

# SIDDHANT 22BCE0682

JAVASCRIPT PROJECT DOCUMENTATION



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<https://siddhant22bce0682.github.io/DA-1-Portfolio/>



## • Creation of the Initial Web Page.

Brainstorming ideas was a key challenge at the time I began planning the structure of this javascript project based website. I surfed the internet for ideas. I went to YouTube, geeks for geeks, referred to the learning of my class and different other websites for inspiration.

## • Ideation.

Through my participation in Hackathon and Ideathons conducted by the clubs in VIT. I had gained some experience to design a javascript project. Out of the ideas I had implemented after rigorous brain storming, the one which I personally felt is an issue in the modern world is the Food wastage specially the natural fruits and vegetables.

## • Problem Statement

### Wastage of Fruits and Vegetables

The wastage of fruits and vegetables worldwide is a multifaceted issue stemming from various stages of the supply chain. From production and harvesting losses due to environmental factors and logistical challenges to inefficiencies in storage and transportation, a significant amount of fresh produce never makes it to the market. Moreover, market imperfections, such as oversupply and inadequate demand, further contribute to this problem. At the retail level, strict cosmetic standards lead to the rejection of perfectly edible fruits and vegetables based solely on appearance, adding to the overall wastage. This widespread inefficiency not only represents a loss of valuable resources but also exacerbates food insecurity and environmental degradation.

# • My Proposed Solution: FoodSavvy

My approach to addressing the widespread issue of fruit and vegetable wastage due to rotting involved developing a comprehensive framework to connect individuals and minimize unnecessary food loss. By harnessing the power of AI thermal sensing and object tracking technology, I envisioned a solution that not only identifies produce at risk of spoiling but also facilitates the redistribution of surplus items to those in need. The framework, aptly named Food Savvy, not only aims to prevent food waste but also raises awareness about sustainable consumption practices. Inspired by a similar project I'm working on called Tech Savvy, which focuses on technological advancements, I chose the name Food Savvy to highlight the importance of leveraging technology for smarter food management. Through this initiative, I aspire to make a tangible difference in reducing food waste and promoting a more sustainable future.

## • Description

Introducing FoodSavvy, where I'm on a mission to revolutionize the way we eat, one smart choice at a time. At FoodSavvy, we're not just about delicious recipes or meal planning tips – we're about empowering you to take control of your diet while making a positive impact on the planet.

Imagine a world where every meal you enjoy isn't just good for you but also good for the environment. That's the vision driving FoodSavvy. I believe that making healthy choices and reducing food waste aren't just compatible – they're essential for a sustainable future.

