Software Requirements Specification

for

Web-application for the company "Weather Insulations"

Version 1.0 approved

Prepared by Hridaya Annuncio

NIIT University
Software Engineering course project

5th September 2018

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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

1)There will be a registration page for users. This will take their names, phone numbers, email-Ids and a password from them.
2) 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:

a)You had written a query and someone has replied to it.
b)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.They are included in Registered Users.

2.4 Operating Environment

On all internet browsers.

2.5 Design and Implementation Constraints

1)Time for development is limited.
2)Company will maintain the website after it is made for them

2.6 User Documentation

NA

2.7 Assumptions and Dependencies

NA

3. External Interface Requirements

3.1 User Interfaces

HTML, CSS and JavaScript are being used to make the web-application user-interactive and user-friendly.

3.2 Hardware Interfaces

NA

3.3 Software Interfaces

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.

4. System Features

4.1 Registration Page

4.1.1 Description and Priority

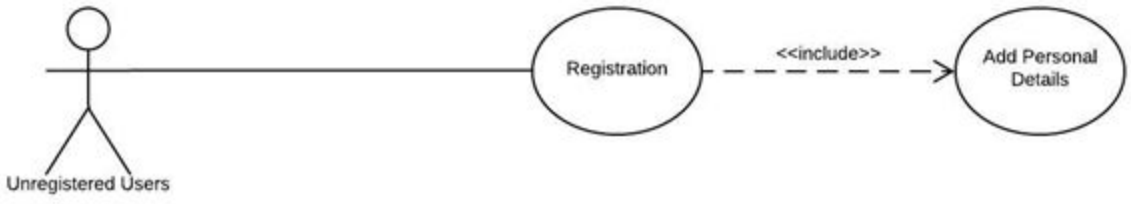
Here a user can register. Registering on this web-application has extra benefits. Thus this feature is of high priority.

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 Log In and User account

4.2.1 Description and Priority

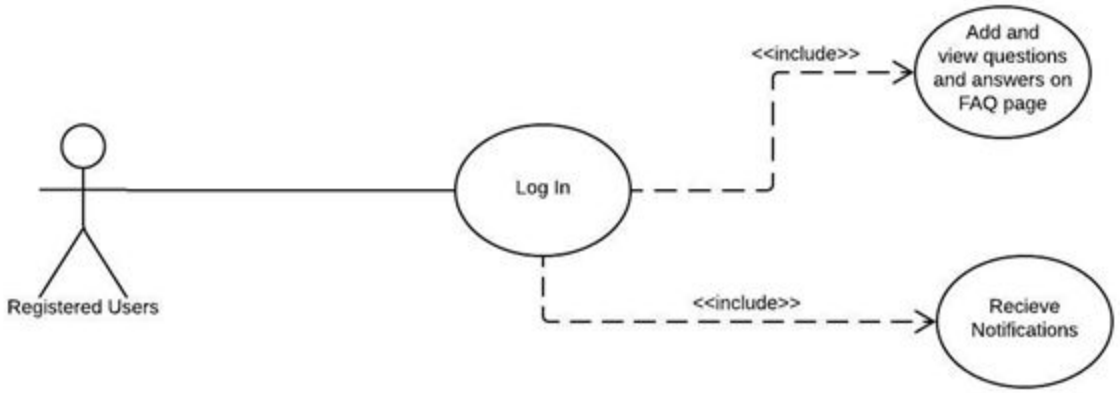
A registered user can log in to their account. This feature allows them to view their notifications(replies to queries and new articles published).
Thus, this feature too is of high priority

4.2.2 Stimulus/Response Sequences

1)On pressing the button "Log In" 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 "Log In" 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)"

4.2.3 Functional Requirements

For each step of the stimulus sequence, the following functions are required:
for
1-Go to the Log In page using hyperlink embedded inside the button.
2-
3-Add the details to the database



4.3 FAQ page

4.3.1 Description and Priority

Here Registered users can ask questions. And people from the company as well as other registered users can answer. When answers are given, the user who asked the question will get a notification regarding it. Registered as well as unregistered users can view questions and their answers put up by others too. Only registered users can answer questions.

4.3.2 Stimulus/Response Sequences

1)Go to the FAQ page.

