



Software Requirements Specification

for
DEMO-CRITIC

Prepared by

Team 14

| | Name | SRN |
|---|-----------------------------|---------------|
| 1 | Pranav G Hipparagi | PES2UG20CS534 |
| 2 | Ranjith S R | PES2UG20CS538 |
| 3 | Kushal V Palankar | PES2UG20CS581 |
| 4 | Nagaraj Gopalkrishna Hebbar | PES2UG20CS525 |

Revisions

| Version | Primary Author(s) | Description of Version | Date Completed |
|---------|--|--|----------------|
| 1.0 | Ranjith Pranav Kushal Nagaraj | The final version of the SRS document has been drafted with all the requirements being incorporated into the document. | 12/09/2022 |

Table:1

Introduction

1.1 Document Purpose

This document is provided in order to ensure that the software that the development team produces will be consistent with the needs of all customers. It is a description and elaboration of the project requirements that the development team has been provided with. Stating these requirements explicitly helps ensure that any potential miscommunications are dealt with at an early stage, when the cost of implementing changes is still low. Customers are encouraged to distribute this document among their potential users and management in order to provide us with feedback. This will help the development team ensure that the end product fully meets all needs. This document will also be a useful resource for those who will be upgrading or maintaining the software after it has been completed Q

1.2 Product Scope

The development team arrived at the information contained in the original version

of this document by examining the original project description in an individual and group setting, by conducting research on the web and in libraries and by discussing the system.

Many updates have already been made to this document in order to make it more

readable. Some changes have also been incorporated into the requirements

themselves, as a result of the response to the original requirements document.

Further updates to this document could occur if this project is explored further in

the future.

This document makes use of several terms in very narrowly defined ways. The reader is referred to the glossary at the end of this documents if he or she encounters a word that seems confusing. The first occurrences of all words in the glossary are italicized in the text, except in cases where the text itself defines them explicitly.

1.3 Intended Audience and Document Overview

1.3.1 Intended Audience:

This document is primarily intended for the:

- Developers of this software
- Software engineers who would work on further development of the project
- The professors who would review the document and finally,
- Clients that is novice or professional event managers, volunteers.

1.3.2 Document Overview:

Demo-critic is web application which helps people in posting public concerns or problems faced by them in everyday life. This system can be used to know all the problems in a particular area and how fast the concerned people are reacting those issues

In this system a person does not have to go to any authority or any other office to express their concerns, all they need to do is to take a picture of that issue and post it using their account, tag all the concerned people and provide a brief description about the problem. Several people in remote area are staying in remote areas won't be able to travel, through this platform they will be able to reach out concerned public

1.5 Document Conventions

Formatting Conventions:

- The font style for the headings of each section is Arial Bold and the font size is 18.
- The font style for the headings under each section is Arial Bold and the font size used is 14.
- For the remainder of the document, the font style is Arial and the font size is maintained at 11.
- Italics has been used to indicate comments.
- The text is single spaced and margins are maintained at 1" separation.

1.6 References and Acknowledgments

1.6.1 References:

- <https://www.w3schools.com/>
- <https://www.youtube.com/>
- [Other reference](#)

1.6.2 Acknowledgments:

We would like to thank Komal Ma'am, Sudeepa Roy Ma'am for giving knowledge and sharing their experiences of working in the field. We have gained a lot from their valuable input. A special mention to Suraj B Alagwadi for advising us about the different frameworks available and helping us decide the framework most suited for the software,"Demo-Critic".

2. Overall Description

2.1 Product Perspective

Demo-critic is web application which helps people in posting public concerns or problems faced by them in everyday life. This system can be used to know all the problems in a particular area and how fast the concerned people are reacting those

issues. In this system a person does not have to go to any authority or any other office to express their concerns, all they need to do is to take a picture of that issue and post it using their account, tag all the concerned people and provide a brief description about the problem. Several people in remote area are staying in remote areas won't be able to travel, through this platform they will be able to reach out concerned public

From the user's perspective

- user can raise complaints
- he can also search for complaints in a particular areas
- as well as complaints regarding a particular department

2.2 Product Functionality

- User can create an account to post complaints through login, registration
- User can create and uploading concerns
- User can like or dislike posts
- User can browse through posts
- User can search for a particular concern using some tag, place or name of the complaint.
- One can view all the complaint posted by a user.

