

1702201 project proposal

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Online shop product finder and stock counter

Research Proposal

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1702201

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1. Introduction

This project is taking on a problem most end users want and need more of, information. This project intends to allow end users to query where products are located, what the product information is such but not limited to: calories, height and weight; how many products are inside the store and lastly adding creating a shopping list.

There will be two views to the website, view one will be of the customer and view two will be of staff. The customer view has already been stated above, view two for the staff member will allow staff to scan the barcode of the product, state how many are currently on the shelf and if the product is new where the product is in store.

This project will enhance customer ability when browsing a store online by means of finding products faster, ascertain information regarding product information and product quantity in store. This can provide key information to the end user giving them the ability to decide prior to attending the store what they intend to get.

This project will only need the end user to have access to the internet and to have a mobile phone or computer. The website is going to be designed around all age groups on multiple devices with the intention of as little popup boxes for actions.

Deliverables

2. Background to the Proposed Research

After reviewing the ethical concerns, this project will use fake data on the website it will make for user accounts. Feedback from participants will be anonymous as there is no necessity to note any names. Feedback will consist of design, font, wording, text input and other.

This project is based on website development with core elements very familiar to the researcher however, some aspects like barcodes and mapping is something that is not familiar to the researcher which might be difficult to implement.

3. Aims & Objectives

3.1. Aims

3.1.1. Design

Design of the website will be researched into clarifying a template that is appropriate to use for customers/participants using the website.

3.1.2. Coding libraries

To enable development of the website, libraries for code should be used to speed up development and ensure the outcome of each transaction can be expected.

3.1.3. Coding language

The coding language and environment will require research and a decision into what will be used, these being for software like XAMPP and Docker.

3.1.4. Web Server

A basic web server will need to be selected from the array available to host the site being developed.

3.1.5. Web domain

For ease of access, a website domain should be looked into to assist customers/participants when using the site to navigate to it.

3.1.6. Feedback structure

Feedback itself should be available however the questions asked should be a necessity so customers/participants do not feel that submitting feedback is too much.

3.2. Objectives

3.2.1. Basic functionality

It is expected that basic functionality is gained for the website within one or one and a half months to enable the project to develop through feedback from customers.

3.2.2. Hostable site

Having the website online on a third party domain that is live constantly is necessary as it will allow participants to browse and then submit feedback on their experience outside the need of the researcher being present.

3.2.3. Feedback

Feedback will be a main pillar in this research to collect and then identify features strengths and weaknesses, implementation of new features and amendments of designs.

3.3. Review of A/O

This project will find a web hosting platform to house the website, it will decide on a coding environment from XAMPP and Docker, it will then gather a frontend framework for design, a web domain will be sought, basic functionality will be made on the site with feedback form following towards the end of phase one.

Then, throughout phase two which is after/during January, a process of amending the site with submitted feedback from participants/customers will be committed.

4. Project Design

4.1 Outline of Project Process

The targeted audience for this project is for persons of all ranges that are eighteen and over. The development process will list the basic functions of the website, required functions and desirable functions.

A basic design will be presented to the user at first, with opportunities for the user to provide anonymous feedback. Feedback will be gathered using Google forms or verbal feedback to the researcher, this verbal feedback will then be written up. Feedback will be available from first instance when the website is live until a certain point, likely March 2023.

It is expected basic functionality which will include the following from a customer view: searching for products, adding to shopping list, locating products on store map, product information; will be available as a requirement. Desirable features such as: logging in, price information and other; would be ideal however not required.

The above is expected to be completed by January 2023 at the latest, from that point onwards customer feedback will be available with redesigns completed during this time. It is expected that customer feedback will be completed throughout January until March.

From a staff view, the required features to be completed by January 2023 will include: scanning barcodes, inputting product locations, inputting amount of products on shelf; with desirables features being: logging in, inputting prices and other;

4.2 Data Collection

Collection of data will be handled by Google forms for feedback, other forms of collecting data will be from the staff view when they add products to the stock and customers adding items to their shopping list.

No other collection of data will be gathered, this includes anything identifiable such as I.P addresses.

4.3 Data Evaluation

Data will be presented in the final report, this data will be collected from the feedback when customers use the website. This report will evaluate customer satisfaction between versions assessing changes made during versions.

4.4 Risks & Limitations

Risk wise, there is not anything foreseeable to be expected, this includes anything physical or digital. This project does not require any physical activities and all digital data is fake and product information is publically accessible.

Limiting factors will be customers using the website and customers providing feedback.

4.5 Ethical Issues

From the above, no data used in this application will be live, all data will be fake and no collection of information from the user browsing the site will be collected.