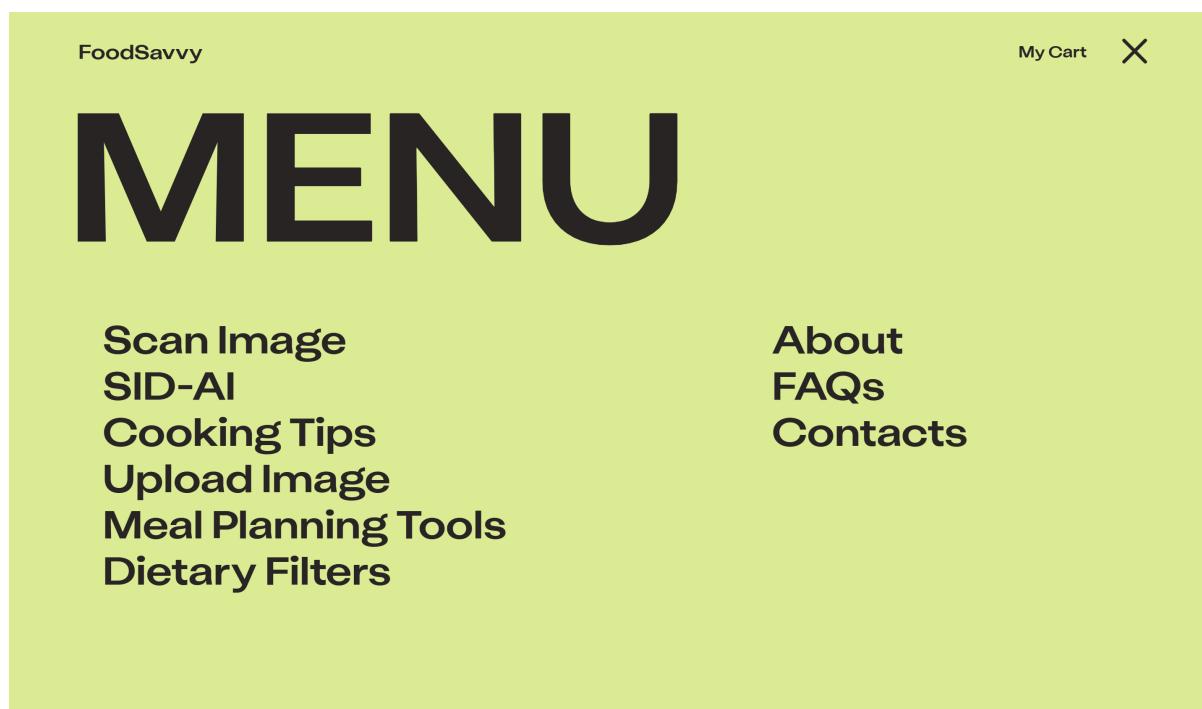
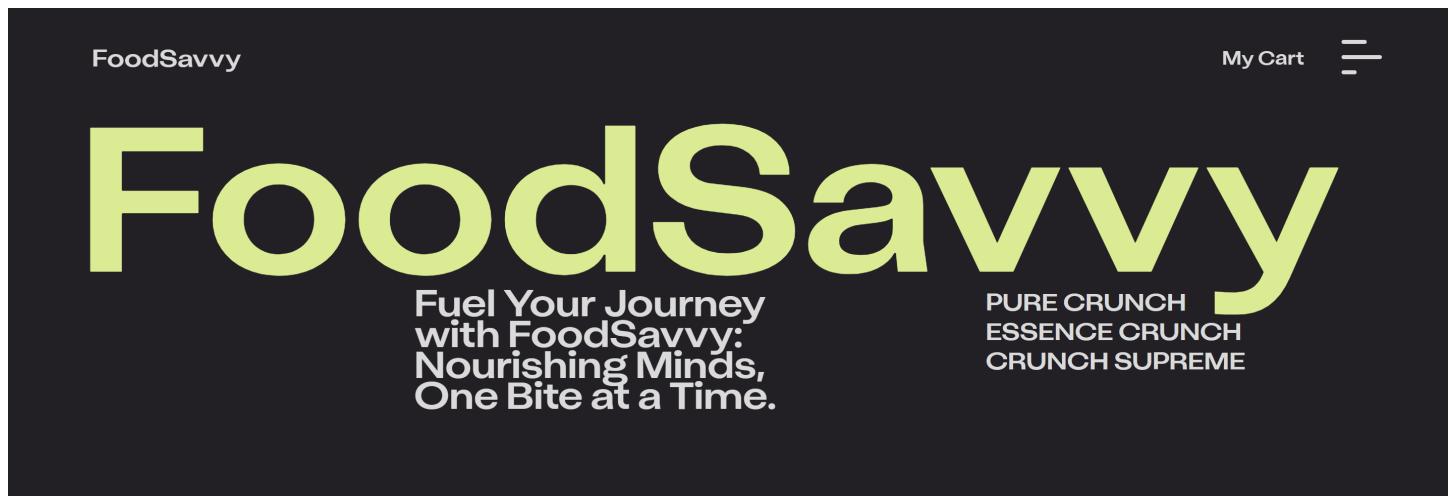
As someone who's passionate about food and sustainability, I've poured my heart and soul into creating a platform that's more than just a collection of recipes – it's a movement. Whether you're a seasoned chef or a kitchen newbie, FoodSavvy has something for you.

