

# Accenture Innovation Challenge

Harness Generative AI to develop innovative solutions that boost business and societal growth

# Team details

TEAM NAME: **DevNinjas**



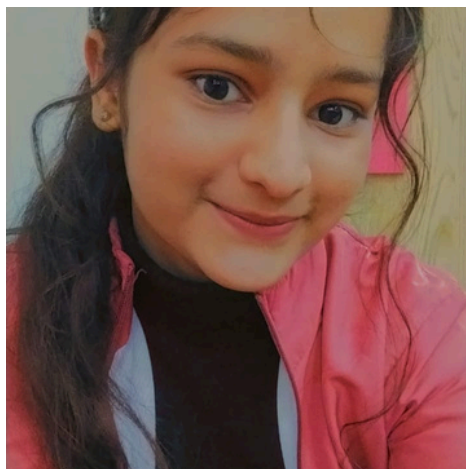
## Ujjwal Sharma (Team Leader)

College: Sanskar College of Engineering and Technology  
Stream: Computer Science  
Year of graduation: 2026



## Rohit Chauhan

College: Sunderdeep Engineering College Ghaziabad  
Stream: Computer Science  
Year of graduation: 2026



## Ishika Jain

College: Jss academy of technical education Noida  
Stream: Computer Science  
Year of graduation: 2026



## Yash Raj

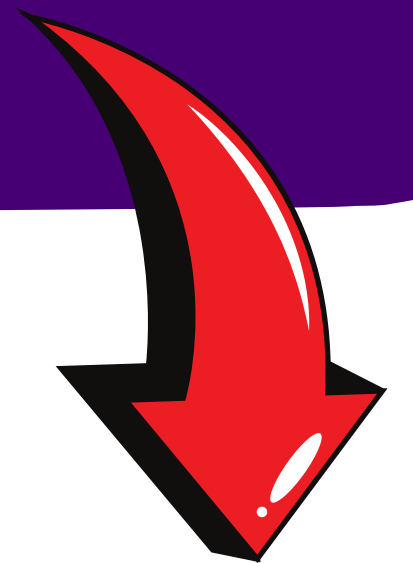
College: **Ajay Kumar Garg Engineering College**  
Stream: Computer Science  
Year of graduation: 2026

# Describe the problem statement (200 words)

In today's fast-paced world, maintaining a balanced diet and making informed food choices can be challenging. Many people lack the knowledge to accurately assess the nutritional content of the food they consume, making it difficult to understand how it affects their health.



Which leads to the rise of chronic health conditions like obesity, diabetes, and cardiovascular diseases, it's more important than ever for people to be aware of the food they consume.



Broadly speaking following problems are faced by the peoples which are webapp tries to solves Limited Access to Nutritional Information, Lack of Understanding About Health Benefits and Disease Prevention, Difficulty in Sourcing Ingredients, Unavailability of Ingredient Substitutes, Personalized Diet Needs



Additionally, finding reliable information on where to purchase ingredients, suitable dietary substitutes, or personalized diet plans tailored to their health goals is often time-consuming and confusing.

