

GUJARAT TECHNOLOGICAL UNIVERSITY

Chandkheda, Ahmedabad

Affiliated



New L J Institute of Engineering and Technology

A

Project Report

On

YOUTH EMPLOYMENT OPPORTUNITIES

Under subject of

DESIGN ENGINEERING-IA

B. E. II, Semester – III

Computer Science Engineering (Artificial Intelligence & Machine Learning)

Submitted by:

Group: CSE-24 ID: 354189

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Academic Year: 2021-2022

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1. Introduction

1.1 Design Thinking:

- Design engineering is the creative process of identifying needs and then devising a solution to fill those needs.
- This solution may be a product, a technique, a structure, a project, a method, or many other things depending on the problem.
- The general procedure for completing a good engineering design can be called the engineering method of creative problem-solving.
- Problem-solving is the process of determining the best possible action to take in a given situation.
- The nature of problems that engineers must solve varies between and among the various branches of engineering.

1.2 Project Summary:

The government has made many provisions for the socially backward class people and the rural people to have basic primary education to uplift their lives. But the people are unable to access these benefits due to a lack of detailed knowledge about those schemes and the language barriers. So, to uplift their lives, our team has decided to build a platform to explore government projects.

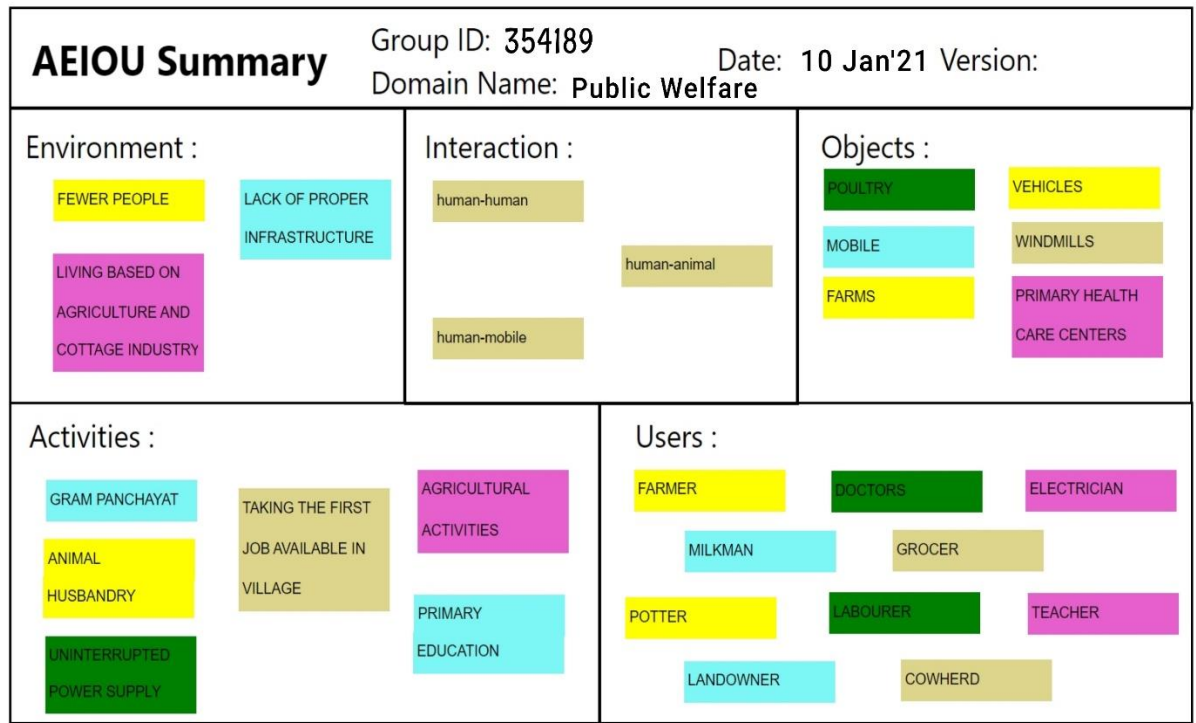
We had made visits to the rural places and interacted with many people. We had different observations about their problems and their reasons.