2.4 Operating Environment

The software will be designed to work on any version of Windows, Linux (kernel 2.7 and above) and Mac platform. The software is completely web based and runs on popular web browsers namely firefox, chrome, internet explorer (IE8 and above). These web browsers are preferred since they support HTML.

2.5 Design and Implementation Constraints

We have to design different pages including a home page as well as page which shows in detail about the complain and where other people can post comments .The implementation part is yet to be done. But, we have a clear picture as to how our pages would look. The communication protocol will be http. There are a number of tools which can be used for its implementation. There can be as many users we just need to enhance our database as the users increase.

2.6 Assumptions and Dependencies

Assumptions

The user is familiar with internet and web based software like social networking sites.
The browsers which the user is using is either Google Chrome 10.0 and above or Mozilla Firefox 4.0 and above.

3. Specific Requirements

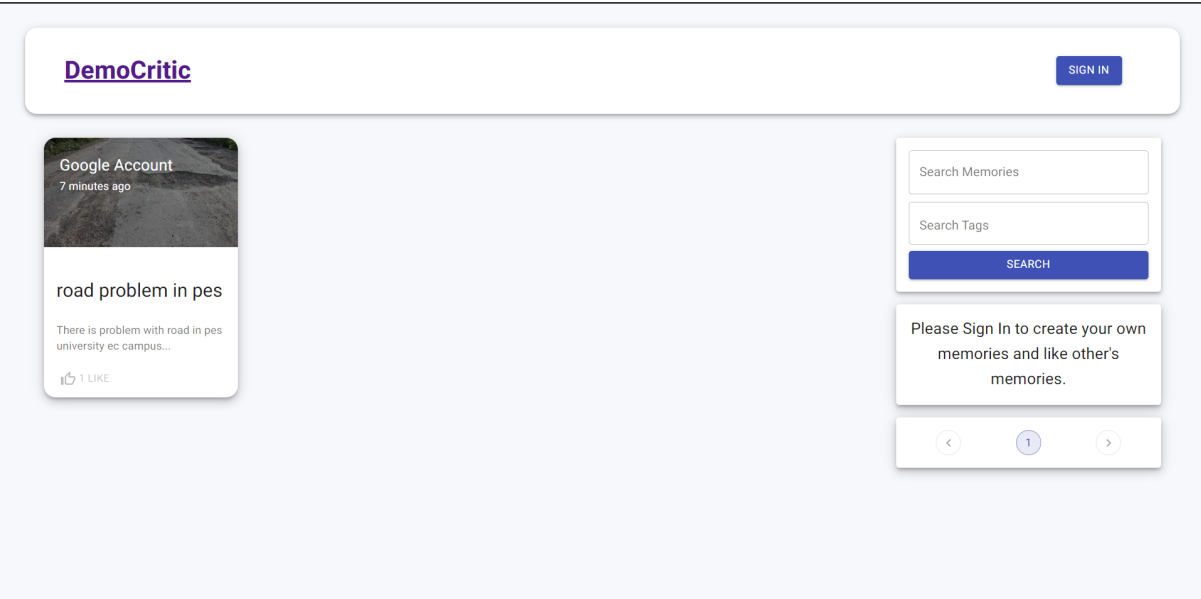
3.1. External Interface Requirements

3.1.1. User Interfaces

The user interface design is simple and clear. One can very easily post the public complaints he/she is facing with, and the concerned person can solve or look over his/her posts on the homepage. In this software, Demo - Critic an individual can create a new account to get access to the website and can post the complaints they are concerned with. The view is different for all the actors. For public its to post their complaints, for concerned people or organization the post is problem to be solved .