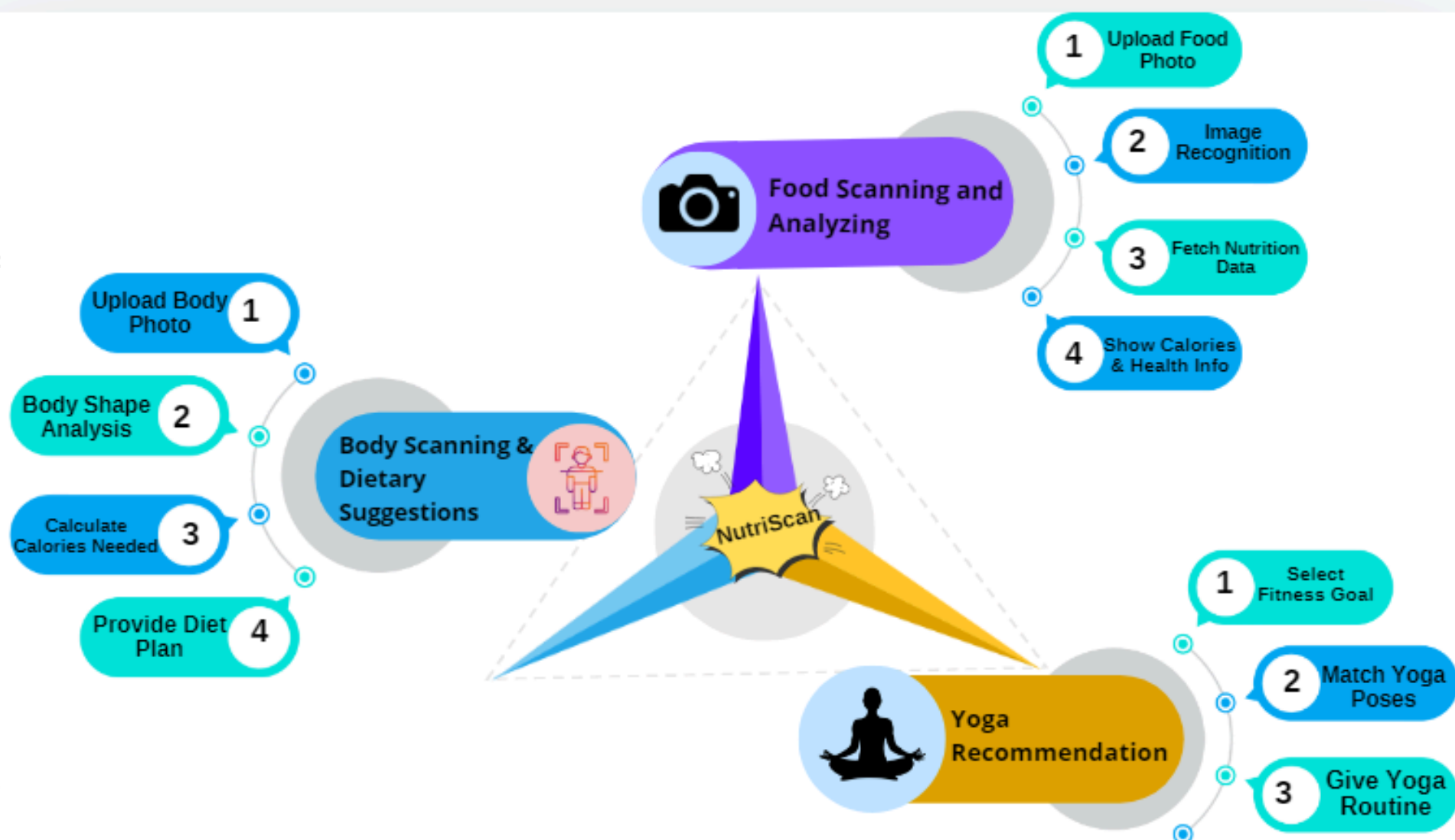




# Proposed solution / your big Idea (200 words)

**NutriScan** is a **generative AI model** which analyze food and body data to provide **personalized health recommendations**. It is a comprehensive health and wellness AI model that can help users make informed decisions about their diet and exercise habits. It creates a **personalized plan** – suggesting the right amount of calories and a **customized diet** to fit your needs. Imagine a **smart nutritionist** in your pocket. It offers three main features:

1. **Food Scanning and Analyzing:** Users simply upload a photo, and the app employs **image recognition (CNNs)** to identify food items. By communicating with **nutrition APIs**, the app retrieves detailed nutritional information, including calories, macronutrients, and potential health concerns. This information is then presented to the user for their understanding.
2. **Body Scanning & Dietary Suggestions:** Users can upload a full-body photo, and the app uses **AI-powered tools** to analyze their body shape and determine their body type. This information is used to calculate **personalized calorie** needs based on health goals. The app then provides tailored diet plans with meal suggestions, portion sizes, and timings to help users achieve their desired results.
3. **Yoga Recommendation:** Users can select their fitness goals, and the app offers a **personalized yoga routine** based on user fitness goals and body type. The app selects suitable yoga poses from its database, considering the user's experience level to ensure safe and effective practice. **Instructional videos or links** are provided to guide users through each pose.