Join me on this journey to transform the way we eat and live. Together, we can make a real difference – for ourselves, for our communities, and for the planet. Let's become FoodSavvy together!

## • Designing the Web Page

I am extremely fascinated by the GSAP functionalities and its power. I am in literal words amazed to see how much power a single library holds. I personally prefer GSAP over React. It keeps things way more easier and dynamic. I had seen the GSAP scroll trigger menu bar after

rigorous surfing through the internet. I tried to implement it in my Porfolio but it just didnt fit in with the dynamics there. Determined specifically to include the same in this project, it was the first thing I designed and made initially.



This remains my personal favourite till now in the whole of the website incorporated using Javascript.

## • Designing Menu Bar & its Description

Designing the menu bar for my Food Savvy platform involved carefully considering the key pages and functionalities essential to my mission of reducing food wastage through AI technology while also providing comprehensive support for users' dietary needs and culinary endeavors.

1. Scan Image (AI-Powered Food Recognition): This page serves as the focal point of my platform, leveraging AI technology to identify and categorize food items from images captured by users. With my limited knowledge of Flutter, I'm working hard to finalize this feature, aiming to empower individuals to make informed decisions about their food consumption and minimize wastage by identifying perishable items at risk of spoilage.
2. SID AI Chat Bot: SID AI, my intelligent chatbot, offers personalized assistance and guidance to users on various topics related to food, nutrition, and sustainability. Acting as a virtual companion, SID AI delivers timely and relevant information to users whenever they need it, whether it's answering queries about recipe substitutions or providing tips on reducing food waste.
3. Cooking Tips: This section provides users with valuable insights and recommendations on cooking techniques, ingredient pairings, and meal preparation strategies. As someone passionate about cooking, I'm excited to share my culinary knowledge and creativity with users, helping them enhance their cooking skills and creativity in the kitchen.
4. Upload Image Functionality: Recognizing that not everyone may have access to AI scanning technology, the upload image functionality offers an alternative method for users to input their food items into the platform. This feature ensures inclusivity and accessibility while still enabling effective food tracking and management.
5. Meal Planning Tracker: My meal planning tracker empowers users to plan their meals efficiently, reduce food waste, and optimize their grocery shopping. With customizable meal schedules, recipe integration, and inventory management features, users can streamline their meal planning process and make more mindful choices about their food consumption.
6. Dietary Plans: Tailored to individual dietary preferences and restrictions, this section offers personalized meal plans and nutritional recommendations to support users in achieving their health and wellness goals. Drawing from my own experience and knowledge, I provide curated dietary plans to meet users' specific needs and requirements.

By incorporating these key pages and functionalities into the menu bar, my Food Savvy platform aims to offer a comprehensive and user-centric experience, empowering individuals to make informed decisions about their food choices, minimize wastage, and promote sustainable eating habits for a healthier planet.

## • Implementing Scan Image

The Scan Image feature is the cornerstone of my Food Savvy platform, embodying my passion for leveraging technology to tackle food wastage. Despite my current learning curve with Flutter, I'm pouring my energy into perfecting this functionality because I truly believe in its potential to make a difference.

This feature is all about empowering individuals to make smarter decisions about their food consumption. By simply snapping a picture of their groceries or meals, users can tap into the power of AI to instantly identify and categorize each item. It's like having a virtual assistant right in your pocket, guiding you towards more mindful choices.

With this tool, users can quickly spot perishable items that are at risk of going to waste. Whether it's that forgotten bunch of spinach at the back of the fridge or the leftovers from last night's dinner, the Scan Image feature helps users take proactive steps to use up their food before it spoils.

Beyond just minimizing waste on a personal level, this feature has the potential to spark a larger conversation about food sustainability. It's about empowering individuals to make a positive impact, one meal at a time. And while there may be challenges along the way, I'm committed to seeing this vision through because I believe in the power of technology to create a brighter, more sustainable future.

