

Software Requirements Specification

for

CraftingWizards

Version 1.0

Prepared by

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Date: 10/25/19

Contents

Introduction	4
Document Purpose	4
Product Scope	4
Intended Audience and Document Overview	4
Definitions, Acronyms and Abbreviations	4
Document Conventions	5
References and Acknowledgments	5
Overall Description	6
Product Perspective	6
Product Functionality	6
Users and Characteristics	7
Operating Environment	7
Design and Implementation Constraints	8
User Documentation	8
Assumptions and Dependencies	8
Specific Requirements	9
External Interface Requirements	9
User Interfaces	9
Hardware Interfaces	9
Software Interfaces	9
Communications Interfaces	9
Functional Requirements	9
Behaviour Requirements	9
Use Case View	9
Other Non-functional Requirements	11
Performance Requirements	11
Safety and Security Requirements	11
Software Quality Attributes	11
Availability	11
Correctness	11
Maintainability	11
Portability	11

Usability	11
Other Requirements	12
Appendix A – Data Dictionary	13
Appendix B - Group Log	14

Revisions

Version	Primary Author(s)	Description of Version	Date Completed
Rough Draft 1	Katherine A. Cederdahl Rebekah Rolfe	Information about the revision. This table does not need to be filled in whenever a document is touched, only when the version is being upgraded.	10/25/19

1 Introduction

CraftingWizards is a website that provides a list of craft ideas, with a list of materials and instructions for each craft. Also a page on suggestions for new craft ideas. There will also be links to stores where you can buy the materials and related coupons /discounts. there will also be a create a shopping list function. The purpose of this site is to provide people with ideas and instruction on how to create their own take on the crafts provided.

1.1 Document Purpose

This project will be a website possibly written using php, JavaScript, and Python 3 and will be providing people with the information needed to create crafts. Php or JavaScript will be the website base. The search algorithm will be in python3, along with the sorting and arranging of the links in an order of most popular or most related to the search.

1.2 Product Scope

The scope of this project is to create a crafting website with multiple crafts as well as links to the cheapest best product of an item needed. also to create a list of selected items. This will give creative people new ideas for crafts, as well as help them get the product they need without looking for it themselves. The website will also provide some coupons that will help purchase products needed. The website will also include fun programming art stuff, like drawing.

1.3 Intended Audience and Document Overview

The intended client audience are programmers, crafters, people with imaginations and a desire to create the design in their heads and the professor. The rest of this SRS document contains information about how the website/system will be run. This includes a list of things we expect to have it working with, as well as it's functionality. To read this document, start with the overview, then move on to overall description while referring back to section 1.4 for definitions and acronyms if needed. If you are a client, just refer to sections 2.6 and 3.1.3.

1.4 Definitions, Acronyms and Abbreviations

- Amazon Prime - a monthly/yearly paid service with Amazon to get free 2-day shipping and streaming services
- Bugs - an unexpected default, fault, flaw, or imperfection
- Embed - To insert into a computer document
- GIF - Graphic Interchange Format
- IDE - Integrated Development Environment
- Knack - a special ready capacity that is hard to analyze or teach
- Pseudo - Being apparently rather than actually stated
- SRS - Software Requirements Specification

1.5 Document Conventions

This document uses Arial font size 11. It is also being single spaced with 1" margins. The section and subsection titles follow a general SRS template given to us by our professor. The headings are done with heading 1, then heading 2, then heading 3. References follow the IEEE Citation Style Guide.

1.6 References and Acknowledgments

"Amazon." Internet: <https://www.amazon.com>, 2019 [Oct. 21, 2019].

"Amazon Prime." Internet: https://www.amazon.com/amazonprime?_encoding=UTF8&sr=53-1, 2019 [Oct. 21, 2019].

"Google." Internet: <https://www.google.com/>, 2019 [Oct 25, 2019].

"Pinterest." Internet: <https://www.pinterest.com>, 2019 [Oct. 21, 2019].

