

Software requirements specification

A website www.bdmachine.com development and management.

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1.Introduction

1.1 Purpose

Mr. Habib Ahmed is a machine and stone importer and exporter. He imports many machines from abroad and sell them to local vendors of Bangladesh. But his business scope is bounded by local regions. So he wants a website to showcase his products in various region in Bangladesh. So he has come to Tetro IT company for a website development.

1.2 Intended audiences

The expected audiences are first of all Mr. Habib Ahmed and his customers from Bangladesh and sellers from abroad.

1.3 Scope

The main purpose of this website to fully unleash the business strength of Mr. Habibb to all local vendors and to all customers of machine and lime stone. This website is intended to create to expand the business scope of Mr. Habib .

1.6 Overview

This SRS is divided in three sections. The first section gives the introduction of the RCLMS.

The second section provides the overall description of the system. Finally, the third section includes a detailed description of all the requirements belonging to the website.

2.Overall description

2.1 Details.

Mr. Habib lives in sylhet. He visits many countries regularly in order to find the products that will be needed by the people of Bangladesh. Currently he only imports machines for stone crushing from China, Singapore etc and lime stone from India. He has found that these machines have a gread demand outside of Sylhet. But it is almost impossible for him to find the correct customers for machines and lime stone. So he wants to make a website where he can post about all of his machines and lime stone so that many people across Bangladesh can see his products.So that he can increase his overall sell and profits.

2.2 Objective

In order to achieve this Mr. Habib has come with many requirements in order to get his website from Tetro IT company. This will be discussed in later sections.

2.3 Product Functions

The website has some important functions.

These are given below:

- 1.Creating account .
- 2.Login into account.
- 3.Adding media.
- 4.Searching for media.
- 5.Displaying media
- 6.Reserving media
- 7.Changing interface language: English and Bangla
8. Chat system.
- 9.Backing up data.
- 10.Payment system.
- 11.Skype Extension.
- 12.Add Admin

2.4 User Classes and Characteristics

The website general users and admins:

Most of the general users of the website that means customers across nation are familiar with windows and web based interfaces and interactions.

Users:

The website must be user friendly so that customers and sellers across Bangladesh and abroad can access it very easily

Admins:

System admin is a technical person who has expert knowledge to operate the the website for adding users, managing database, posting all business materials and chatting with customers in case of assistance.

2.5 Constraints

The following are a general list of constraints that would delimit the developer's options while building the website:

1. The system shall be able to use Oracle database.
2. The system shall be able to run on Windows 7.
3. The system must use https certificate.

2.5 Assumptions and Dependencies

Following is a list of the assumptions and dependencies:

1. The website will have a visitor of 150000 users within every month.
2. The users and admins all can access the website through the internet.
3. The website will allow 1000 users at most to access the system without any performance loss

3. Specific requirements

3.1 External requirements

Hardware Interfaces:

There must be a server set up in Mr. Habib's house. He wants to host the server from his home. For this reason he needs :

A full computer which is combination of monitor, cpu, ram, hdd, psu, ups, mouse, keyboard and must have an all time active 10MBPS internet connection with real IP.

Software Interfaces

1. Name: Windows Server 2016

Version No: 2016

Source: Microsoft Corporation

2. Name: Oracle Database

Version No: Oracle 9 maria DB

Source: Oracle

3. Name: Apache xampp

Version No: 2.4

Source: Apache Software Foundation

4. Name: Mozilla firefox

Version No: 50.5

Source: Mozilla organization

5. Name: Windows10

Version No: 2010

Source: Microsoft Corporation

User Interface

User interfaces for all users will be graphical user interfaces (GUI). These GUI will be only web based.

>Admin user

Mr. Habib along with some chosen people will be the main admins who can manage the website from their home server. The admin panel will let every admin to post the machineries and stones all of details. This details include price range, picture and sometimes videos of products. Admin panel will handle all the users known as customers database of all credentials.

>Normal Users

They are known as customers. They can open account or free roam the website. But if they want to purchase any machine or stone via that website they must put their valid information which includes a copy of NID card, their valid phone number, valid home address, name and nationality.

>Seller users

They are known as sellers. Who will connect directly with Mr. Habib to sell their machines and stones to Mr. Habib. They will have a different kind of account system.

Communication Interfaces

1. HTTP protocol for accessing to web server by remote users.
2. TCP/IP protocol for data communication over network.
3. Access method will be carrier sense multiple access collision detected (CSMA/CD).
4. Must have SSL certificate for secure transactions.

3.2 Memory constraints

There are no specific memory constraints.