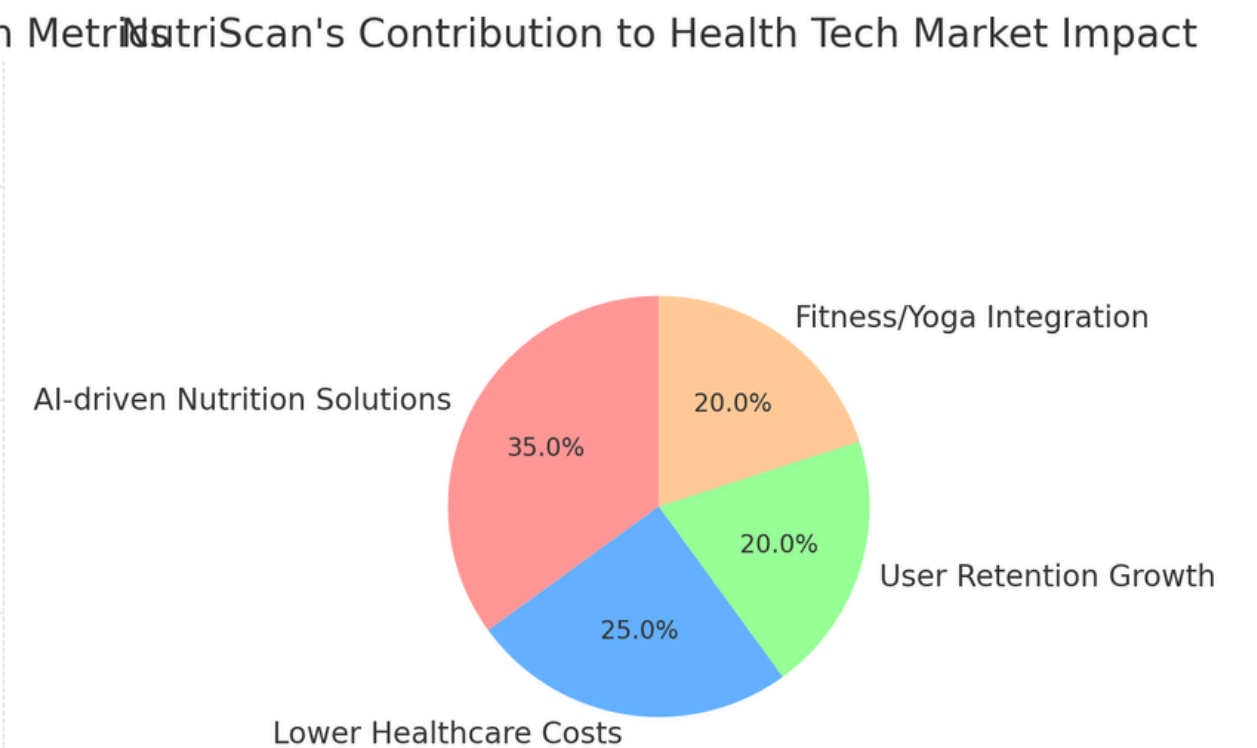