We wanted to make a change in society. Education is one of the ways to bring the best from individuals. Some are not privileged to get an education due to various reasons. The government has provided schemes but their awareness has not reached many minds. In this world of screens, providing the information for their careers can be a better solution.

After noting various solutions to the problem, we came to the result to develop a website. Our project gives benefits to the users who want to bring a significant change in their lives through education which is not limited to rural people but also every citizen who wants to get information. This idea would be implemented using a website that can reach the maximum number of people. We have used the asp.net platform with java as our programming language. We have functions like details of job opportunities, direct links to courses, and e-books. We have features like availability of resources, language accessibility, and video-based resources. This project requires a data admin that keeps the details updated on the site as well as the collection of video links and e-books. The sources of these links need to be referenced on the site.

2. AEIOU CANVAS

- ❖ Activities
- ❖ Environment
- ❖ Interaction
- ❖ Objects
- ❖ Users



- **Activities**

It includes activities occurring at the place of observation:

- Gram Panchayat
- Animal Husbandry
- Agricultural activities
- Taking the first job available in the village
- Primary Education

- **Environment**

It includes the surrounding atmosphere of the place of observation

- Fewer people
- Lack of proper infrastructure
- Living based on agriculture and cottage industries

- **Interactions**

It includes interactions occurring among various people

- Human-Human
- Human-Animal
- Human-Mobile

- **Objects**

It includes different objects at the place of observation

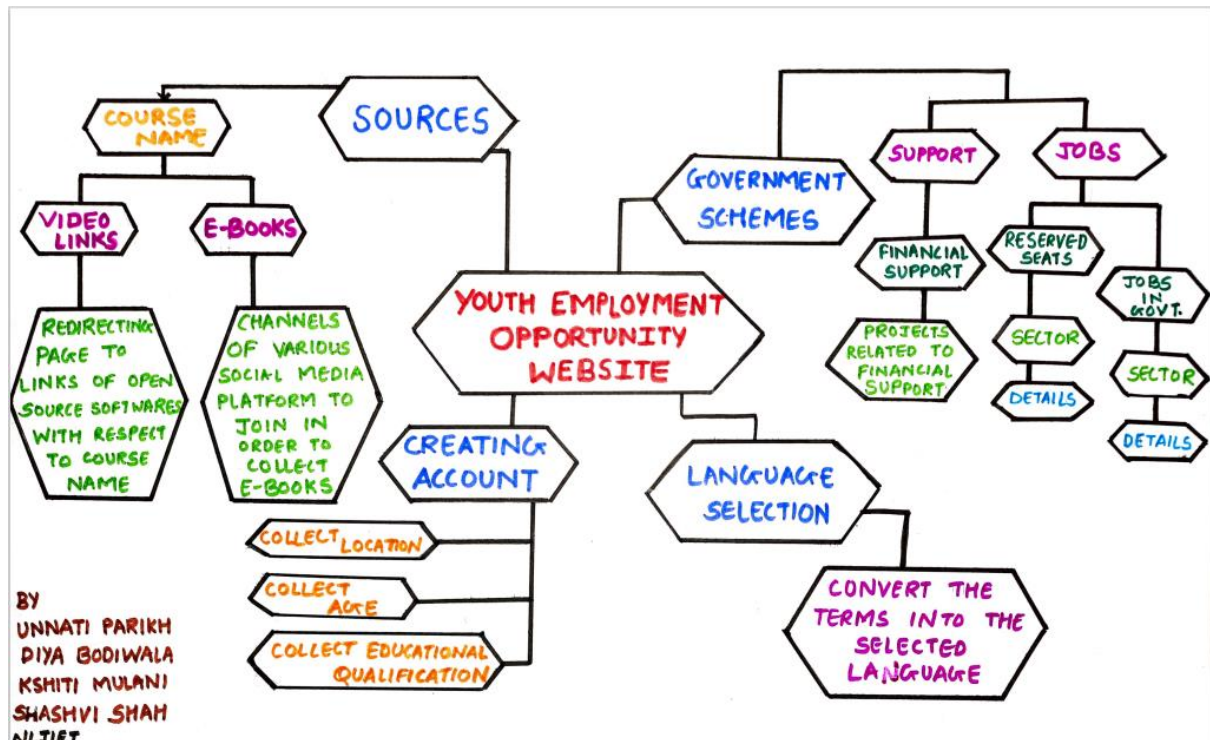
- Poultry
- Farms
- Mobiles
- Vehicles
- Windmills
- Primary Health Care centers

