

Project charter

Food waste management



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# Abstract

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# Introduction

In a world where the statistics of food waste are extremely high, we want to help to reduce this waste of food. With our combined skills and dedication, we want to create a website where people can connect with each other and share to food they have left.

As a team of three passionate developers, we are excited to create a solution: the Food Waste Management Website.

we see an opportunity to make a meaningful impact issue of food waste through innovative website. This will be a website where individuals, businesses, and communities can connect and share food, ensuring that no food goes to waste.

# Business case

**1.Identify the problem.**

Over the years food wasting has increased significantly. According to the statistics in the EU, over 58 million tons of food waste are generated annually, with an associated market values estimated at 32 billion euros. Eurostat roughly estimates that around 10% of food made available to EU consumers may be wasted. At the same time, over 37 million people cannot afford a quality meal every second day.

**2.Need or opportunity**

The FoodWaste Management project presents an opportunity to utilize technology to solve this problem. By providing a user-friendly platform for food donation and community engagement, we can bring people together to contribute to reducing food waste and addressing food insecurity

* Using technology: With this project we aim to use the technology by creating a website where people can easily donate their surplus of food. By doing this, will be easier for the people to get involved in reducing food waste.
* Bring people together: This project it's not just about donating food. We also want to bring people together. By connecting online, we can share ideas and support each other in reducing food waste and helping those who are struggling with food insecurity

**3. Expected benefits and outcomes:**

* **Reduce of Food Waste**: We want to make it easy for people and businesses to give away extra food. This way, we can stop a lot of food from going to waste.
* **Food Security:** By giving away the surplus of food to those who need it, we can make sure that the people from our communities don’t face food insecurity
* **Creating a community:** We want our platform to be the place where people support each other by sharing meal planning tips and ideas and working together to reduce food waste.
* **Protect the Environment:** Less food thrown away also means less waste in landfills and less harm to our planet.

# Approach

The approach will encompass various stages, including research, development, testing, and deployment. By following a systematic and comprehensive approach, we aim to create an effective and user-friendly application that will contribute to reducing food waste on a larger scale.

1. Research:

To ensure that our food waste application meets the needs and expectations of its users, thorough research will be conducted. This will involve studying existing food waste management practices, analyzing user preferences and behaviors, and identifying technological solutions that can be integrated into the application.

1. Design and Development:

Based on the research findings, a team of experienced designers and developers will collaborate to create the food waste application.. Throughout this stage, regular feedback from the team and coaches will ensure that the application aligns with their needs and expectations.

1. Testing and Iteration:

Once the initial version of the food waste application is developed, it will undergo rigorous testing to identify and address any bugs, glitches, or usability issues. Feedback from these tests will be used to refine and enhance the application, ensuring that it performs optimally and delivers a seamless user experience.

1. (Scrum):

We are using a Scrum-like approach, for our team. So we meet every week for a meeting to plan the upcoming week. We also divide our tasks, to efficiently finish them.

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# Scope

The scope of the Food Waste Management Website encompasses the development, implementation. The project aims to provide a centralized hub helps individuals and organizations to reduce food waste through practical solutions.

1. Website Features:

* Design and implement interactive tools and features, including a social aspect like messaging and a friend function.
* Integrate donation help users to donate surplus food and reduce food in their communities.

2. Technology Infrastructure:

* Build a robust and scalable website architecture using modern web development technologies to ensure a good user experience.
* A way to verify users either a donator or receiver.

3. Project Management:

* Establish project milestones, and deliverables to ensure timely completion and launch of the website.
* Assign roles and responsibilities to project team members.

4. Maintenance:

After the project has been completed, we will not be maintaining this website. We will also not provide a manual or training.

# Deliverables

In the deliverables chapter of a project charter for a food waste application, you will describe the specific outputs and outcomes that the project aims to produce. These deliverables will help address the problem of food waste and achieve the project's objectives.

* **Landing Page design**
* **User-Interface**
* **Database-Structure**
* **Backend-Systems**
* **Business-logic**
* **Verification for User(s)**
* **(Payment System)**

# Quality management

To ensure that the project's deliverables meet the required quality standards for a Foodfaste website, the following approach and processes can be employed:

1. **Quality Planning**:

Quality planning is an essential step in project management to ensure that quality requirements for project deliverables are determined and met . During this phase, the project team should assess quality criteria specific to the Foodfaste website and define the standards that need to be achieved.

1. **Clearly Define Deliverables**:

It is crucial to clearly define every deliverable for the Foodfaste website project. This includes outlining each deliverable thoroughly, leaving no room for ambiguity. Vague outlines can lead to lengthy back-and-forth with stakeholders and potential rework.

1. **Internal and External Deliverables**:

In project management, there are internal and external deliverables. Internal deliverables are those that are in-house and required to complete the project, while external deliverables are the final products or services provided to the customer.

1. **Quality Control**:

Quality control is the process of determining quality requirements for project deliverables and testing, inspecting, and reporting to ensure they meet the standards . Peer reviews and testing can be used to validate the quality of the deliverables for the Foodfaste website.

1. **Validation and Verification**:

Validate the deliverables based on quality standards or acceptance criteria . This helps ensure that the deliverables satisfy the required standards and meet the needs of the project and stakeholders. Final verification by the customer or a customer proxy is essential to ensure that the quality standards are met.

# Prerequisite

1. **Hardware Requirements:** Each team member should have access to a device with a stable internet connection capable of running the software tools needed for developing a website
2. **Skills and Expertise:**

* **Web Development Technologies**: Each team member should have knowledge of web development. This could include experience using HTML and CSS for front-end and PHP/JAVA Script for backend. These knowledges will help us to create a user-friendly website with interactive features and functionality.
* **Database Management Skills:** It's important for the team members to have knowledge of database management in order to handle the data used in the project.
* **Understanding of Security Measures:** Each team member should have a basic understanding of security principles to ensure the safety of our users data.

# Success criteria

1. **Measurable objectives:** Implementing essential features such as food donation functionality, user profiles, and a user-friendly forum for discussions and sharing tips.
2. **Definition of Done:**

* Users can easily create listings for the food items they wish to donate
* Safety Measures to ensure that every food item donated it’s good for using
* A functional forum where users can post and reply

1. **Key performance Indicators:**

# Work break down structure

A diagram of a project

Description automatically generated