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# **Software Requirements Specification**

**for**

## **Web application for “Weather Insulations”**

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# Table of Contents

<b>Table of Contents</b>	<b>ii</b>
<b>Revision History</b>	<b>ii</b>
<b>1. Introduction</b>	<b>4</b>
1.1 Purpose	4
1.2 Document Conventions	4
1.3 Intended Audience and Reading Suggestions	4
1.4 Product Scope	4
1.5 References	4
<b>2. Overall Description</b>	<b>5</b>
2.1 Product Perspective	4
2.2 Product Functions	5
2.3 User Classes and Characteristics	5
2.4 Operating Environment	5
2.5 Design and Implementation Constraints	6
2.6 User Documentation	6
2.7 Assumptions and Dependencies	6
<b>3. External Interface Requirements</b>	<b>6</b>
3.1 User Interfaces	6
3.2 Hardware Interfaces	6
3.3 Software Interfaces	7
3.4 Communications Interfaces	7
<b>4. System Features</b>	<b>7</b>
4.1 Sign in Page	7
4.2 Login and User account	8
4.3 FAQ and adding threads	9
4.4 Search threads	9
4.5 Contact Us	10
4.6 Facilities	11
<b>5. Other Nonfunctional Requirements</b>	<b>11</b>
5.1 Performance Requirements	11
5.2 Safety Requirements	11
5.3 Security Requirements	12
5.4 Software Quality Attributes	12
5.5 Business Rules	12
<b>6. Other Requirements</b>	<b>12</b>
<b>Appendix A: Glossary</b>	<b>12</b>
<b>Appendix B: Analysis Models</b>	<b>12</b>
<b>Appendix C: To Be Determined List</b>	<b>12</b>

## Revision History

Name	Date	Reason For Changes	Version

# **1. Introduction**

## **1.1 Purpose**

This is a website being built for the company “Weather Insulations.

The users of this website would be:

- 1)Institutions that have waterproofing problems
- 2)Institutions with carpentry requirements.
- 3)Institutions that require painting to be done.

## **1.2 Document Conventions**

NA

## **1.3 Intended Audience and Reading Suggestions**

This is meant for the web-application developing team and our course instructor to read.

## **1.4 Product Scope**

This Web application can in short do the following:

- 1) Register a person
- 2) Has a Facebook/Quora type environment, where a person can post his/her problem and can be replied to by other registered members, particularly the company employees(who can give a good solution).
- 3)Articles on different materials and processes used by the company.

## **1.5 References**

- 1)IEEE tablet
- 2)UML 2.0 manual
- 3)R. S. Pressman Software Engineering , a practitioner’s approach

## 2. Overall Description

### 2.1 Product Perspective

This is a brand new web-application for the company. It is being made from scratch. This is the first ever web-application of this old company.

### 2.2 Product Functions

- There will be a registration page for users. This will take their names, phone numbers, email-ids and a password from them.
- A user can log into their accounts. As soon as they do that they'll return to the home page of the web-application. There will be a notifications symbol on the upper right hand side where a message will come for the following reasons:
  - You had written a query and someone has replied to it.
  - A new article has been published on the web-application

### 2.3 User Classes and Characteristics

#### 1) Unregistered Users

They can view the articles, the about page, home page etc. They cannot post a query.

#### 2) Registered users

They can view all the articles and pages on the web-application. Along with that they can post queries and reply to other queries of other registered users. They will get notifications when their query is replied to.

#### 3) Staff

They can view all queries, reply to them and post articles along with being able to view all pages.

### 2.4 Operating Environment

#### NO SPECIFIC REQUIREMENT"

As it is a web application any fairly recent computer capable of running a web browser would suffice

## 2.5 Design and Implementation Constraints

- 1)Time for development is limited.
- 2)Company will maintain the website after it is made for them
- 3)The application is in built in JavaScript and Markup languages which is not completely an object oriented language and nor a procedural language.

## 2.6 User Documentation

Every user need to undergo an authentication procedure to before asking or answering the queries on the Help Desk tab

## 2.7 Assumptions and Dependencies

bootstrap.css version 4.1.3 for web page styling.

**“WILL BE ADDED LATER”**

# 3. External Interface Requirements

## 3.1 User Interfaces

We are making the website an easy place to understand. All features can be even understood by a lay man. The designing is such that a person will be hooked on to the website.

The user must know the url to use the web application, this url will direct the user to the home page which gives an overview about what does the company provide and reviews from their regular customers. User has a option to navigate to other tabs, which are the facilities tab - which gives detail description of their products, FAQ tab which provide platform to ask and answer questions, About us tab for knowing the companies agenda, Contact us tab gives information about the location and contact details and finally the Gallery tab.

