

GUJARAT TECHNOLOGICAL UNIVERSITY

Chandkheda, Ahmedabad Affiliated



Sardar Vallabhbhai Patel Institute Of Technology Vasad-041

A Project Report On

Food Scanner

Under the course of

DESIGN ENGINEERING – 1A (2130005)

B. E. II, Semester – III (Information Technology)

Submitted by:

Group ID:5301

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Academic year (2017-2018)



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CERTIFICATE

This is to certify that the students namely, **Kaustubh**

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B. E. (Information Technology) Semester III have successfully completed the course work and related tasks for the course of Design Engineering 1A (2130005) during the academic term ending in the month of October 2017.

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Place: SVIT VASAD

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FOOD SCANNER

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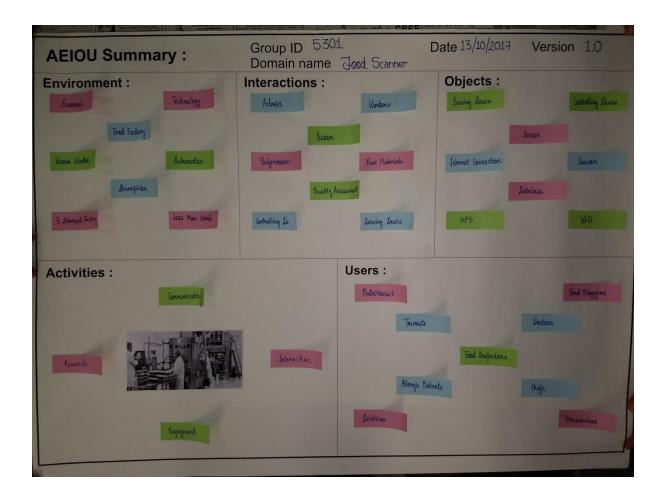
1.INTRODUCTION

Now a day we observe the many food related health problems increases day by day due to increasing in food quality issues. We rarely find healthy, hygieneand pure food.

When we go outside the country we did not know about the exact food items used in dishes. And sometimes we clearly unable to recognize some food.

So, consider this all food related issues we work on it and decide to develop basic food scanner which can scan your food to deliver accurate information.

2. AEIOU CANVAS



We discuss here some points which are covered in this canvas.

ACTIVITY:

- When we visited in food laboratory we communicate with managers and workers include every staff member and try to know about their work and how food proceed in their laboratory.
- We saw that how they check food quality and how they differentiate food by their quality and then according to use they do process on that and used that food.

• We also saw all company workers engagement with their works.

ENVIRONMENT:

- Weather
- Technology used in food processing system
- Automation -all work done by machines and only one man handles with commuter that all machines
- Food Storage machines

INTERACTIONS:

At food factory we communicate with many people like.

- Admin
- Manager
- Workers

Work done by those peoples

- Raw materials checking
- Quality assessment
- Control the devices

OBJECTS:

Objects which are used in food sensor

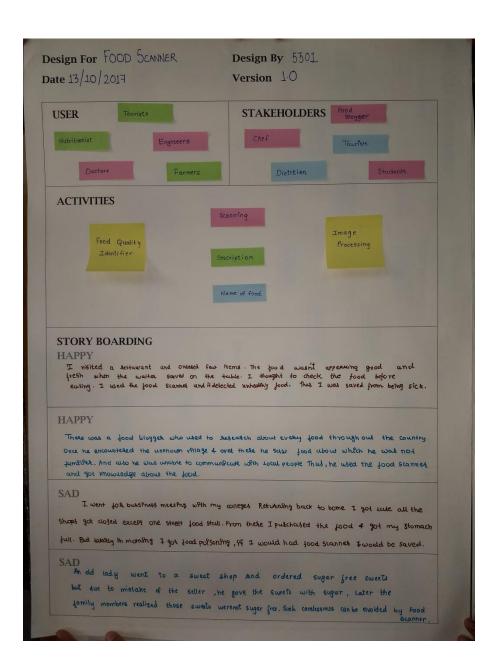
- Sensing devices
- Controlling devices
- Connectors
- GPS
- Wi-Fi
- Internet connection
- Database

USERS:

Mostly food scanner used by these persons

- Food inspector
- Dietitian
- Chefs
- Doctors
- Food blogger

3. EMPATHY MAPPING



Here we are going to explain users, stack holders and activity. And here we are discussing about happy story and sad story which indicate how food scanner helps us.

USERS:

- Tourist
- Engineer
- Doctor
- Farmer

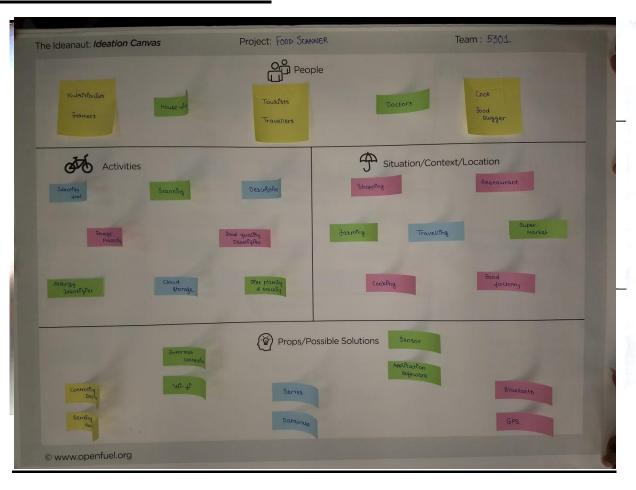
STACKHOLDERS:

- Chef
- Food blogger
- Student
- Dietitians

ACTIVITY:

- Food quality identifier
- Scanning
- Name of food
- Description
- Image processing

4. IDEATION CANVAS



Here we are describing people, and activities of people, situation, location, and what types of problems face by peoples and their solution.

PEOPLE:

- Nutrition
- Tourist
- Traveler
- Doctor

ACTIVITY:

- Scanning
- Description
- Image processing
- Cloud storage
- Identity of food
- Food quality identifier
- Allergy identifier

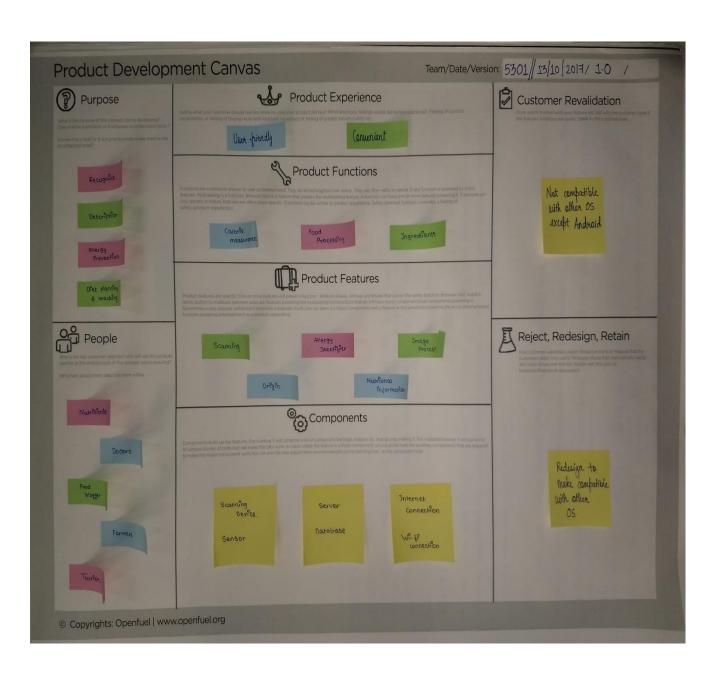
SITUATION/CONTEXT/LOCATION:

- Shopping
- Farming
- Travelling
- Super market
- Restaurant
- Food factory
- Cooking

PROPS/POSSIBLE SOLUTION:

- Sensor
- Bluetooth
- GPS
- Application software
- Server
- Wi-Fi
- Database

5. PRODUCT DEVLOPMENT CANVAS



This canvas shows the purpose of food scanner, people, product functions of food scanner, components of food scanner.

PURPOSE:

- Food scanner is giving you the whole Description of particular scanning food.
- Food scanner helps you to Recognizing food.

PEOPLE:

- Nutrition
- Doctors
- Food blogger
- Tourists
- Farmers

PRODUCTION FUNCTIONS:

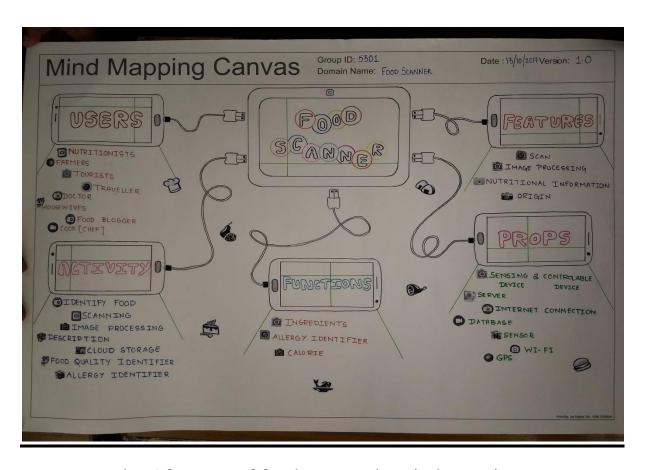
- Food processing
- Ingredients
- Calorie measurement

PRODUCT FEATURES:

• Scanning

- Image processing
- Origin
- Nutrition information
- Allergy identifier

6. MIND MAPPING



Here we can see the 5 features of food scanner in mind mapping.

- Users
- Props
- Activity
- Functions
- Features