

SOFTWARE REQUIREMENTS SPECIFICATION (SRS) For REAL ESTATE MARKETPLACE MANAGEMENT

Prepared by Abu Saddat Mohammad Sayem (181014073) Rahmuna Afrin (193014056)

1. INTRODUCTION			
1.1 PURPOSE	The purpose of this document is to create an online platform for those people who want to build their dream house or buy a flat to bring all the necessary elements like plots, flats, engineers, architects, brick kilns companies, workers, construction companies, home decorators		
	companies all on one platform.		
1.2 DOCUMENT	This document uses some conventions such as Database, Distributed		
CONVENTIONS	Database, Entity Relationship.		
1.3 INTENDED	This project is an attempt to bring people from all professions		
AUDIENCE	involved in real estate on one platform. When any one needs people of any profession like developers, civil engineers, architects, carpenters, painters, or need any product like bricks, paint, cement, home decoration materials etc. they can easily get through this system and can communicate through our chatting system. This Project is useful for every person who wants to build a home or decorate their home.		
1.4 PROJECT SCOPE	The purpose of this online system is to create a platform to easily find people of all professions involved in real estate and customers can easily access all the materials and people of all professions they need for their new house or to decorate their house. We will have a large database server that will support all company information, service provider information and their services or products. This		
	online system has a user registration and authentication system, Document management system, communication system etc. On the other hand, customers can provide feedback or reviews of services and products. Above all, we hope to provide a comfortable customer experience with the best cost available.		
1.5 REFERENCES	1. https://krazytech.com/projects		
	2. Fundamentals of database systems by ramez elmarsi and shamkant b.navathe		
	2. OVERALL DESCRIPTION		
2.1 PRODUCT PERSPECTIVE	A distributed database system stores the following information. Service Providers Details: This includes service provider id, name, address and phone number, type of work, fees etc. Product Seller Details: This includes seller id, name, address and phone number, products information etc. Customer Details: This includes customer id, name, address and phone number. This information may be used to maintain systems and records for any emergency or other information.		
2.2 PRODUCT FEATURES	The major features of this system is a large database system and Entity-relationship. Other key features are property listings, Equipment and Inventory Management, Communication		

	and Collaboration, User registration and authentication, safety				
	management, best product suggestions, Resource allocation etc.				
2.3 USER CLASSES		stem should be able to retrieve the required			
AND FEATURES	information from the database. The system will support three types				
	of user privileges: Customer, Service Provider, Product Seller				
	Customers will have access to customer functions and Service				
	Providers & Sellers will have access to their dashboard management				
	functions.				
	Customers Functions:Registration and account management				
	_	<u> </u>			
		of required information			
	_	and searching			
		cart and checkout			
	_	nd order management			
		views and ratings			
	Customer support				
	Product Seller Function:				
	Product m	anagement			
	 Order man 	agement			
	Inventory	management			
	 User mana 	gement			
	 Marketing 	and promotions			
	Delivery a	nd Logistics Staff			
	Order fulfi	llment			
	Get custon	ner review and rating			
	Service Provider Function:				
	Registration and account management				
	Dashboard management				
		management			
	_	and promotions			
2.4 OPERATING	• Get review and rating The operating environment for this system is as listed below.				
ENVIRONMENT	Distributed database				
	Operating system: Android, IOS, Windows				
	Database:				
		Flutter/ Dart			
2.5 DESIGN AND					
IMPLEMENTATION	The global schema, fragmentation schema, and allocation schema.				
CONSTRAINTS	 SQL commands for the above queries/applications 				
COMBINATIO					
		Property Information Accuracy Implement the detabase at least using a centralized detabase.			
	 Implement the database at least using a centralized database management system. 				
3. SYSTEM FEATURES					
3.1 FUNCTIONAL	3.1.1 User	Users can create accounts and provide			
REQUIREMENTS	Registration	necessary personal information.			

3	.1.2 Listing nd Search	 Users can log in securely using their credentials. Password reset functionality is available. Property owners or administrators can add and manage property listings. Users can search and browse property and product listings based on criteria such as location, price range, property type etc. Detailed information, including description, photos, floor plans, and virtual tours, is displayed. 		
C ai N	.1.3 Communication nd Totifications	 Customers can communicate with service providers, product sellers or property sellers through messaging or chat functionality. Email or push notifications are sent to users for important updates, such as lease renewals, maintenance requests, or payment reminders. 		
	.1.4 Document Ianagement	 Product-related documents can be stored, accessed, and organized. Version control and document sharing capabilities are available. 		
4. EXTERNAL INTERFACE REQUIREMENTS				
4.1 USER INTERFACES	 The app should have a user-friendly and intuitive interface. It should be compatible with various devices and screen sizes, including desktops, laptops, tablets, and smartphones. The User Interface should follow established design 			
4.4.11.4.DD11/4.DE		and provide a consistent user experience.		
4.2 HARDWARE	Android/ IOS Device or Computer Internal Computation			
INTERFACES	Internet-CoGPS	onnectivity		
4.3 SOFTWARE		n Programming Interfaces		
INTERFACES	Web Services			
	 Messaging 	Services		
		nd Geolocation Services		
	<u> </u>	System/ Browser		
4.4	Messaging			
COMMUNICATION	Push Notif Paul Time	Communication		
INTERFACES 5 NO				
5. NONFUNCTIONAL REQUIREMENTS5.1 PERFORMANCE The system should be highly responsive and perform efficiently, even				
	•	per of concurrent users or extensive data. It should		
	_	ading times, quick search results, and smooth		
	avigation between	=		

5.2 SECURITY	• This system should implement security measures, including
	encryption, secure data storage, and secure use
	authentication.
	 Access to sensitive information and functionality should b
	restricted based on user roles and permissions.
5.3 USABILITY	• The system should have an intuitive and user-friendl
	interface.
	• Proper navigation, clear labels, and contextual help should b
	provided to aid users in using the app effectively.
5.4 DATA	The system must ensure the accuracy, consistency and
INTEGRITY AND	integrity of the data stored.
CONFIDENTIALITY	• It should prevent data corruption or unauthorized
	modification.
	• It must comply with relevant data protection regulations and
	maintain the confidentiality of user information.
5.5 PERFORMANCE	The app should include performance monitoring and logging
MONITORING	capabilities to track system performance, identify bottlenecks
	and optimize resource utilization.
	• It will provide administrators with relevant performance
	metrics and logs for troubleshooting and system optimization
5.6	The app should be designed and developed in a modular and
MAINTAINABILITY	maintainable manner.
	• It should have clean code, proper documentation and well
	defined architecture to facilitate future improvements, bu
	fixes and system updates.