Software Requirements Specification Template

BRICK FINDER

Software Requirements Specification

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Submitted in partial fulfilment

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**UNIT 1: INTRODUCTION**

* 1. **Purpose**

The purpose of the project is to help a donor search for his/her brick location in the Hughes Field House.

* 1. **Scope**

The scope of the project is:

* Save the time of the donor.
* Locate the maps that points to the exact zone number.
  1. **Definitions, Acronyms, and Abbreviations**

**Visual Studio code:** Visual Studio Code is a source-code editor developed by Microsoft for Windows, Linux and macOS. It includes support for debugging, embedded Git control, syntax highlighting, intelligent code completion, snippets, and code refactoring.

**Bootstrap:** It is a library we used to make the page responsive.

**Data Folder**: It has the Excel sheet from where we are reading the data.

**Lib Folder:** It has all the libraries that are generated automatically when we push the code in to the Gthub repo.

**Img Folder:** It has all the images that we are using in the project.

* 1. **References**

*Visual Studio code developer documentation*. (2019). Retrieved from:

<https://code.visualstudio.com/docs>

* 1. **Overview**

The Brick Finder system will help the donor search for the location by entering either the name or inscription in the text field. Once the donor clicks on the search button, they will see a couple of rows with the matching results. They can find their name and by clicking on that particular row they will see a map with the respective zone number on it and also a brick/paver with inscription on it. Also, if the donor wants to print the page they can print it by clicking on the print button which will appear on the page.

**Unit 2: GENERAL DESCRIPTION**

* 1. **Product Perspective**

* 1. **Product Functions**

**2.3User Characteristics**

* 1. **General Constraints**

**2.5 Assumptions and Dependencies**

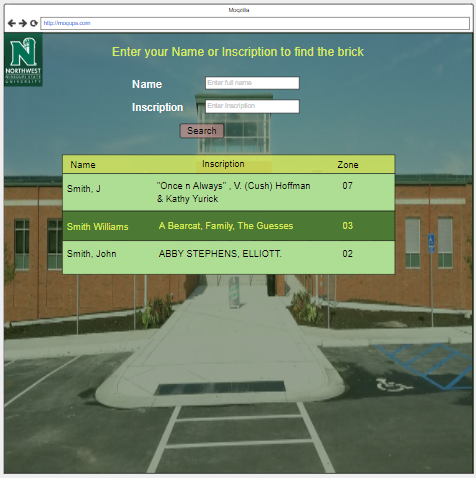
**Unit 3. SPECIFIC REQUIREMENTS**

* 1. **External Interface Requirements** 
     1. **User Interfaces**

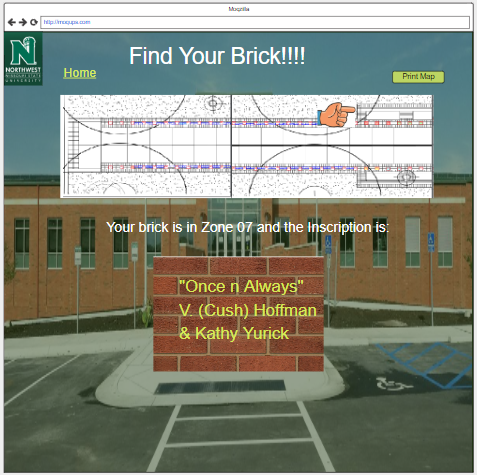
User interfaces used in this project are mentioned below, Search screen, and Map Screen. We also made the web page responsive so that it looks good even on a Mobile.

**Web Site:**

Search Screen:

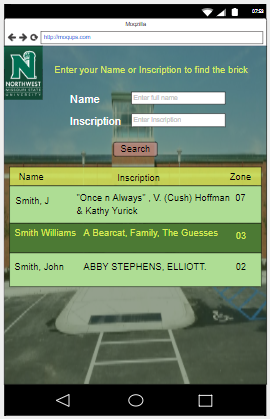
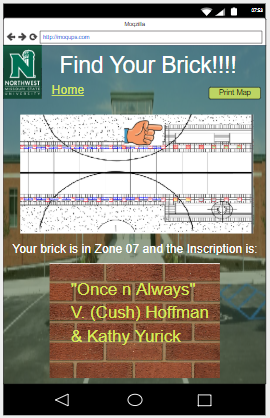


Map Screen:



**Mobile site**

Search screen: Map screen:

* + 1. **Hardware Interfaces**

Our hardware interfaces are iPhone, iPad, MacBook, Mac Pro, Android devices. Memory should be GB. Operating system using is Windows. Processor is 2.3GHz dual-core Intel Core i5 7th Generation.

* + 1. **Software Interfaces**

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**3.1.4 Communications Interface**

**Google Docs, sheets and slides:**

Google Docs, sheets and slides lends itself to collaborative projects in which multiple authors work together in real time from geographically diverse locations. All participants can see who made specific document changes and when those alterations were done. Because documents are stored online and can also be stored on users' computers, there is no risk of total data loss as a result of a localized catastrophe. However, the Internet-based nature of Google Docs, sheets and slides has given rise to concerns among some authors that their work may not be private or secure.

We use this for creating project documents, sheets and slides for presentation. It is reliable for team-work.

**Share Point:**

SharePoint is a web-based collaborative platform that integrates with Microsoft Office. Launched in 2001, SharePoint is primarily sold as a document management and storage system, but the product is highly configurable, and usage varies substantially between organizations.

We use share point to work with team on same platform as Microsoft word.

**Outlook:**

It is Microsoft e-mail service. We use outlook to send and receive mails. Used to contact team members.

* 1. **Functional Requirements**
     1. **User Modules**

1. Search

The donor should be able enter the name or inscription and should be able to search their bricks/pavers.

1. Map

The donor should be able to view the map with respective zones by clicking on any of the search results.

1. Print

Donor should be able to print the page that has the map and the image of a brick/paver with inscription on it.

**3.5 Non-Functional Requirements**

**3.5.1. Performance**

This is to check the speed of the page that means how fast the page is responding to the actions. Generally, every action should not take more than 20 seconds to respond. In this application,the user should not feel any delay in response when he performed the series of action through the page.

**3.5.2. Reliability**

Reliability is the percentage of time that the page works correctly without any failures and to deliver the results properly. For our page it is the amount of time the page can run process of searching the information based on the input given and displaying the results. It should be 99 percentage in general.

**3.5.3. Availability**

Availability means the provider systems should meet the agreed availability targets like giving the exact maps with zone appropriate zone numbers on it.

**3.5.4. Security**

Client permitted us to use a public repository to the Excel data, as there is no much detailed information about the donors, like the address, phone number etc. so, there are no security issues in making the data public.

* + 1. **Portability**

Portability checks for whether the web page works on both the browser and the mobile. Our page works on both and we used bootstrap library to make the page responsive, so the user can open our page from a browser as well as mobile.

* 1. **Inverse Requirements**

Inverse requirements state the requirements what the system will not do. It describes the constraints on allowable behavior. In most of the cases, it is easier to state that certain behavior must never occur than to state requirements guaranteeing acceptable behavior in all circumstances. It depends mostly on the client.