Sample Screenshots:

Home page



Sign-In page



Sign in




SIGN IN

 GOOGLE SIGN IN

DON'T HAVE AN ACCOUNT? SIGN UP

Signup




Sign up

First Name *


Last Name *

Email Address *

Password * 

Repeat Password *

SIGN UP

 GOOGLE SIGN IN

ALREADY HAVE AN ACCOUNT? SIGN IN

Fig 3.1.1 (b)

3.1.2. Hardware Interfaces

Not applicable.

3.1.3. Software Interfaces

The software is operating system independent. It would run on Linux, Windows and Mac.

3.1.4. Communications Interfaces

this software is compatible with desktop or laptop using any web browser

3.2. Functional Requirements

- User can create an account to post complaints through login, registration
- User can create and uploading concerns
- User can like or dislike posts
- User can browse through posts
- User can search for a particular concern using some tag,place or name of the complaint.
- One can view all the complaint posted by a user

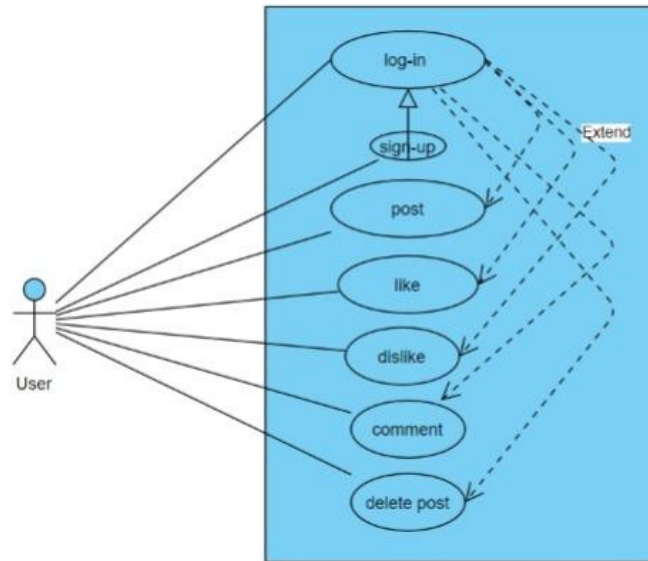
3.3. Behavior Requirements

3.3.1 Use Case View

As we can see in this diagram a user gets to login or register once he has logged in he can start posting complaints he gets to comment on others posts as well as upvote or downvote certain posts based on their opinions.j he can also search for complaints in a particular area as well as complaints regarding a particular department

All the events would have to proceed with a Login. The other events are self-explanatory as shown in the use case diagram.

Fig 3.3.1 (a)



4. Other Non-functional Requirements

4.1. Performance Requirements

- Any complaint registered will be immediately posted on the website
- there will be no delay in the comments posted by different user

4.2. Safety and Security Requirements

- The user has to login using the secure OpenID.
- only the user who has posted the complaint can delete that post.
- A log file about server activity must be maintained for better crash recovery and security.

4.3. Software Quality Attributes

The software will be built using mern, where we are going to use mongodb as database and react for front end and node and express.js as backend .Since the business logic, presentation layer and database layer are 3 independent entities bound by together by application logic it is easy to add more features in the future.

Due to its popularity there are a lot of resources to work on mern stack and lot of people with lot of knowledge about these technologies thus making the task of maintenance more effective and easy.

5. Feasibility study:

A series of interviews with event managers were held to gather their requirements and to gauge if the software, “DemoCritic” is feasible to implement.

Technical feasibility:

For the implementation of the software, “democritic”, the technical resources needed were estimated.

The current solution to the software was decided based on

- The complexity of the technical resources needed.
- The manpower needed to implement the project.
- Team member's prior experience with the technology.
- Ease of learning the implementation tool that is MERN STACK.
- The limited time constraint empowered by mern which is specialized for agile development.