## 3.2 Hardware Interfaces

**“NO SPECIFIC DRIVER REQUIREMENT”**

## 3.3 Software Interfaces

Mongoose - to connect Mongoddb to node.js

Passport.js - for user Authentication  
NodeJS is being used for database connection to the web-application.

### 3.4 Communications Interfaces

To run the web-application we will require a web browser. Thus HTTP is also required.  
TCP/IP protocol

## 4. System Features

### 4.1 Registration Page

#### 4.1.1 Description and Priority

Here a user can register. Registering on this web-application has extra benefits. Thus this feature is of high priority.

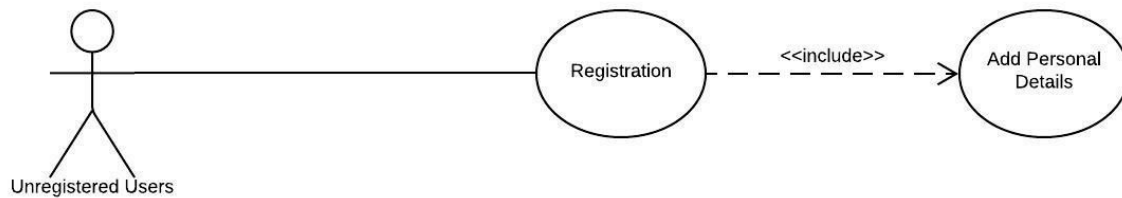
#### 4.1.2 Stimulus/Response Sequences

- 1) On the Home page of the web-application there will be a button on the upper right side that says "Register".
- 2) On clicking on that button, a page will come where the user is supposed to fill in some details.
- 3) At the end of the page, on the right hand side, there will be a button saying "Register". Thus the user will have his/her own account now on the web application.

#### 4.1.3 Functional Requirements

For each step of the stimulus sequence, the following functions are required:  
for

- 1- Go to the Registration page using hyperlink embedded inside the button.
- 2- the details will be:
  - First and Last name: will only accept character elements (required)
  - Phone number: Only integer type
  - Email-id: (string)+@ + WebSite name + domain (required)
  - password: minimum length 6, atleast 1 number (required)
- 3- Add the details to the database



## 4.2 Login and User account

### 4.1.1 Description and Priority

A registered user can log in to their account. This feature allows them to view their notifications(replies to queries and new articles published).

Thus, this feature too is of high priority

### 4.1.2 Stimulus/Response Sequences

1)On pressing the button "Login" on the upper right hand corner of the home page, a page will appear which will ask you for your account email and password.

2)Click on the button "Login" which is present at the lower right hand side.

3)If email and password entered are correct, the home page will open again. But this time on the right upper hand side it will have the following

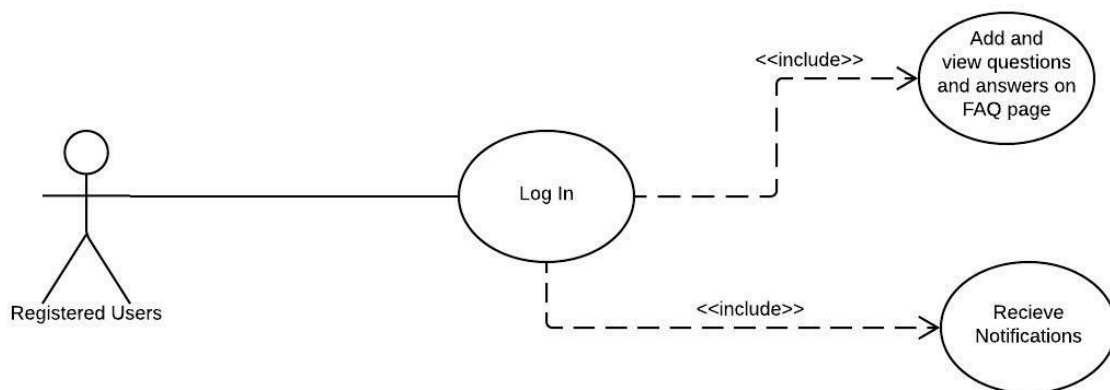
" Welcome username (symbol of notifications) (a drop down arrow: on clicking shows: settings and log out on separate lines)"

### 4.1.3 Functional Requirements

For each step of the stimulus sequence, the following functions are required:  
for

1-Go to the LogIn page using hyperlink embedded inside the button

3-Add the details to the database





## 4.3 FAQ and adding threads

### 4.3.1 Description and Priority

Users those who have logged in will have this facility to ask and answer queries related to the services provided by the company

### 4.3.2 Stimulus/Response Sequences

On clicking the FAQ tab on the home page they will be directed to the FAQ section which will direct the FAQ page which lets the user to view the previously asked questions search box for searching for the threads and another button which lets them ask a question

### 4.3.3 Functional Requirements

- Once on clicking the ask a question button a list pop's up which asks the title of the question and list which lets them pick up a certain predefined tags and the details of the question in the next text box. on clicking the add submit button the details should be added to the database.