5. Resources & Planning

5.1 Resources Required

5.1.1 Hardware Resources

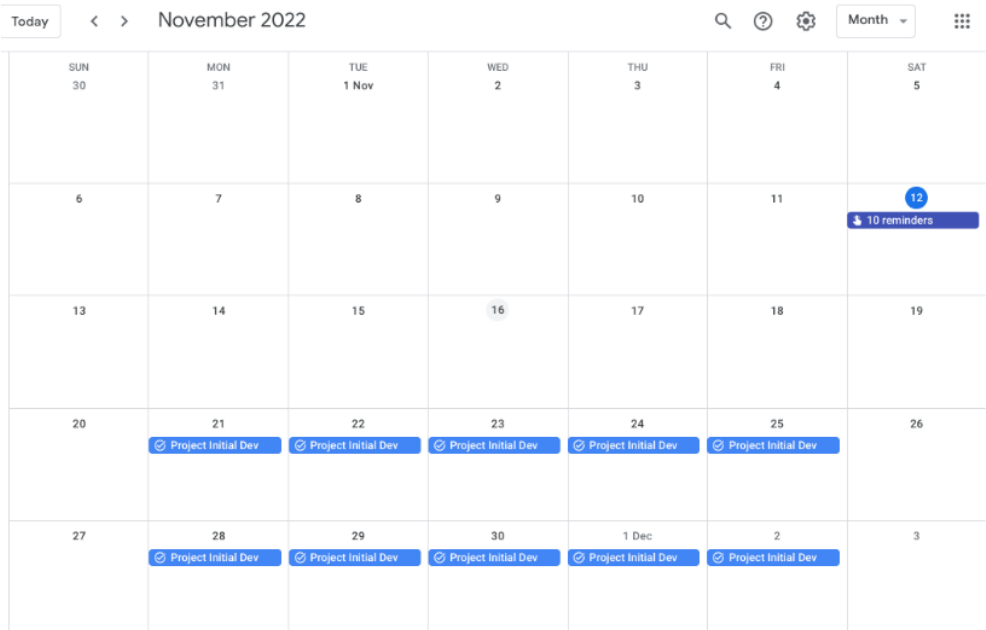
A computer or mobile device will be required to view the website with internet access. This website will be responsive for all devices and data sharing between the server and end device will be assessed to save data devices required to save on data.

5.1.2 Software Resources

Software that will be required for end users will be a web browser of any kind. For the researcher, they will be using freeware, a decision between XAMPP and Docker will be chosen to run and host the website with VS Code for the development environment.

5.2 Planning Chart

A plan of where the stages of development will occur has been listed below.



Today

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December 2022

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Month

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SUN 27	MON 28 Project Initial Dev	TUE 29 Project Initial Dev	WED 30 Project Initial Dev	THU 1 Dec Project Initial Dev	FRI 2 Project Initial Dev	SAT 3
4	5 Project Initial Dev	6 Project Initial Dev	7 Project Initial Dev	8 Project Initial Dev	9 Project Initial Dev	10
11	12 Project Initial Dev	13 Project Initial Dev	14 Project Initial Dev	15 Project Initial Dev	16 Project Initial Dev	17
18	19 Project Initial Dev	20 Project Initial Dev	21 Project Initial Dev	22 Project Initial Dev	23 Project Initial Dev	24
25	26 Project Initial Dev	27 Project Initial Dev	28 Project Initial Dev	29 Project Initial Dev	30 Project Initial Dev	31

