The Partition History

Software Requirements Specification

Version 1.0
24/1/2019

Kalpit Kothari

Abhijeet Singh Yadav

Malisetty Karthik

Vamshi

Prepared for

CS 258 Software Engineering

Spring 2019

Revision History

Date	Description	Comments
24/1/2019	Initial Version	

Document Approval

The following Software Requirements Specification has been accepted and approved by the following:

Signature	Printed Name	Title	Date

Contents

1. Introduction

This document is a software requirement specification(SRS) for the web portal for the partition project. This project is regarding the development of interactive web portal for digitization of change in lives of people and their culture and language due to the relocation of their homes in time of partition. The website is supposed to be a collaborative platform for people to submit their analysis, vlogs, and audio of places they visit in vicinity of the border area.

1.1 Purpose

This document is to specify the complete description of the web portal for the partition project. It is an agreement between client and developer about the product to be developed. Through this document, the workload needed for development, validation, and verification will ease. This document will describe functionality, interface, dependencies, performance and design constraints of the web portal to be developed. Therefore, the intended reader group for the software requirement specification as the client and the users.

1.2 Scope

This project is intended to create an interactive web portal for portraying life and experience of people who suffered relocation due to the partition of the nation. There is no proper web portal with compiled and plausible interface with experience of people in the form of vlogs, articles, pictures, cultural and linguistic changes with time. With the use of GIS mapping for directing the user to a compiled version of all the posts of chosen region.

1.3 Definitions, Acronyms, and Abbreviations

- **GIS**: Geographic information system - It is a system designed to capture, store, manipulate, analyse, manage and present spatial or geographic data.

- **Admin**: Administrator of the website

1.4 References

- https://in.1947partitionarchive.org/
- http://www.indianmemoryproject.com/tag/partition/
- https://mittalsouthasiainstitute.harvard.edu/oral-histories-project/
- https://livesofthefirstworldwar.org/
- http://www.thememoryproject.com/stories/WWI
- http://www.westboroughk12.org/cms/One.aspx?portalId=35937&pageId=890017

1.5 Overview

We are going to focus on describing the system concerning product perspective, product functions, assumptions and dependencies in the following document. Additionally, user requirements for performance and ease of navigation will be enclosed.

2. General Description

This section gives background information about specific requirements of the web portal service to be developed, in brief. Although we will not describe every requirement in detail, this section will describe the factors that affect the final product.

2.1 Product Perspective

This web portal is eventually intended for the user with curiosity and appreciation of the history of the partition. A user is not required to register on the website for accessing the information. However, if a user desires to contribute to the website, they need to register. The articles will be stored on the main server while videos will be embedded from youtube.

From the user point of view, he/she will be able to access the content in view mode only, and they will be able to comment, upvote/downvote a post and give suggestions to the author.

A collaborator will be able to upload, edit and delete their content. The article will be posted only after approval of the moderator.

A little number of web portal are based on this concept of digitization of history of World War, French revolution and partition(links are provided in reference).

2.2 Product Functions

Functions are provided to a user, collaborator, and moderator. The user is provided with a function to choose posts based on village through GIS maps, all posts will be shown once a post is chosen and vlogs, audios, pictures, and data can be viewed, a user can comment, upvote and address the author for a suggestion. A collaborator can upload vlogs, audio, pictures, and data after signing up. Moderator is a collaborator whose upvotes are above a threshold; their duty is to approve blog of a collaborator before being posted.

2.3 User Characteristics

This web portal is eventually intended for the user with curiosity and appreciation of the history of the partition. An easy to use interface is incorporated, and there will be a help section to guide through a user.

2.4 General Constraints And Dependencies

Since the website will be hosted on a centralized main server, appropriate software needs to be pre-installed, and enough space for storage of content is required.