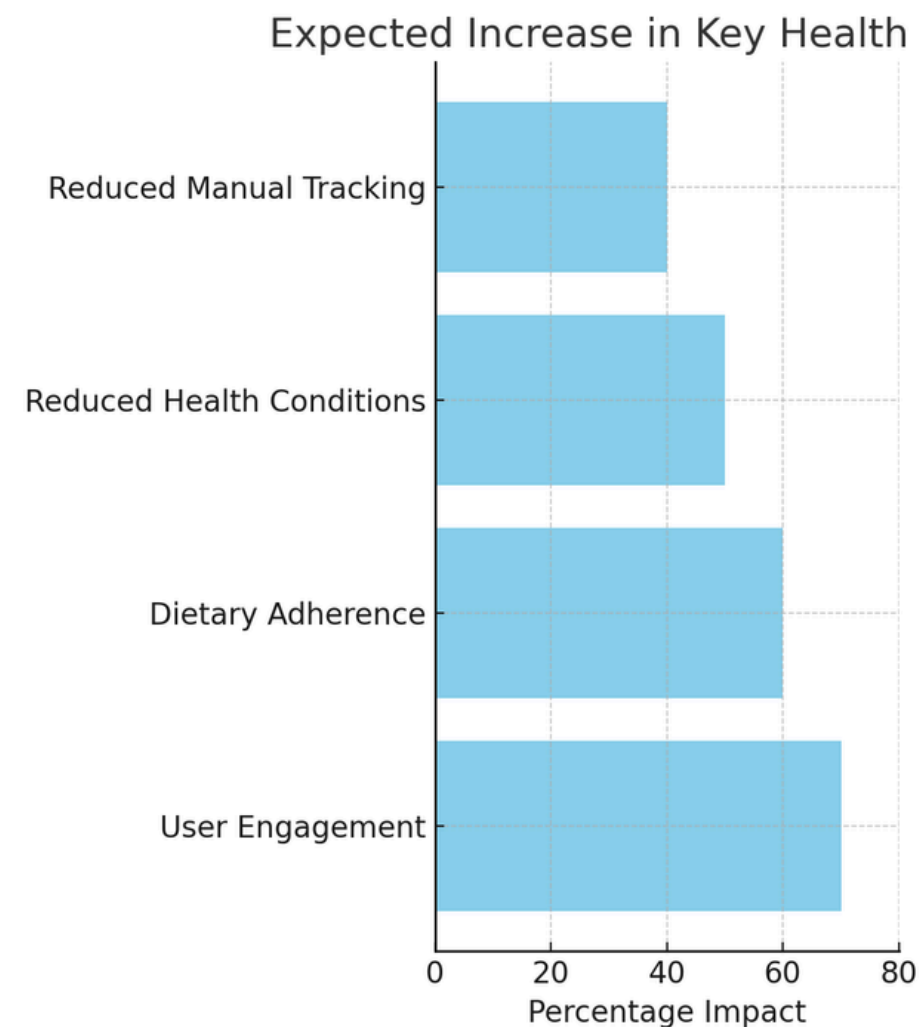