- **Users**

It includes people who are present at the place of observation

- Farmers
- Doctors
- Electrician
- Milkman
- Grocer
- Potter
- Teacher
- Laborer
- Land Owner
- Cowherd

2.1 Mind Map



3. Empathy Mapping

- ❖ Users
- ❖ Stakeholders
- ❖ Activities
- ❖ Story Boarding

Design for : Public Welfare		Design By : CSE-24	
Date: 10th Jan'21		Version :	
USER		STACKHOLDER	
RURAL PEOPLE	SUBURBANS	DATABASE ADMINISTRATOR	MAINTENANCE TEAM
LOCAL PEOPLE	JOB ASPIRANTS	WEB DEVELOPER	
ACTIVITIES			
PEOPLE WILL GET TO KNOW ABOUT THE AVAILABLE PROJECTS	CHECKING AGE CRITERIA	PROVIDE YOUTUBE LINKS FOR THE COURSES REQUIRED IN THE JOB	
	CHECKING ELIGIBILITY		
STORY BOARDING			
HAPPY PEOPLE WERE HAPPY WITH THE NUMBER OF JOB OPPORTUNITIES THAT WERE ACCESSIBLE TO THEM THROUGH SCHEMES.			
HAPPY RURAL PEOPLE FACING ENGLISH AS A LANGUAGE BARRIER WERE HAPPY WITH THE OPTION OF NATIVE LANGUAGE BEING PROVIDED TO THEM THROUGH WHICH NOW THEY CAN EASILY UNDERSTAND THE SCHEME.			
SAD PEOPLE WHO NEEDED JOB WERE NOT ABLE TO GET A JOB THAT HELPED TO ATTAIN GROWTH IN THEIR CAREER.			
SAD PEOPLE WERE NOT AWARE OF THE BENEFITS/SCHEME PROVIDED TO THEM BY THE GOVERNMENT. LANGUAGE BARRIERS ALSO PLAYED A VITAL ROLE IN UNDERSTANDING THE SCHEMES.			

- **User**

It includes people who are present at the place of observation.

- Rural people
- Suburban
- Local people
- Job Aspirants

USER

RURAL PEOPLE

SUBURBANS

LOCAL PEOPLE

JOB ASPIRANTS

- **Stakeholders**

It includes people who are indirectly related to the environment i.e. third party service

- Database Administrator
- Maintenance Team
- Web Developer

STACKHOLDER

DATABASE
ADMINISTRATOR

MAINTENANCE
TEAM

WEB
DEVELOPER

- **Activities**

It includes events occurring at the place of observation

- People will get to know about the available projects
- Check eligibility
- Check age criteria
- Provide video links for courses required in the job

ACTIVITIES

PEOPLE WILL GET
TO KNOW ABOUT
THE AVAILABLE
PROJECTS

CHECKING AGE
CRITERIA

CHECKING
ELIGIBILITY

PROVIDE YOUTUBE
LINKS FOR THE
COURSES
REQUIRED IN
THE JOB

- **Story Boarding**

Happy Stories:

It includes two stories at the place of observation whose outcome was happy.

HAPPY

PEOPLE WERE HAPPY WITH THE NUMBER OF JOB OPPORTUNITIES THAT WERE ACCESSIBLE TO THEM THROUGH SCHEMES.

