



Business Requirements Document

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Document History

Date	Version	Changes
9/10/2021	0.1	Develop Outline of Doc

Definitions (take out if not needed)

Term	Definition

References

Title	Description/Link

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Introduction

Purpose

The purpose of our website is to give users an immersive experience when looking for a hands-on activity to work on. Rather than recommending users projects that are arbitrary in practice and/or based on popularity, our website is geared towards personalizing the user interface through a simple questionnaire. Our customized algorithm will provide an intuitive environment where the user can develop, progress, and mature their current skill sets, or look to acquire new skills based on their personality.

Audience

The leading audience of this website would be beginner to professional hobbyists with tools at their disposal that seek to progress their physical crafting skills through personalized project recommendations. Age-wise, the target audience would be adults who are 18 and older to decrease liability issues within the website application.

Timeline

Describe the chronological order in which tasks for the project will be operated according to the scrum methodology (talk about each milestone in detail).

Project Summary

Project Scope

Will cover the scope of our website -> what the website will include

The website will be region locked to the United States of America and will be supporting American English only. The website will only support the latest Chrome version as of 05/20/22 and will not support beta versions. Our website is based on the tools a user has, so the website will display all measurements in metric units, but will also offer imperial conversions.

Personalization Formula

Go over how the website will find projects specifically for each user

Our personalization formula is based off of the mandatory questionnaire that every user must complete when creating an account. The user inputs the tools available to them and then they enter in their skills along with the skill sets that they are interested in. We gave the most weight to tools, with a weight of 2, while both the user interest and the skillset are given an equal weight value of 1. Skills will have levels based on what the user inputs so we can recommend them projects that are feasible. Skill interests will then have a secondary scaling of 1-3 based on how interest there is from the user.

Order of Filtering

1. Project recommendations will first filter out any required tools the user doesn't have.
2. It will then filter out the projects based on the skills and skill level the user has on that specific expertise.
3. Lastly, it will filter in projects that the user is interested in, but will be of low skill level if the user states that they do not have the skill set.

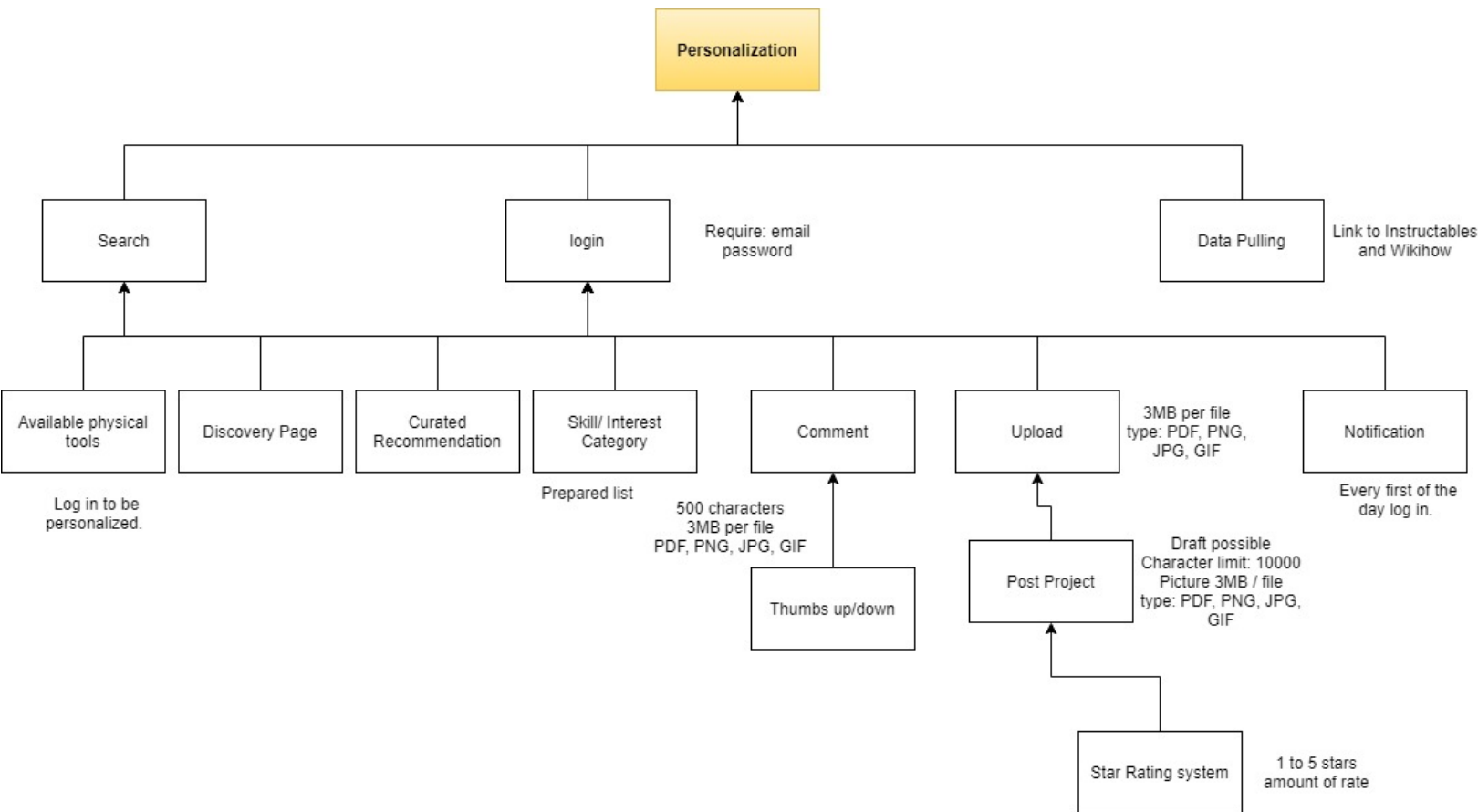
Out of Scope

Will cover what is out of our scope -> what website will not include

Our website will not:

- Have any monetization or product recommendations.
- Support Software/coding related projects or skill sets.
- Support languages other than American English.
- Support the ASCII-Extended table, only the original 127 characters.
- Support professional level projects that require licensing to complete.
- Have an email system to recommend projects or give notifications to our users.
- Be supporting direct messaging between users.

Decision Tree



Website Requirements

Priority Key

Make a table where priority is from 1-5 and describes the extent of each priority. 1 will be very important, while 5 will be the least important.

Priority	Value	Description of Level
1	Must	This requirement must be done and is the foundation of the project.
2	High	This requirement is needed and holds a significant role in the project as a whole.
3	Medium	This requirement is good to have

4	Low	This requirement is side features that could beautify the project or accentuate higher priority requirements.
5	Expansion	These requirements are expansion points which can be implemented in the future after the SDLC.

Functional Requirements

Will be the bulk of the document showcasing numerous functional requirements. Functional tends to refer to "I have to be able to do this"

- Usually more open-ended
- Leaves room for the developer to decide how they can *best* satisfy the requirement
- E.g. "a functional requirement could be email notifications"
 - Client responds "I want the notification to be made of only text (no images etc.)"
- The developer can interpret
- Regarding BRD - its hard to determine which requirements have rules/constraints and which ones don't
 - Important that you **don't** include implementation details
 - UNLESS the client explicitly asks for it
 - Gives room for the developer to determine what the best way to implement the requirement
 - Goal of BRD - when you read this BRD, you shouldn't need to get any additional clarification of requirements from the client

Priority	Description	Rationale
<i>Priority Level</i>	<i>Description of Requirement</i>	<i>Why do we need this requirement?</i>

Non-Functional Requirements

Non-functional tends to refer to "it has to run at least this fast." No 2FA

- Determine the quality of the product
- "how can you grade the quality of its behavior"
 - E.g. take a function called upload
 - The non-functional requirement is that the feature is
 - Fast
 - Accurate
 - Because all these requirements show that the feature is working well (is of **quality**)
 - The functional requirements for this example would be things like:
 - How many files can I upload at a time
 - Can I upload JPEG/PDF's etc.
- Once you know your non-functional requirements, you need to find a way to quantify them
 - Secure
 - Fast - I want uploads to happen in <3seconds
 - Accurate - I want uploads to be accurate in their format/byte/etc
- Quantifying metrics must clearly show a domain or set of acceptable values
 - E.g. instead of "uploads must be done in 3 seconds" it should be "uploads must be done in up to 3 seconds maximum"

Storage

Explain how user data will be stored and used throughout website

- Our website will store email addresses from our users for login functionality.
- Our website will also store user preferences from the questionnaire.
- Our website will also save project ratings and comments.

Business Case (maybe not needed)

Policies and Guidelines

System Requirements

Barebones of tech spec and what is required in order to run the website

Browser Compatibility

Explain which browser our website supports and will be liable for

We will support the latest Chrome Version as of 05/20/22.

Security

Explain what security protocols will be implemented for user data

We will be implementing an SSL certificate for HTTPS.

Passwords will have restrictions for special characters, numbers, and uppercase letters.

Error Handling

Look at different ways to handle errors such as inputting chinese characters into search bar

We will not stop users from inputting what they like into our search box, but it will try to find the closest match. If illegal characters are found, then we will not initiate the search at all. If a user tries to post a project with illegal characters, then it will not go through and will be saved as a draft instead with the reason displayed. If a user tries to upload an image larger than the 5MB limit, then it will be converted to jpg if it is not already one. If it is a jpg file and is over the size limit, then it will be rejected and inform the user. If a user doesn't select anything from the questionnaire then they will not be allowed to proceed to the next question until they select at least one item.

- Empty search box or illegal character
- Illegal characters will trigger error
- Oversize images will be convert to JPG, otherwise decline
- Empty or incorrect user name or pass upon logging in
 - Not proceed and inform user
- Empty project Title or body
 - Will not post, will inform user to type in the correct fields (at least 1 character)
- Empty comment or illegal characters in the comment
 - Will not post, will then inform the user
- If post body or title or comment is over the character limit
 - When the user tries to publish, they will be informed by how many characters they're over
- If our database goes down and the user is trying to post or search:
 - Display an error message with the "nyan cat" gif
 - Save option, if not saved, good luck
- If our website goes down
 - 404 error will be displayed

Content Management

Where and how content will be managed (maybe using draw.io to map out design)

Logging/Registration

How and what will be shown during registration

A form with details asking the user to input their desired username and password twice.

Passwords will have restrictions for special characters, numbers, and uppercase letters.

Login/Logout

Steps to login and logout, along with the functional/non functional requirements of doing so

From the homepage, users will be able to find the login button on the top right. It will redirect them to the login page where they can also create an account if they are a new user. They will enter their email address and password to login.

If the user is already logged in, then the top right will change to a “Logout” button instead and will prompt the user to confirm before fully logging them out.

- Security questions for password recovery

User Experience

Explain various experiences user will have

- Links in the search bar, will be treated as plaintext
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