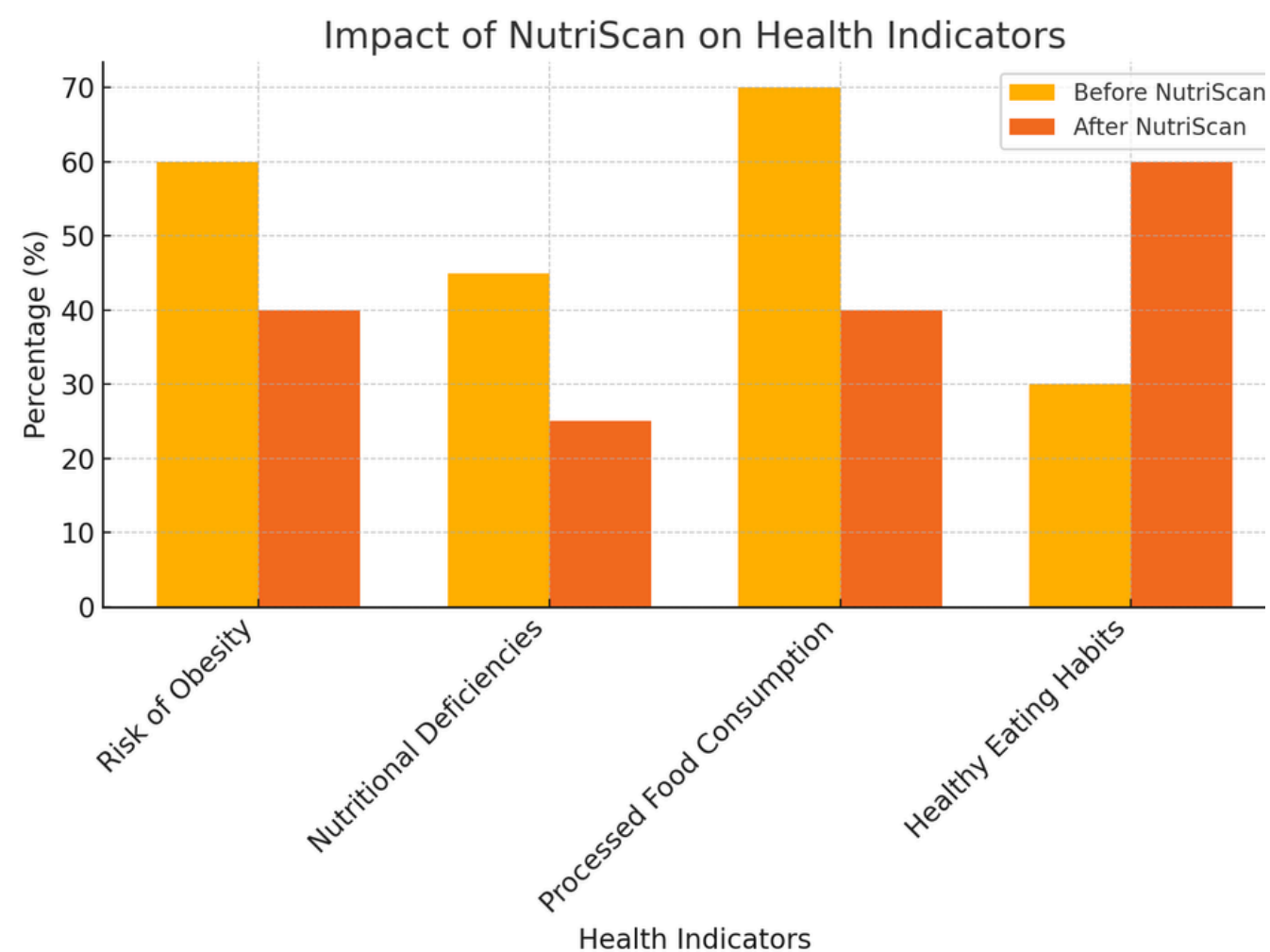