HAPPY

RURAL PEOPLE FACING ENGLISH AS A LANGUAGE BARRIER WERE HAPPY WITH THE OPTION OF NATIVE LANGUAGE BEING PROVIDED TO THEM THROUGH WHICH NOW THEY CAN EASILY UNDERSTAND THE SCHEME.

Sad Stories:

It includes two stories observed at the place of observation whose outcome was sad.

SAD

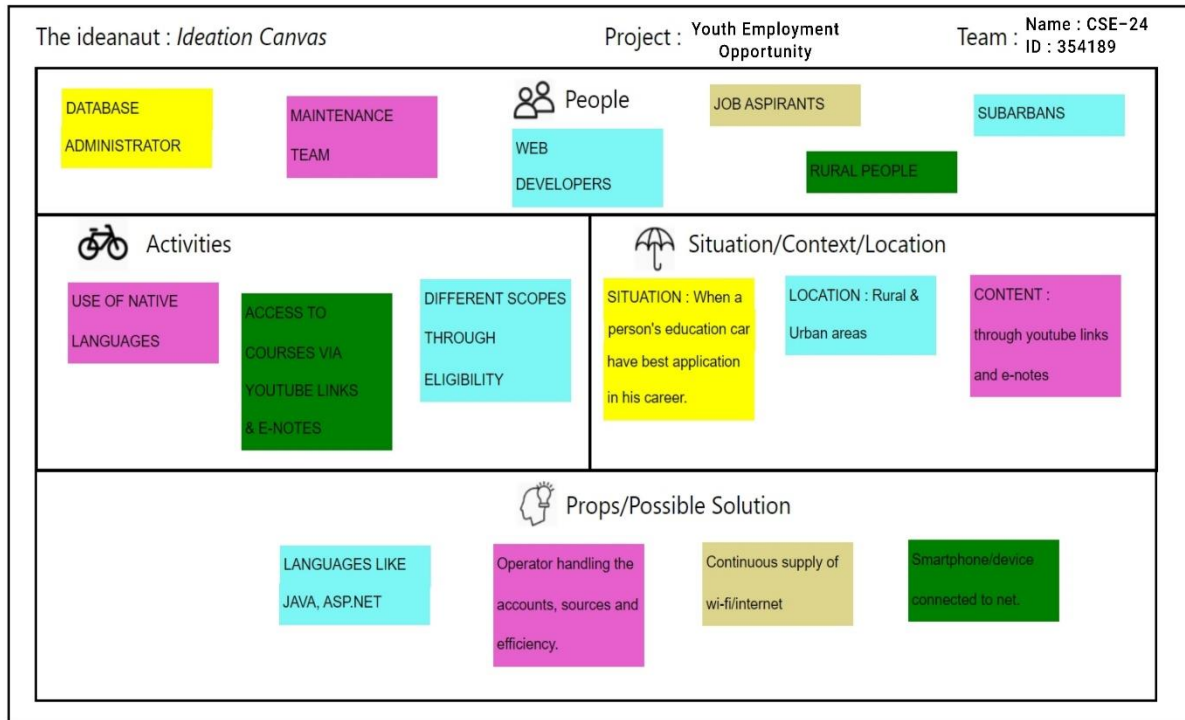
PEOPLE WHO NEEDED JOB WERE NOT ABLE TO GET A JOB THAT HELPED TO ATTAIN GROWTH IN THEIR CAREER.

SAD

PEOPLE WERE NOT AWARE OF THE BENEFITS/SCHEME PROVIDED TO THEM BY THE GOVERNMENT. LANGUAGE BARRIERS ALSO PLAYED A VITAL ROLE IN UNDERSTANDING THE SCHEMES.

4. Ideation Canvas

- ❖ People
- ❖ Activities
- ❖ Situation/Context/Location
- ❖ Props/Possible Solutions



People

It includes several people related to the project directly or indirectly.

