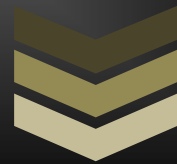# Project Proposal

SOFTWARE ENGINEERING PROJECT 2 (WEB PROGRAMMING) FALL-2016(SECTION A)

Submitted By:

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Project Name: "*Rental House Management System*"

1. Overview

1.1. Background

Housing has a central importance to quality of life with considerable economic, social, cultural and personal significance. Housing plays a huge role in revitalizing economic growth in any country, with shelter being among key indicators of development. The focus of this project is basically managing housing for low income, medium and high incomes households or what is commonly known as affordable housing. Most families choose to rent houses based on their income and family situations; The demand for rental houses is extremely high and more rental houses need to be put in place. Developing rental houses comes with many advantages especially to the house owners who are able to increase their profits through rent paid by the tenants. Increased number of tenants and house owners makes management difficult especially for the house owners who are losing huge sum of money through tenants who evade rent. The above statement gives a clear declaration as to why house rental agency management system need to be developed.

1.2. Objectives

Rental House Management System will be web based system. The house rental agency manages property for rent in Dhaka. Clients who wish to rent a property will register with the agency. They will provide personal details and information about the property type that they want. House owners will also register with the agency, providing their property details and personal details require for rent. Registered client will be able to see the available properties from the agency site. If any property match with his requirement, the client will inform the agency and the agency will manage the letting contract between the client and house owner. After the completion of the contract, the agency will get the commission from the house owner.

1.3. Actor

1.   Agency.
2.   House owner
3.   Client

1. 4. Raw requirement

a) The house rental agency manages property for rent and properties are registered with the agency.

b) House owners register their properties providing their details and information about the property.
c) Clients who wish to rent a property will register with the agency and they can see the available properties from the agency site.
d) Agency will provide personal details and other information about property to clients.
e) The clients will inform the agency if any property match with their requirement.
f) Agency will manage the letting contract between the client and house owner and after the completion of the contract agency will get the commission from house owner.

1.3.1. Scope

The project scope defines the description of the work that is required in delivering the rental house or house for sell which will be provided by this system. The following are the scopes of work during the course of the project:
*Study and understand the requirement of this project.
*Construct Software Requirement Specification document of the system.
*Construct Software Design Document of the system.

1.6.   Assumptions and Constraints

The assumptions and constrains could be briefly described as below:
Accounting: Especially when multiple properties are involved, people might not even realize that inaccurate or less-than-timely accounting processes are taking place. The lost productivity and issues that follow errors in data entry can add up quickly, hindering the bottom line.
Maintenance management: From scheduling and oversight to the actual walkthroughs that need to take place to ensure facilities are up to par with clients' expectations, there should always be a method in place to track and handle these matters.
Feedback response: This one is critical to ensure long-term engagement and happiness among clientele, as slow responses to feedback, criticism or requests can lead to poor retention. If there is no strategy in place, no method to your madness, you might want to rethink your approach.

1.7. Dependencies and Risks

All users must have web access in order to use the system. Web security will be more concern of the project. Database design will be also a great challenge due to prevention of Sql Injection. Guest users and anonymous aren't allowed to enter in the database will be the main challenge. Run of the project mainly depends on hardware of the server. Also user should have

enough knowledge about internet browsing and can use such a device by which he/she may access.

2. Project Delivery

2.1. Platform/language of development

1. HTML
2. CSS
3. PHP(Laravel)
4. MySql

2.2. Deliverables

The following contents will be delivered with the project:
a) Project Demo
b) Documentation

2.3 Timescales and work distribution
Starting date: 10/10/2016 and submission date: 19/12/2016

Days ⟹ Task ⇩	1st week	2nd week	3rd week	4th week	5th week	6th week	7th week	8th week	9th week	10th week
Project proposal	███									
SRS		███								
Designing			███	███	███					
Coding						███	███	███		
Testing									███	
Finalization and submission										███

Figure: Time frames for project implementation

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Work Distribution		
Project Proposal	Md. Nafiul Islam/Dewan Imtiaz Been Emran	7days
Software Requirement Specification	Md. Nafiul Islam/Dewan Imtiaz Been Emran	7 days
Software Design	Md. Nafiul Islam/Dewan Imtiaz Been Emran	21 days
Coding	Md. Nafiul Islam/Dewan Imtiaz Been Emran	21 days
Software Testing	Md. Nafiul Islam/Dewan Imtiaz Been Emran	7 days
Finalization	Md. Nafiul Islam/Dewan Imtiaz Been Emran	7 days

Figure: Work distribution for project implementation

2.4. Project Resources

Hardware Requirements		
Processor	**RAM**	**Hard Disk Space**
Pentium IV or higher	64 Mb or higher	128 Mb or higher
Software Requirements		
Operating System		**Database**
For user no specific OS is required.		MySql

Table: Project Resources

3. Summary

The project will be for the mass people. So it should be very easy to use and user friendly. We also concern about the security purpose because this will be the online based system. There will be some terms and conditions for all kind of users because this can a be platform of business dealing, the platform which may concern about Rental House Management System property.

4.   References

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