Component	Technology/Tools
Frontend	React.js, HTML5/CSS3, Tailwind CSS, JavaScript (ES6+), Redux/Context API, React Router
Backend	Node.js + Express.js, Python (Optional), Razorpay/Stripe (Payments)
ML & Image Processing	OpenCV, Google Vision API/Custom TensorFlow model
Hosting	Heroku, Vercel
APIs	Nutrition API, Health & Disease API, E-commerce APIs, Recipe & Diet Plan API, Ingredient Substitute API

# How does your innovation accelerate change with the power of Technology? (200 words)

NutriScan's technology-driven approach accelerates change by:

- **Simplifying healthy eating:** NutriScan offers a **user-friendly interface** and **automated food recognition** powered by AI. Users can quickly scan their meals and receive **accurate nutritional information** without manual input, making it easier to maintain a balanced diet. The **automation** helps reduce time spent on tracking, ensuring that even busy individuals can adopt **healthier eating habits effortlessly**.
- **Personalizing fitness routines:** NutriScan customizes **fitness and yoga routines** based on individual body types, experience levels, and health goals. This personalized approach ensures that users engage in workouts that align with their unique needs, **preventing injuries** and optimizing results. By **tailoring yoga practices** to each user's capabilities, It promotes more effective and enjoyable fitness sessions.
- **Promoting informed decision-making:** By providing instant access to **detailed nutrition data**, NutriScan enables users to make **well-informed dietary decisions**. Instead of relying on generic advice, users gain a clear understanding of the **nutritional value** of their food choices, helping them improve their overall well-being. This empowers individuals to take control of their health with confidence and fosters long-term positive changes.



# How is your solution different/unique from other solutions in market? (150 words)

- NutriScan sets itself apart from other health and wellness apps by offering a **fully integrated, AI-powered solution** that combines **food recognition, body scanning, and personalized yoga recommendations** into one seamless experience.
- Unlike typical nutrition trackers or fitness apps, NutriScan's **generative AI delivers real-time**, tailored advice by analyzing both food and body data, ensuring precision and personalization.
- Its **computer vision-based food scanning** allows users to quickly understand nutritional content without manual input, while body shape analysis offers accurate calorie and meal suggestions based on individual health goals.
- Additionally, NutriScan's custom **yoga routines** go beyond generic fitness plans by aligning poses with body types and experience levels, ensuring safe and effective practices. **With 24/7 accessibility and automation,**
- NutriScan is a **personal health coach** that adapts dynamically, offering **comprehensive wellness guidance** that's truly tailored to the user's lifestyle. This **unique integration positions** it as a game-changer in personalized health.

Features	NutriScan	Other Fitness Apps
Personalization	Uses Generative AI to deliver real-time, personalized diet and fitness recommendations.	May offer some level of personalization but often based on predefined templates or static inputs.
Food Scanning	AI analyzes body shape via photos to determine body type and suggest custom diet and fitness.	Rarely, if ever, includes body scanning capabilities for personalized analysis.
Holistic Health Approach	Combines diet, body analysis, and personalized yoga routines into one integrated solution.	Typically focuses on only one aspect, either fitness or diet, but rarely both in-depth.
Yoga Recommendation	Tailors yoga routines to body type, goals, and experience level, ensuring safety and efficacy.	Provides generalized fitness routines with little to no yoga or customization based on body type.
Nutritional API Integration	Connects to nutrition databases for real-time, accurate data on food content and health risks.	Basic nutritional databases often lack detail or don't integrate health risk information.