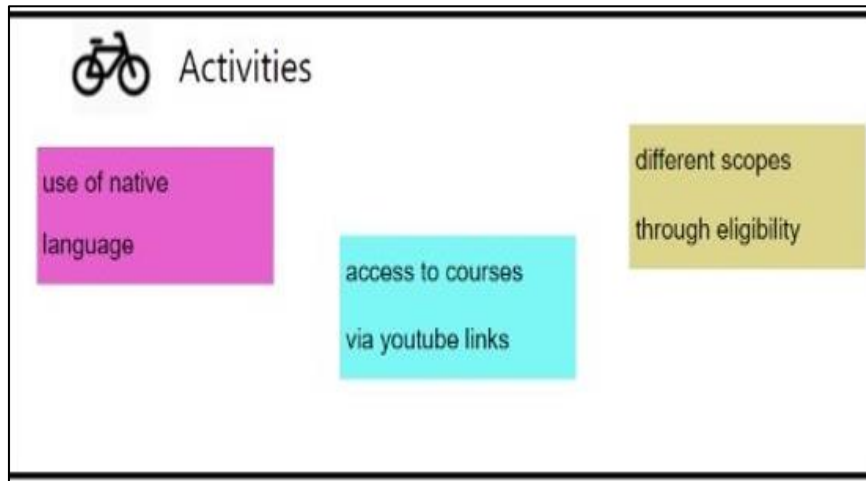
- Database Administrator
- Maintenance Team
- Web Developer
- Job Aspirants
- Rural People
- Suburban



Activities

It includes events occurring at the place of observation.

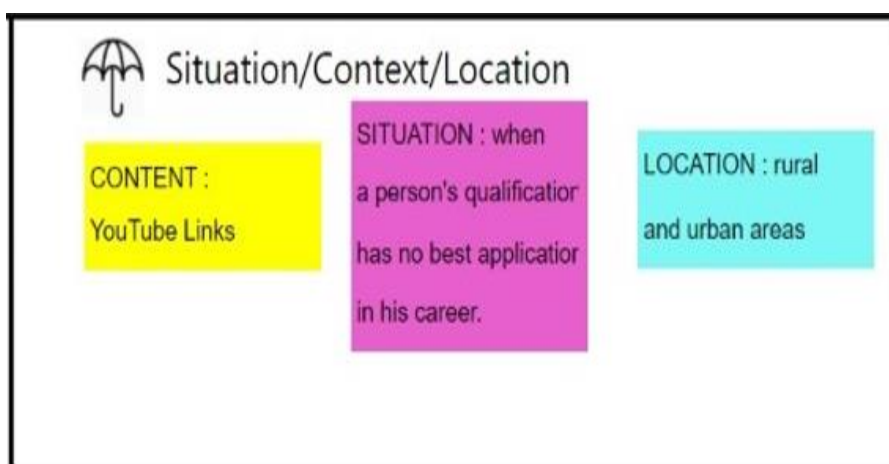
- Use of native language
- Access to courses via YouTube links
- Different scopes through eligibility



Situation/Context/Location

It includes places where the mentioned activities might occur.

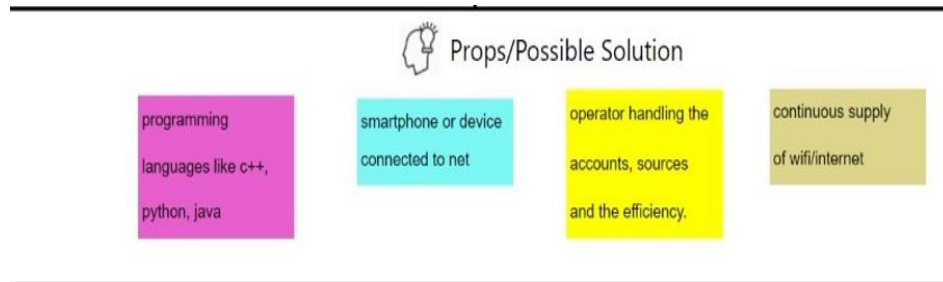
- Situation: When a person's qualification has no best application in his career.
- Location: Rural and urban areas
- Content: Video links



Props/Possible Solutions

It includes various ways to solve a given problem.