## 4.4 Search Threads

### 4.4.1 Description and Priority

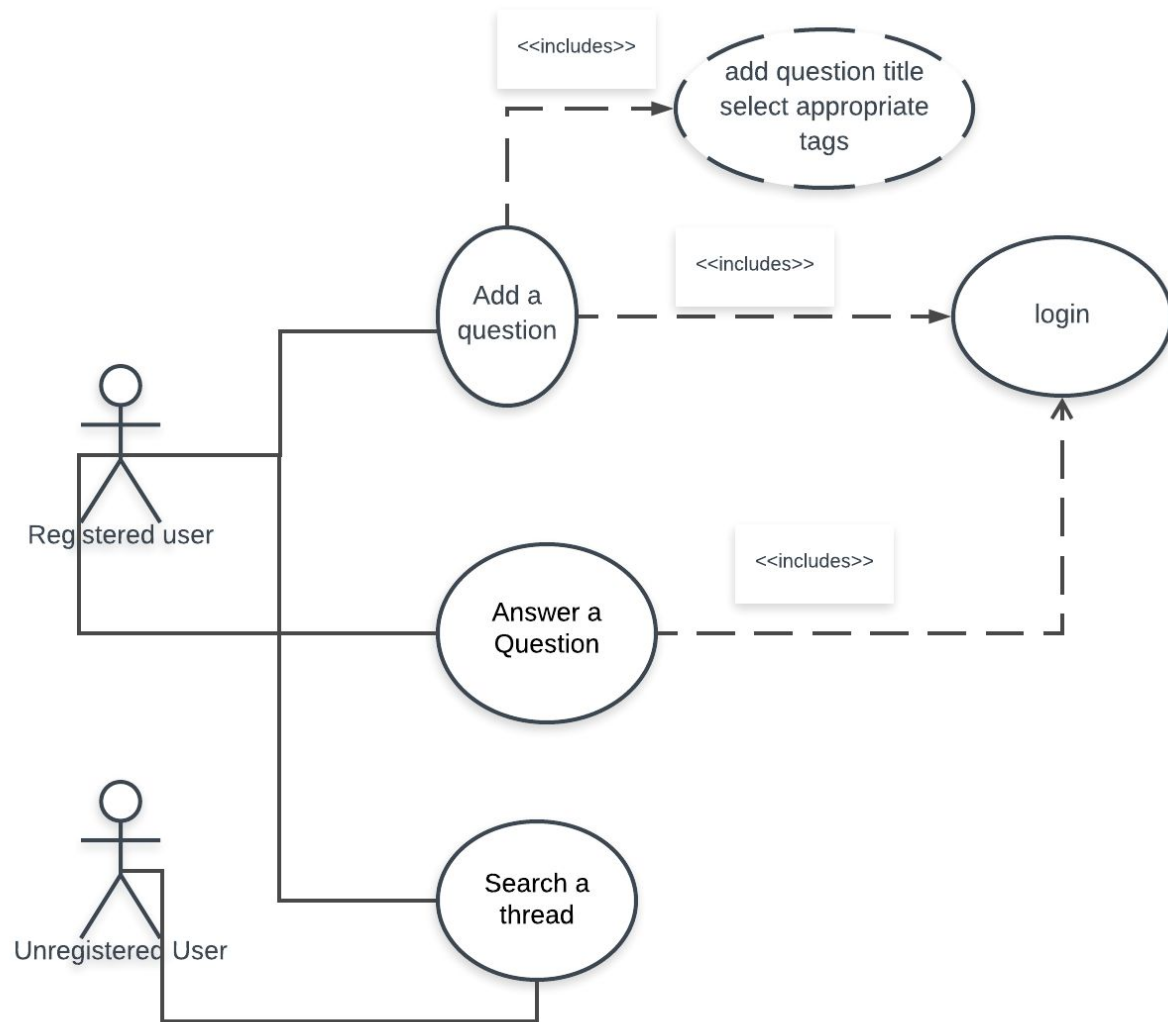
Users those who have logged in will have this facility to ask and answer queries related to the services provided by the company

### 4.4.2 Stimulus/Response Sequences

On clicking the FAQ tab on the home page they will be directed to the FAQ section which will direct the FAQ page which lets the user to view the previously asked questions search box for searching for the threads

### 4.4.3 Functional Requirements

- Search bar search as in two ways firstly it checks if there is a exact match for the question if not it searches for a certain tags in the question in and shows appropriate results.