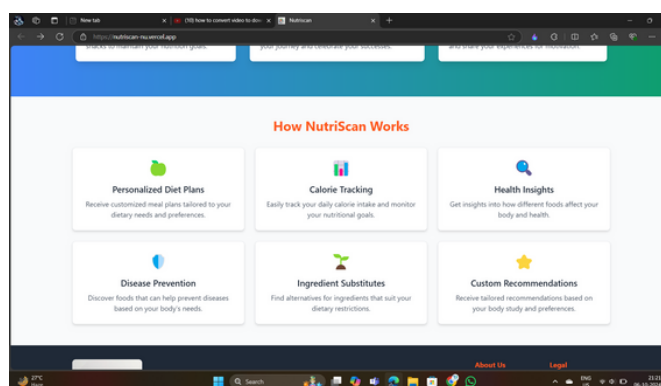
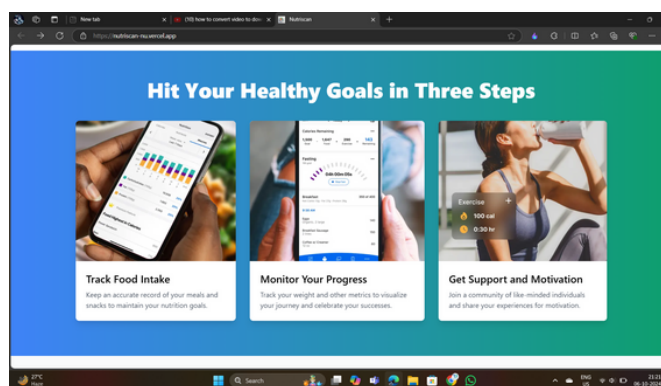
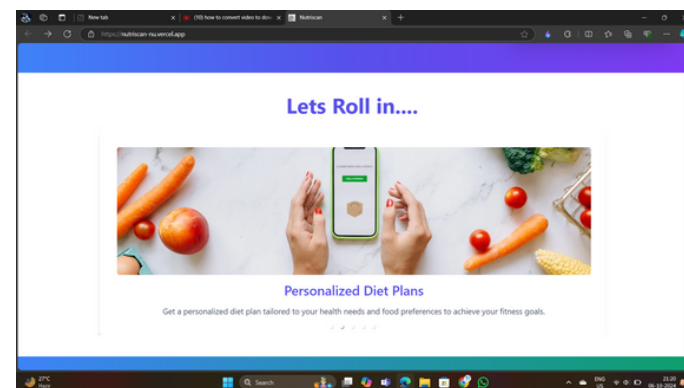
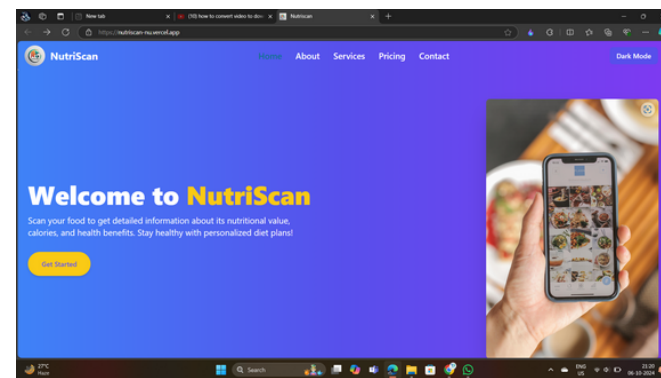
Do you have a working model/prototype: Yes