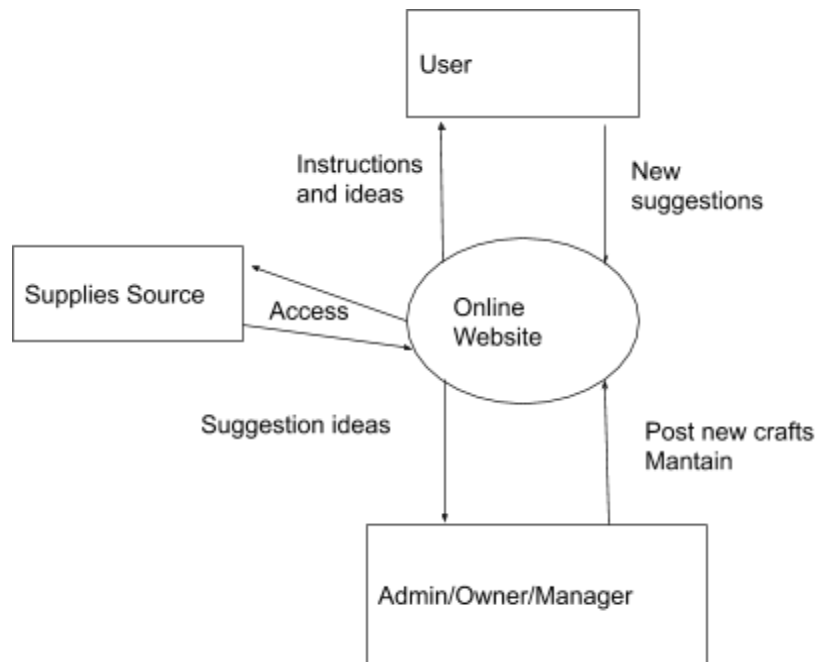
Merriam-Webster Inc. "Merriam-Webster." Internet: <https://www.merriam-webster.com>, 2019 [Oct. 21, 2019].

"Yummly." Internet: <https://www.yummly.com>, 2019 [Oct. 23, 2019].

2 Overall Description

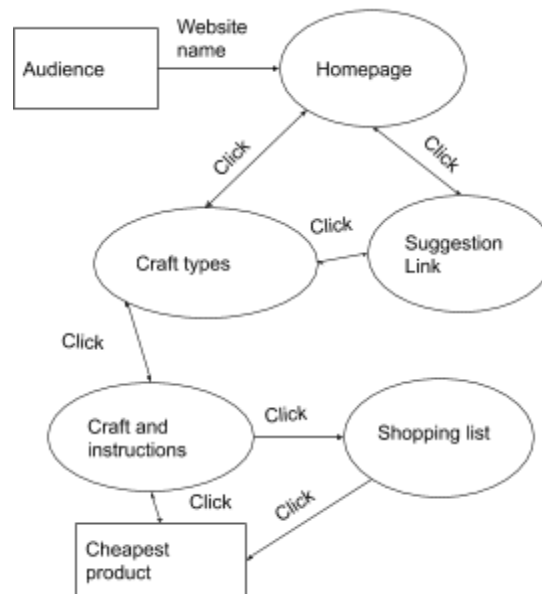
2.1 Product Perspective

This product will be similar to Pinterest in a way, but with no need for a login and instead of each person posting their own stuff, they'll suggest through an embedded Google Forms a suggestion for the admins/owners of the page can sort through and post appropriately. Also, some links will refer to an outside source, such as Amazon in order to get the cheapest supply product for that craft. Some links will refer to coupons, if possible, to get discounts on crafting supplies. it will also have a shopping list similar to Yummly where they can list all of the items they need to get for the craft.



2.2 Product Functionality

- Starting Page/ Homepage
- Suggestion link page to a google form
- Coupon possibilities
- Links to different crafts/craft types
- Links to a different pseudo code
- Shopping list page