- Props: programming languages like C++, java to build the website.
- Continuous supply of internet
- Smartphones available to all
- Operators handling the accounts, sources, and the efficiency



5. Product Development Canvas

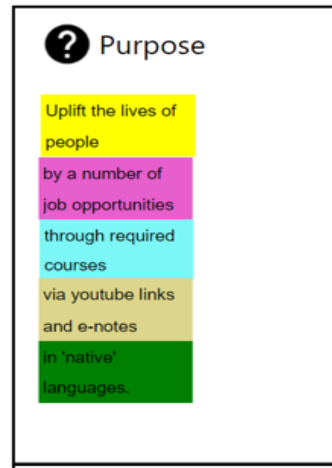
- ❖ Purpose
- ❖ People
- ❖ Product Experience
- ❖ People Function
- ❖ Product Features
- ❖ Components
- ❖ Customer Revalidation
- ❖ Reject, Redesign, Retain

Product Development Canvas		Team NAME CSE-24 ID 354189	Date : 10 Jan'21	Version :
<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> Purpose <div style="background-color: yellow; padding: 2px;">Uplift the lives of people</div> <div style="background-color: pink; padding: 2px;">by a number of job opportunities</div> <div style="background-color: cyan; padding: 2px;">through required courses</div> <div style="background-color: gold; padding: 2px;">via youtube links and e-notes</div> <div style="background-color: green; padding: 2px;">in 'native' languages.</div> </div> <div style="border: 1px solid black; padding: 5px;"> People <div style="background-color: green; padding: 2px;">Suburbans</div> <div style="background-color: yellow; padding: 2px; margin-top: 10px;">Job Aspirants</div> <div style="background-color: gold; padding: 2px; margin-top: 10px;">Rural People</div> </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> Product Experience <div style="background-color: pink; padding: 2px;">Better accessibility</div> <div style="background-color: green; padding: 2px;">Availability of resources</div> <div style="background-color: gold; padding: 2px;">Found it USEFUL</div> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> Product Function <div style="background-color: cyan; padding: 2px;">Details of job opportunities</div> <div style="background-color: pink; padding: 2px;">Direct link to courses</div> <div style="background-color: gold; padding: 2px;">e-books</div> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> Product Features <div style="background-color: yellow; padding: 2px;">Availability of Resources</div> <div style="background-color: cyan; padding: 2px;">Language Accessibility</div> <div style="background-color: green; padding: 2px;">Video based resources</div> </div> <div style="border: 1px solid black; padding: 5px;"> Components <div style="background-color: green; padding: 2px;">Database Administrator</div> <div style="background-color: yellow; padding: 2px;">WEBSITE</div> <div style="background-color: cyan; padding: 2px;">Web Developers</div> <div style="background-color: pink; padding: 2px; margin-top: 10px;">Maintenance Team</div> </div>		<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> Customer Revalidation <div style="background-color: pink; padding: 2px;">Satisfied with the information on app</div> <div style="background-color: cyan; padding: 2px; margin-top: 10px;">Happy to get jobs in their field</div> <div style="background-color: gold; padding: 2px; margin-top: 10px;">NO SALARY PERSPECTIVE</div> </div> <div style="border: 1px solid black; padding: 5px;"> Reject, Redesign, Retain <div style="background-color: yellow; padding: 2px;">MODIFY : Add information about salary</div> <div style="background-color: gold; padding: 2px; margin-top: 10px;">Keep Updating</div> </div>	

- **Purpose**

It states the purpose of the project:

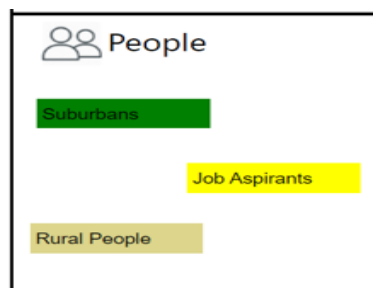
Uplift the lives of people by several job opportunities through requires courses via YouTube links and e-notes in their native languages.