3.3 Functions and in-depth details of requirements

→ User Interface:

Requirements ID	Functions and Details
Title	Interface
Description	The user interface must be very attractive. Many people from Bangladesh and abroad will visit this website. So the necessary beautified interface.
Identifier/Source	Here is a template that can be used as reference. https://drive.google.com/open?id=0ByVkVFfZDou_cjI4cDdYV25tTTg
Rationale	As the users not only from BD but from many countries so it will have a great impact on Mr. Habib based on the website. So it must be very attractive.
Restrictions and risks	N/A
Dependencies	N/A

→ User Registration and Authentication:

Registration :

Requirements ID	Functions and Details
Title	Registration
Description	All visitors can register and create an account in the website
Identifier/Source	Php Laravel Registration system.
Rationale	There will be two type of accounts. So when registration there will be a drop down menu which will have two options as a buyer or a seller. Both must identify themselves as valid with proper picture

	of them, NID card' s copy,valid phone number and home address and skype contact.
Restrictions and risks	Although so many varification chances there might be a scammer created an account
Dependencies	N/A

Login:

Requirements ID	Functions and Details
Title	Login
Description	Users who created account easily can login if correct email and password given.
Identifier/Source	Php Laravel Login system.
Rationale	N/A
Restrictions and risks	There might be hacking opportunity to enter into another' s account
Dependencies	N/A

Logout:

Requirements ID	Functions and Details
Title	Logout
Description	Users who are logged in can log out easily from their account
Identifier/Source	Php Laravel logout system
Rationale	N/A

Restrictions and risks	N/A
Dependencies	N/A

→ Adding, removing media:

Requirement s ID	Functions and Details
Title	Media
Description	The most important part of this website. It will let admin advertise Mr. Habib' s products.
Identifier/Source	https://drive.google.com/open?id=0ByVkVFfnZDou_cjl4cDdYV25tTTg
Rationale	This website is intended to create to post about various machineries and lime stone. So that customers can choose their desired one. Mr. Habib and his selected admins will post machine and stone images, videos and price .
Restrictions and risks	N/A
Dependencies	N/A

→ Chat System

Requirements ID	Functions and Details
Title	Messenger
Description	Customers and sellers can chat with Mr. Habib for bargaining or any kind of query on machine and stone
Identifier/Source	Facebook messenger system.
Rationale	It is important for buyers and seller to contact with Mr. Habib on any business of stone and machine. So best way is if there is an integrated messenger system.
Restrictions and risks	N/A
Dependencies	N/A

→ Data backup

Requirements ID	Functions and Details
Title	Data backup
Description	Many account information and uploaded media must be backed up.
Identifier/Source	Google drive backup system.
Rationale	N/A
Restrictions and risks	N/A
Dependencies	Huge server system which may cost more than a million taka.

→ Skype Extension

Requirements ID	Functions and Details
Title	Voice over skype
Description	Those who will register must supply a skype contact.
Identifier/Source	Mozilla skype extension.
Rationale	It is best when fall in any problem to talk about it to solve the problem.Mr. Habib can call anyone via skype for his business purpose.
Restrictions and risks	N/A
Dependencies	Skype organization.

→ Transaction

Requirements ID	Functions and Details
Title	Transaction
Description	Buyers who want to buy machine or stone via that website they can do that by their master card or american express.

Identifier/Source	Backpack Payment system.
Rationale	People who want to trade machine online they can do the payment via any national or international debit or credit card.
Restrictions and risks	Theft of card information.
Dependencies	SSL certificate for security

→Add Admin :

Requirements ID	Functions and Details
Title	Add admin
Description	This will be only for Mr. Habib Ahmed. He will choose some admins to run his website for all data backup , customer queries and web management
Identifier/Source	N/A
Rationale	N/A
Restrictions and risks	N/A
Dependencies	N/A

3.4 Design Constraints

There are no design constraints.

3.5 Software System Attributes

3.5.1 Reliability

1. The website should perform its operations and functionalities without any crash.
2. The website should be able to recover from data loss due to system failure etc.

3.5.2 Availability

1. The website will be available at all times, even during the system backups and recoveries.

3.5.3 Security

1. There will be proper user privileges according to the user type i.e. buyer or seller.
2. Users will be able to login into the system only by using his or her email and password.
3. Historical data about members will be saved and secured in the system.

3.5.4 Maintainability

The maintainability will be done by admins selected by Mr. Habib and Tetra IT company.

3.5.5 Portability

1. The website will run its web interface on any operating system that has a web browser installed.

----- **The END** -----