Required softwares are:

- Python
- Flask
- Flask-Assets
- SQLAlchemy
- HTML+Bootstrap/CSS

The end user accessing the website the recommended system requirements are:

- Windows XP or newer
- Android 4.0+
- iOS 7.0+
- macOS 10.7+
- Chrome 38
- Firefox 33
- Safari 7.0+

3. Specific Requirements

With this section and later, we will describe the requirements of the software in detail. We will categorize requirements in the following sections, which are namely external interface requirements, functional requirements, and non-functional requirements.

3.1 External Interface Requirements

The Web portal will be the main Graphical User Interface for the users. Through the website, a user will be able to access the content. Additionally, moderators and the Admin will have some elevated privileges (that will be discussed in the next sub-section).

3.2 Functional Requirements

A detailed structure of the various pages with their functionalities has been discussed below.

3.2.1. Home Page

Use Case Name:	Home Page
Priority	Essential
Basic Features	1. GIS map which is used for selection of a region for related posts. 2. To navigate to various pages namely about. 3. Login form for collaborators. 4. Reference links to related websites 5. Suggested posts are displayed on the bottom part.

3.2.2. List of posts Page

Use Case Name:	list_of_posts
Priority	Essential
Basic Features	1. List of posts related to region chosen is shown 2. Upvotes associated with each post are displayed. 3. List can be sorted by means of upvotes or time.

3.2.3. Post Page

Use Case Name:	post
Priority	Essential
Basic Features	1. Quick navigation to a sub-section of post is provided 2. Videos, pictures, and text can be viewed along with 'About the Author''

	section.
	3. A comment section is provided for readers.
	4. Author can be suggested something by tagging them in comment section.

3.2.4. About Page

Use Case Name:	about
Priority	Essential
Basic Features	1. Introduction to the website
	2. Contact details are provided
	3. Basic guide for usage is provided.

3.2.5. Resources Page

Use Case Name:	resources
Priority	Essential
Basic Features	All important links regarding the cause have been listed here.

3.2.6. Sign in/Sign up Page

Use Case Name:	Sign in/Sign up
Priority	Essential
Basic Features	1. A user can sign up to collaborate after reading and accepting terms and conditions.
	2. Collaborator can sign in.
	3. An option for "Forgot Password"

	is provided.

3.2.7. Make a Post Page

Use Case Name:	Make_a_post
Priority	Essential
Basic Features	Easy and intuitive interface for making a post, along with links of YouTube videos by the author. A plagiarism check will be performed before sending the post for approval.

3.2.8. Dashboard Page

Use Case Name:	Dashboard
Priority	Moderate
Basic Features	A collaborator's dashboard will have various tools for uploading and managing the posts. They can edit their profile here. All the suggestions will be notified to collaborator here. A moderator's dashboard other than collaborator's dashboard will have a section for approving posts of other collaborators. An Admin's dashboard other than moderator's dashboard will have a section to modify the eligibility of qualifying for moderator and blacklist a collaborator/moderator. Admin can flag a post for reapproval.

3.2.9. Profile Page

Use Case Name:	profile
Priority	low

Basic Features	The profile of a collaborator can be viewed here. They can view their total upvote count and all his previous posts.

3.3 Non-Functional Requirements

In this section, last group of the requirements which is non-functional requirements will be explained in detail. Non-functional requirements include performance requirements, and portability requirements.

3.3.1 Performance Requirements

Since this software is going to web –based, it does require a powerful server machine with high band internet access. The server should use the system resources efficiently.

The system must be interactive and the delays involved must be less .So in every action-response of the system, there are no immediate delays.

The end user should not experience any delays while accessing the website.

3.3.2 Portability Requirements

The website will be optimized for various platforms including Windows, Mac, Android and iOS given the system satisfies the recommended system requirements in Section 2.4.

3.4 Logical Database Requirements

Database will be used to store user credentials and store information of the posts.

Post
- **post_id**
- post_date
- author
- isApproved
- file_name
- upvotes_count
- downvotes_count
- comments_file

Collaborator
- **username**
- name
- isModerator
- isAdmin
- upvotes
- password_hash