If not, will you be able to show working prototype during finale. Yes

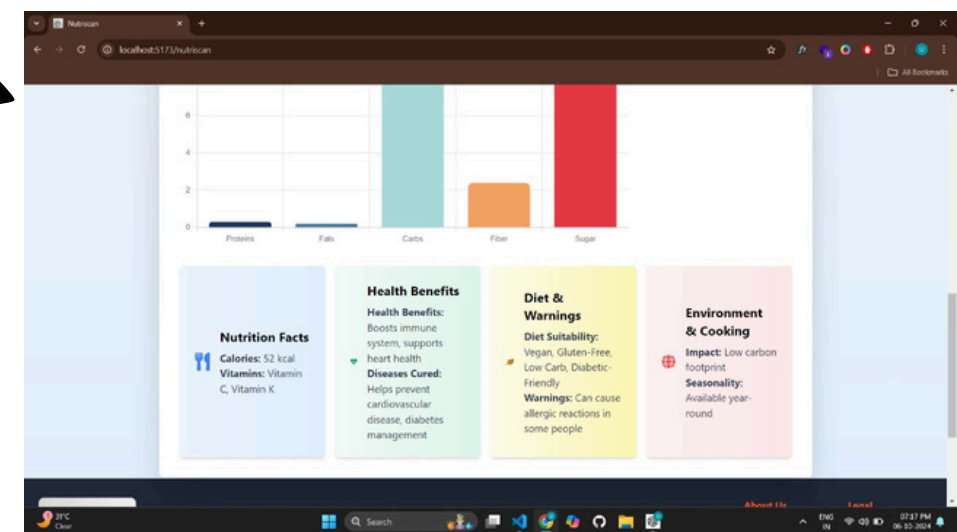
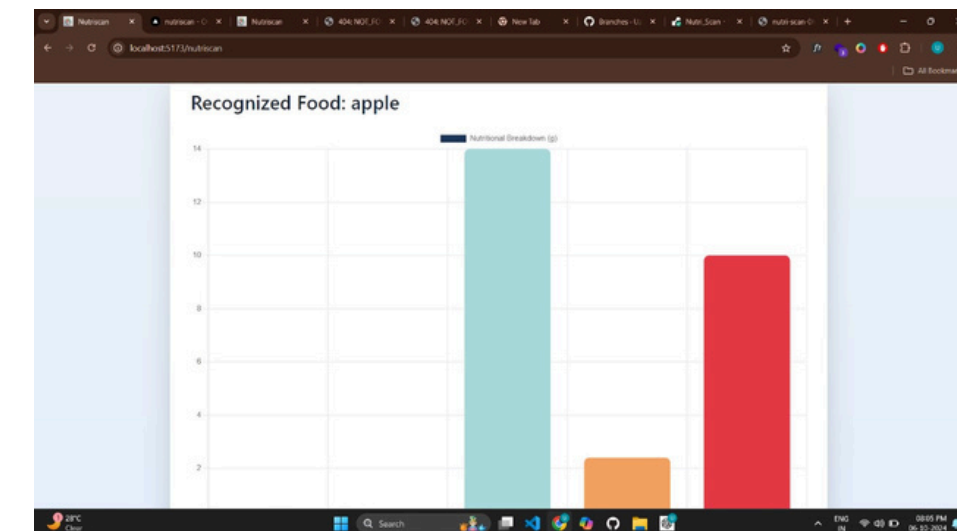
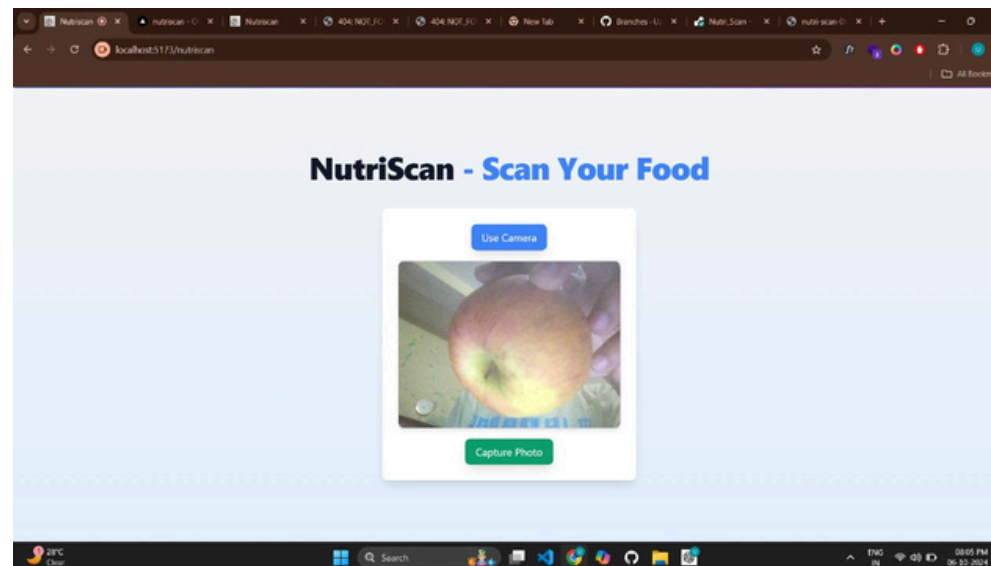


Any testimonials received ? - No

## Home Page



# Prototype



Prototype link: <https://nutriscan-nu.vercel.app>

Please share a 1-minute video of your idea (embed on this PPT or add a downloadable link)



[Click to Download](#)





**Thank you!**