- **People**

It includes people related to the product

- Job Aspirants
- Sub-Urban
- Rural People



- **Product Experience**

It states the experience of the product by the user

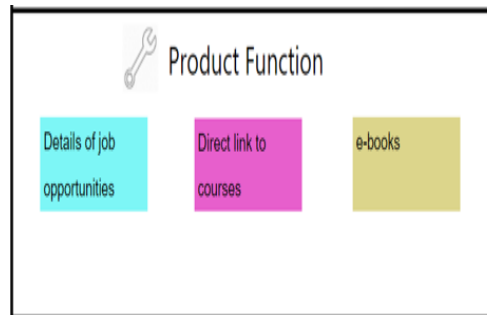
- Better accessibility
- Availability of resources
- Found it useful



- **Product Function**

It states the function of the product

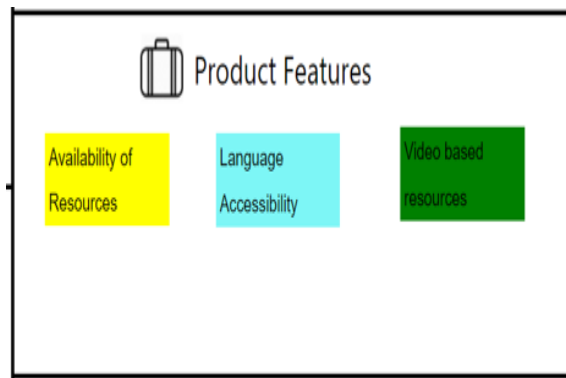
- Details of job opportunities
- Direct link to courses
- E-books



- **Product Features**

It states the features of the product

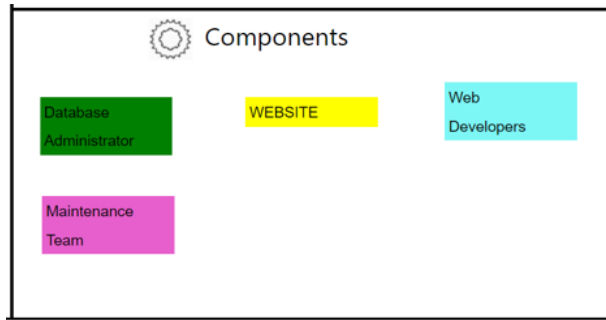
- Availability of resources
- Language Accessibility
- Video-Based Resources



- **Components**

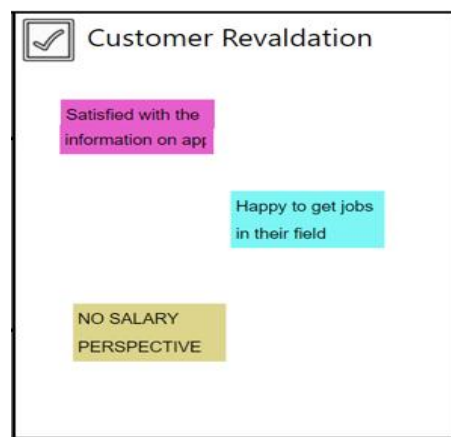
It includes things that are needed for the product

- Website
- Web Developers
- Database Administrator
- Maintenance Team



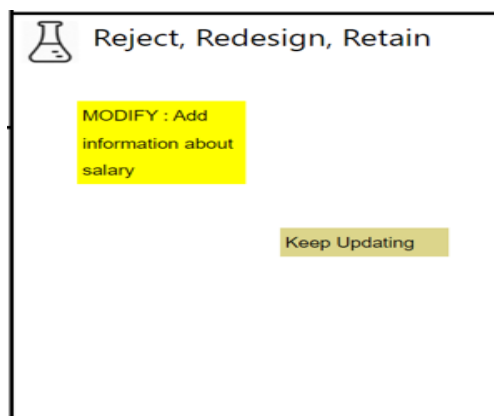
- **Customer Revalidation**

It includes reviews of the customers that used the product



- **Reject, Redesign, Retain**

It includes features that are rejected or asked to be redesigned or features that are retained.



5.1 Prototype Canvas

Flowchart:

