily compare and revisit them later.</p>		
<p>Acceptance criteria</p> <p><i>Given that I want to save some favorite apartments and shortlist them for later</i></p> <p><i>When I mark apartments as favorites while browsing the listings</i></p> <p>Then the app should have a dedicated section where I can view and manage my saved favorites whenever I want to.</p>		
<p>Platform:</p> <ul style="list-style-type: none">• Mobile: iOS, Android• Web: Desktop, Mobile browser <p>Language/framework:</p> <ul style="list-style-type: none">• Frontend: React Native (for mobile), React.js (for web)• Backend: Node.js with Express, Firebase• Database: MongoDB		

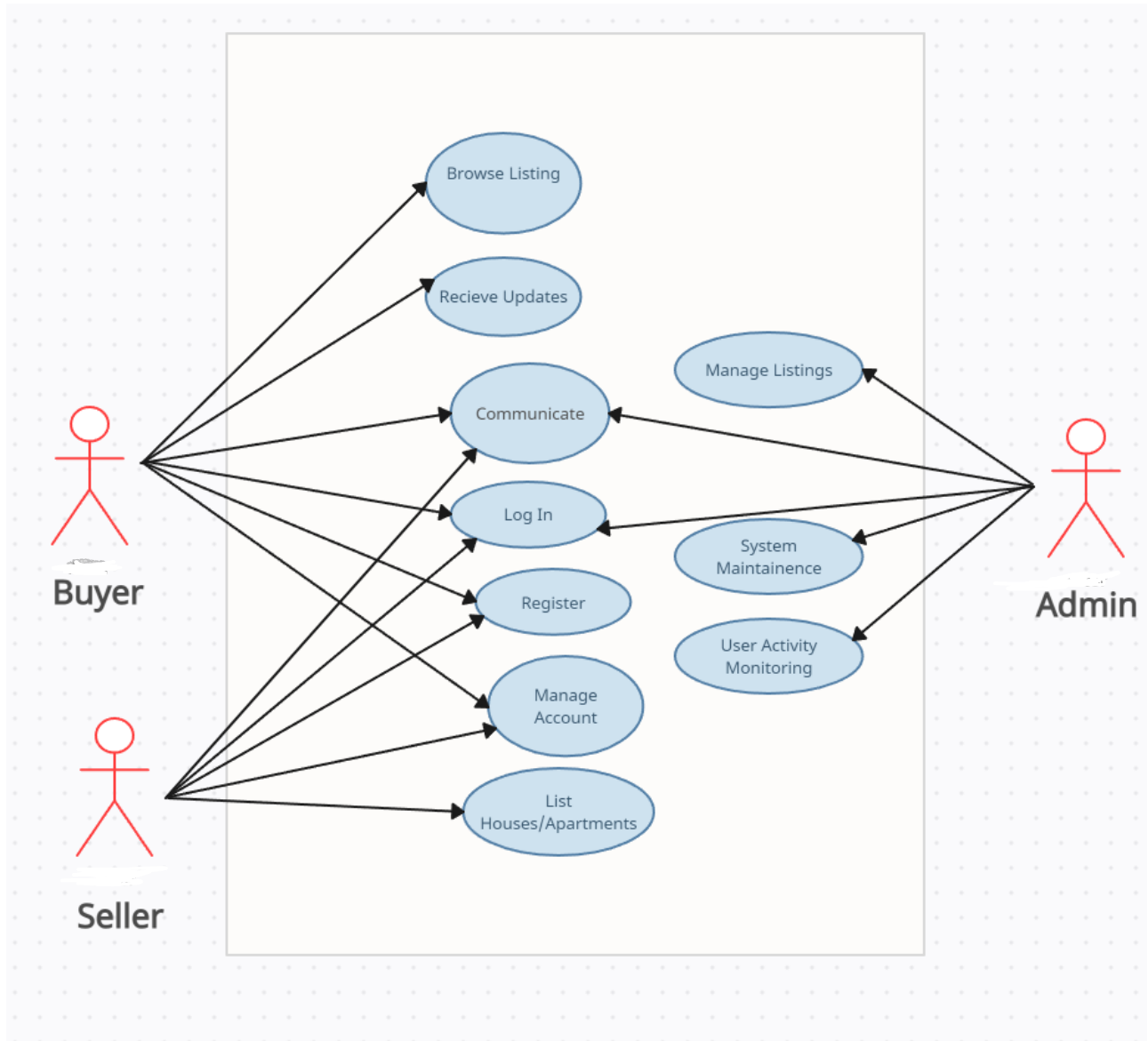
User Story

Title: Searching for a new home	Priority: High	Estimate:
<p>As a buyer looking for new houses or apartments</p> <p>I want to easily search for available properties</p> <p>so that I can find the place that meets my need without any issues.</p>		
<p>Acceptance criteria</p> <p>Given that I want to search for apartments in specific places</p> <p>When I search for places and filtering out to get the desired results I required</p> <p>Then the app should be able to provide the results in a clear and organized manner, showing relevant information like images, price and important features. Clicking on them should display more details about the property.</p>		
<p>Platform:</p> <ul style="list-style-type: none">• Mobile: iOS, Android• Web: Desktop, Mobile browser <p>Language/framework:</p> <ul style="list-style-type: none">• Frontend: React Native (for mobile), React.js (for web)• Backend: Node.js with Express, Firebase• Database: MongoDB		

User Story

Title: Viewing property details	Priority: High	Estimate:
<p>As a user interested in a specific apartment</p> <p>I want to see the detailed information about the property</p> <p>so that I can I can make an informed decision.</p>		
<p>Acceptance criteria</p> <p><i>Given that I want to know the detailed information on a specific apartment</i></p> <p><i>When I tap/click on the property section</i></p> <p>Then the app should be able to display high-quality images, a detailed description, information about amenities and the contact information of the seller or owner.</p>		
<p>Platform:</p> <ul style="list-style-type: none">• Mobile: iOS, Android• Web: Desktop, Mobile browser <p>Language/framework:</p> <ul style="list-style-type: none">• Frontend: React Native (for mobile), React.js (for web)• Backend: Node.js with Express, Firebase• Database: MongoDB		

Use Case Diagram:



Contribution Table:

Md. Tasin Hossain Toha - 2011664042	<ul style="list-style-type: none"> -Target Market and Audience in slide -Purpose and Functionality in slide -Does the team demonstrate a thorough understanding of use case diagram -4 User Stories: 1) login/logout 2) register 3) communication 4) post
S A M Zahin Abdal - 2031276642	<ul style="list-style-type: none"> -Introduction in slide -Description in slide -Does the team demonstrate a thorough understanding of the need, problem or opportunity? -Does the team demonstrate a thorough understanding of use case diagram -4 User Stories: 1) notification 2) saving 3) searching 4) viewing
Shanila Nehlin - 2031113642	<ul style="list-style-type: none"> -Introduction in slide -Description in slide -Does the team demonstrate a thorough understanding of the need, problem or opportunity? -Does the team demonstrate a thorough understanding of use case diagram -Use Case Diagram
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