## • **Implementing Cooking Tips Page**

Cooking Tips: This segment is dedicated to offering users invaluable insights and suggestions on cooking methods, ingredient combinations, and meal preparation tactics. As an avid cooking enthusiast, I'm thrilled to impart my culinary expertise and innovation to users, assisting them in refining their culinary abilities and fostering creativity in the kitchen. This page also contains register form at the bottom so that users can connect with me easily regarding their queries. And its fully functional as I receive the data on my database.

**START YOUR JOURNEY NOW!**

GET YOURSELF STARTED NOW | CLICK ON THE BUTTON BELOW

**REGISTER NOW!!**

## REGISTER RIGHT NOW!

Name:

Email:

Submit

## • Implementing Upload Image

Image Upload Feature: Acknowledging that not all users may have access to AI scanning technology, the image upload functionality provides an alternative avenue for users to input their food items into the platform. This feature guarantees inclusivity and accessibility while maintaining the effectiveness of food tracking and management.

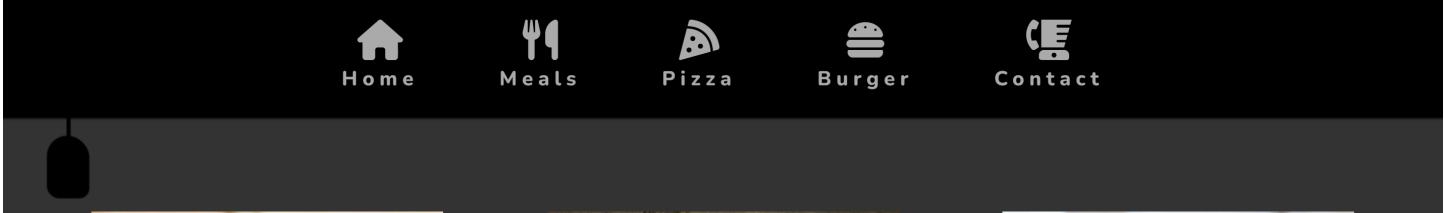
## • Implementing Meal Planner and Dietary Plans

Meal Planning Tracker: The meal planning tracker on my platform empowers users to efficiently plan their meals, minimize food waste, and optimize their grocery shopping. Featuring customizable meal schedules, seamless recipe integration, and robust inventory management capabilities, users can streamline their meal planning process and make mindful choices about their food consumption.

Dietary Plans: Catering to individual dietary preferences and restrictions, this section offers personalized meal plans and nutritional guidance to help users achieve their health and wellness objectives. Leveraging my expertise and experience, I curate tailored dietary plans that align with users' unique needs and requirements, supporting them on their journey towards better health and nutrition.

## • Designing Unique Features using Javascript & JS GSAP library

With the help of javascript and various libraries I was able to include amazing features to my website. Although due to limitation of knowledge in backend, its not yet fully functional. But will soon be when I acquire the knowledge in the field of Backend.



### Ask Anything To SID AI !

Hello.. I'm listening! Go on...

Check USN Report a Bug

Type a message... ➤

FoodSavvy **ana**  
Vegetables, Bursting with Flavor..

My Cart

Our Best Selling Products

01 Seasonal Delight

02 Fresh Fusion

03 Smoothie Sensation

04 Zesty Zinga



• Front Page

The front page remains something I am happy about. Many seniors told me it is too heavy for a website to deploy but I was determined to include it so I had to cut down some of the other functionalities to reduce the load and make the front page faster and most importantly responsive.

## • **Making The Website Responsive**

Finally after I completed my web-page everything was ready. This time from the prior learning of mine gained while making the portfolio website, I kept in mind to keep in constant check and make the website responsive.

## • **Pushing on Github**

It was difficult for me to push on github but with couple of mistakes and multiple pushing I pushed and deployed my Food Savvy Website. With experience gained about github from hackthons and workshops and further research on youtube. I finally pushed my code to github initially. Along the way while I modified my codes, I kept on updating and pushing each and every change regularly to github. After multiple times editing and deploying my Portfolio Webpage, I finally deployed my website.

## • **Link to web-page**

<https://siddhant22bce0682.github.io/DA-2-Javascript-Project---FoodSavvy/>