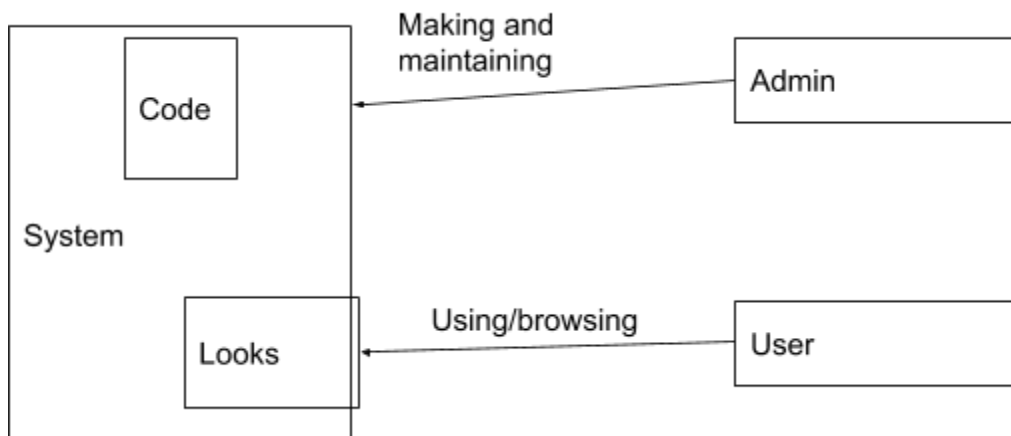


2.3 Users and Characteristics

It is expected that people with a knack for crafting will refer to our website to craft a new product for fun. This also includes people who might want to spend their free time coding something fun that could be useful later. It could be expected that if people were looking for wizards that this website would pop up. It is not expected that people who aren't looking for crafting ideas to end up on our website.

2.4 Operating Environment

Minimum platform requirements so far are just able to access the internet of a web browser. The web browser will most likely also need to be able to run javascript. The website will be coded on macOS system and tested on both macOS version 10.15 and Ubuntu version 19.04.



2.5 Design and Implementation Constraints

The constraints for this project are the memory requirements, and properly accessing outside websites for product links. There is also access to other websites to get the cheapest product, especially with Amazon since some of the products are Amazon Prime shipping and users may not pay for Prime. There is also the possibility of looking for sales at different stores. The customer will just have to make sure that their hardware and software are up to date.

2.6 User Documentation

Throughout the website, there will be instructions on how to do a craft. This may also include quick tutorial videos or pictures to better understand what is being done. For the pseudocode, there will be instructions on how to get the correct language to code it in, as well as suggestions to what IDE to use to type it in. Also included will be a contact button for online help or bugs that a user can report.

2.7 Assumptions and Dependencies

- Links won't go invalid for products
- Products won't be sold out
- The loading gif works every time between pages
- Shopping list will work
- The code will be properly formatted

3 Specific Requirements

3.1 External Interface Requirements

3.1.1 User Interfaces

The user will be able to navigate 3 or 4 different page links in the beginning. They will then be able to click 1 of many different links that are craft links based on what they clicked previously. The top will remain the same throughout each page, which slight variations based on what section you are looking at. there will also be buttons to click to add to another page.

3.1.2 Hardware Interfaces

The hope is the website will be supported on any device. It will start out with being able to work on a desktop/computer with the code, then going from there to make it phone friendly. *More will be added as the code is implemented.*

3.1.3 Software Interfaces

The website should be able to run on Windows, Linux, or macOS as it will be accessed via Chrome, Safari, or whatever the user prefers. Although, the website will be created through the operating system macOS version 10.15 using JavaScript and Python 3.

3.1.4 Communications Interfaces

Users will be able to access the website on any web browser, as well as some sort of internet connection. The code may or may not be encrypted. For the suggestions page, the users may have to allow another web page to be opened to access the Google forms, if we don't have it embedded properly. If they need to contact us directly, we will provide an option to contact us and email us.

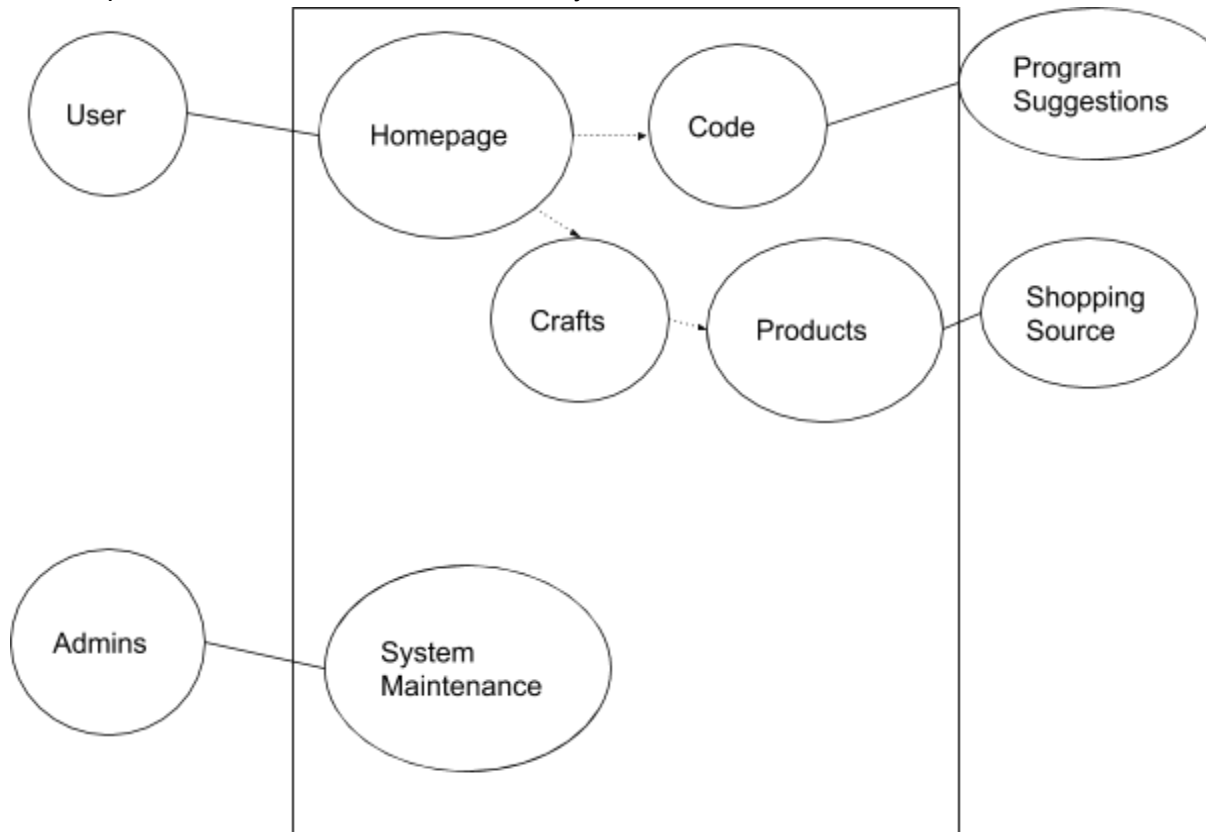
3.2 Functional Requirements

Currently, the only functions that have been thought of are that hyperlinks will be needed to be embedded. It will also have to run audio and video. Buttons will also be implemented to create a bulleted list for them to shop with if the user wishes. A gif will need to run from a Python program to load between pages.

3.3 Behaviour Requirements

3.3.1 Use Case View

Homepage includes ways to go to codes or crafts as well as products. Users will start on the homepage and can end up either at programming language suggestions to code in or shopping source for products. Admins will maintain the system.



4 Other Non-functional Requirements

4.1 Performance Requirements

1. Loading a new page won't take more than a minute and less than 10 seconds
2. Links for products will be up to date hourly
3. Will follow what the professor requests (when given more information)

4.2 Safety and Security Requirements

- Links to outside sources won't give bad malware, so the sources will be well-known
- Users may remain anonymous when giving suggestions (could also just give a last name, or first initial with last name)

4.3 Software Quality Attributes

4.3.1 Availability

The site will be available on any device with internet in the future. For now, it'll be available by running given JavaScript code.

4.3.2 Correctness

The code will be in the proper coding style for JavaScript, Php, and Python.

4.3.3 Maintainability

The maintainability will be achievable to those that can read code. Only the developers will have access to changing and updating the website.

4.3.4 Portability

The website will be available on any device from computer to phone in the future. For now, it can only be run on a computer with JavaScript.

4.3.5 Usability

The software will be mainly read only with hyperlinks to other sites. Users will be able to click between links to access different parts of the website. Developers/admins of the website that can access the code will be able to see and read the code easily.

5 Other Requirements

Nothing special yet.

Appendix A – Data Dictionary

[illegible]

Appendix B - Group Log

Monday October 7th 2-4pm

- Figured out what project we are doing
- Drew out a design logo for our website as well as figured out a name for it
 - Rebekah drew the logo using python's turtle
- Listed what we needed ideas for what to do on the website
- Briefly wrote some of the SRS document

Wednesday October 16th 12:20- 3pm

- Worked on this SRS

Wednesday October 23rd 1-4pm

- Worked on this SRS