To add a question

2) Click on "add Question" which is down at the centre.
3) A dialog box will appear . Type your question in it.
4)Press on "ADD".
5)The question will be posted

To answer a question

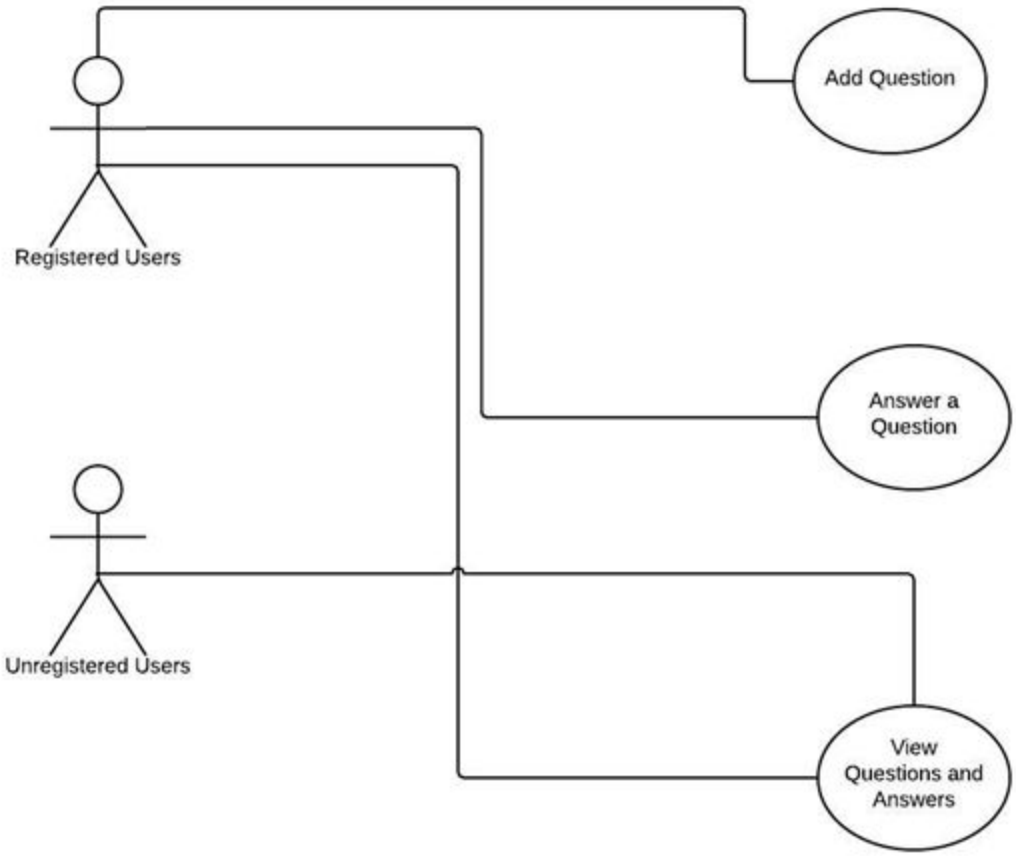
2) On a question that is displayed on the FAQ page, under the question there'll be an "ADD Answer" button. Click that.
3) Type answer in the dialog box that appears.
4)Click on "ADD"
5) The answer will be posted.

To view questions

2)Just scroll down the page.

4.3.1 Functional Requirements

In both, adding a question as well as adding an answer for a question, any character is allowed.



5. Other Nonfunctional Requirements

5.1 Performance Requirements

<If there are performance requirements for the product under various circumstances, state them here and explain their rationale, to help the developers understand the intent and make suitable design choices. Specify the timing relationships for real time systems. Make such requirements as specific as possible. You may need to state performance requirements for individual functional requirements or features.>

5.2 Safety Requirements

<Specify those requirements that are concerned with possible loss, damage, or harm that could result from the use of the product. Define any safeguards or actions that must be taken, as well as actions that must be prevented. Refer to any external policies or regulations that state safety issues that affect the product's design or use. Define any safety certifications that must be satisfied.>

5.3 Security Requirements

<Specify any requirements regarding security or privacy issues surrounding use of the product or protection of the data used or created by the product. Define any user identity authentication requirements. Refer to any external policies or regulations containing security issues that affect the product. Define any security or privacy certifications that must be satisfied.>

5.4 Software Quality Attributes

<Specify any additional quality characteristics for the product that will be important to either the customers or the developers. Some to consider are: adaptability, availability, correctness, flexibility, interoperability, maintainability, portability, reliability, reusability, robustness, testability, and usability. Write these to be specific, quantitative, and verifiable when possible. At the least, clarify the relative preferences for various attributes, such as ease of use over ease of learning.>

5.5 Business Rules

<List any operating principles about the product, such as which individuals or roles can perform which functions under specific circumstances. These are not functional requirements in themselves, but they may imply certain functional requirements to enforce the rules.>

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.>