Today

< >

January 2023

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⚙️

Month

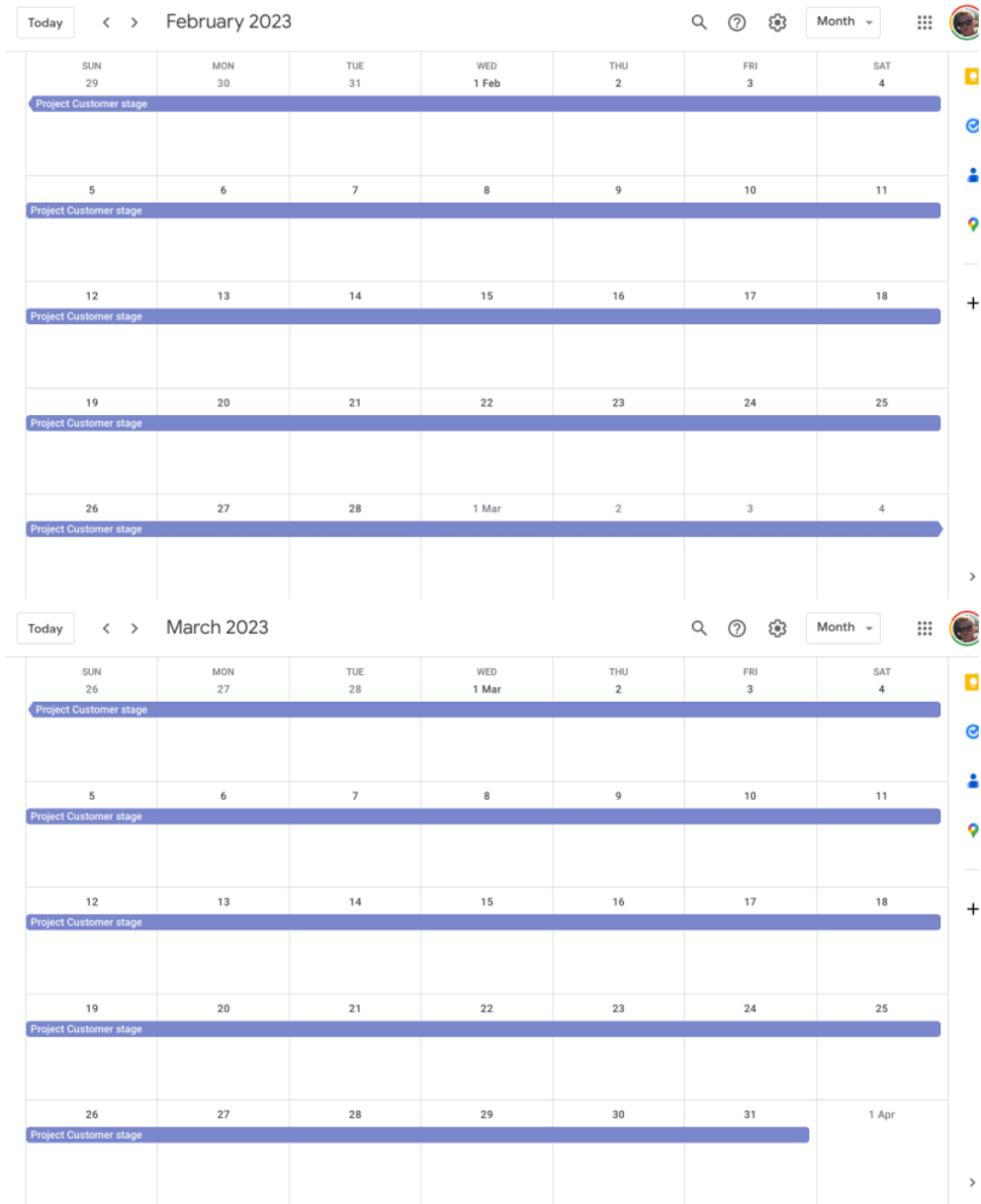
⋮

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SUN 1 Jan	MON 2	TUE 3	WED 4	THU 5	FRI 6	SAT 7
Project Customer stage						
8	9	10	11	12	13	14
Project Customer stage						
15	16	17	18	19	20	21
Project Customer stage						
22	23	24	25	26	27	28
Project Customer stage						
29	30	31	1 Feb	2	3	4
Project Customer stage						

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1702201 project proposal

GRADEMARK REPORT

FINAL GRADE

GENERAL COMMENTS

58/100

Instructor

Intro / A&O (400 words)		
Project title; Identification of a specific problem to be investigated; Well-defined aims and SMART objectives; Explaining why this project is worth doing; Discussion of what the project needs to do in order to be a success; Description any deliverables that will be produced at the end of the project A bit too much detail about design in the introduction, need more about what the problem is and why the project is necessary (rather than the detail of how you will accomplish it) Your aims and objectives are not correct – you should state what the overall aim is, and then 4-5 objectives on how you will accomplish your aim. You have got too much detail about software etc here. This should be in your Design section	20	11
Background to the Project / Literature Review (400 words)		
Description of how the work to be done by in the project relates to the work identified in the literature review; Discussion of any ethical issues raised by the project Identifying what has already been done within the field; Topic familiarity; Brief literature review using appropriate sources – 6-8 journal papers and book chapters	20	7

apters rather than just websites; Se lection of relevant models & concep ts Only a paragraph shown in this sec tion, needs a brief literature review. No references included.		
Project Design (500 words)		
Clear statement of which developm ent methods are to be used and wh y they are appropriate; Clear state ment of which tools are to be used and why they are appropriate; Clea r description of how data collected will be analysed A lot stronger here, you seem to ha ve a good idea of the direction of th e project. You need to think about f ormal methodologies eg agile etc fo r your development method. Please do not use Google forms – u nder GDPR the University's policy is to use Microsoft forms (hosted in E urope rather than the US) – we can talk about this in supervision meeti ngs.	30	22
Resources / Planning (200 words)		
List of any deliverables; Clear diagr am showing both timing and resour	15	9

ce use; Completed ethics form; Limited and relevant appendices Timescale of start November and end January is too soon for the implementation – you need to make sure that you have reviewed everything available in the area (literature review) and got a good set of requirements before doing your full implementation, backed up by your research. You need to be able to justify decisions taken – maybe you want to have a focus group/short survey for users to draw out their experiences of supermarket shopping and what they want in a new system?		
Document Presentation		
Correct spelling, grammar and punctuation; Flow of narrative/fluency; Coherence; Word processed ; Correct use of referencing with bibliography; Strict word limit Overall I'd say you know what you're doing for design/implementation, but you need more on the academic background to the work. Remember, this is not an implementation project only, it is a 40 credit academic project.	15	9
TOTAL	100	58

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