## 4.5 Contact us Page

### 4.5.1 Description and Priority

- both registered and unregistered users can view this page no specific priority

### 4.5.2 Stimulus/Response Sequences

- On clicking the Contact us tab on the homepage they will be directed to the contact us section.

### 4.5.3 Functional Requirements

- Companies contact information like their post box address and official email id and office landline is provided a google maps image of their location is shown.

## 4.6 Facilities Page

### 4.6.1 Description and Priority

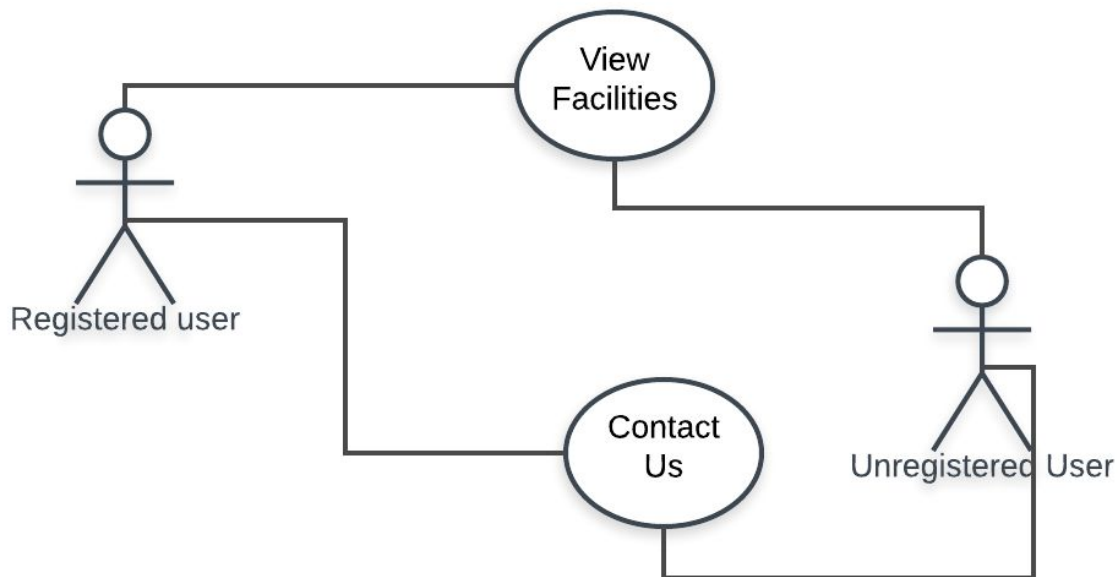
- both registered and unregistered users can view this page no specific priority

### 4.6.2 Stimulus/Response Sequences

- On clicking the facilities tab on the homepage they will be directed to the section.

### 4.6.3 Functional Requirements

- Companies product and service information is provided here this a static page which is less often modified by the admin.



## 5. Other Nonfunctional Requirements

### 5.1 Performance Requirements

As we are deploying the hosting the web application with unlimited bandwidth performance might not be the problem even if many user visit the website at the same time.

“NOT YET TESTED”

### 5.2 Safety Requirements

Passport.js is widely accepted authentication tool is not an issue

### 5.3 Security Requirements

“NOT YET DECIDED”

### 5.4 Software Quality Attributes

“NOT YET DECIDED”

### 5.5 Business Rules

“NOT YET DECIDED”

## 6. Other Requirements

<Define any other requirements not covered elsewhere in the SRS. This might include database requirements, internationalization requirements, legal requirements, reuse objectives for the project, and so on. Add any new sections that are pertinent to the project.>

## Appendix A: Glossary

<Define all the terms necessary to properly interpret the SRS, including acronyms and abbreviations. You may wish to build a separate glossary that spans multiple projects or the entire organization, and just include terms specific to a single project in each SRS.>

## Appendix B: Analysis Models

<Optionally, include any pertinent analysis models, such as data flow diagrams, class diagrams, state-transition diagrams, or entity-relationship diagrams.>

## **Appendix C: To Be Determined List**

<Collect a numbered list of the TBD (to be determined) references that remain in the SRS so they can be tracked to closure.>