

GUJARAT TECHNOLOGICAL UNIVERSITY

Chandkheda, Ahmedabad

Affiliated



Apollo Institute of Engineering

Anasan, Ahmedabad

A Report on-
MatWithData

Under subject of
DESIGN ENGINEERING – 2A
B. E. Semester –5th
Computer Engineering

Sr.	Name of Student	Enrollment No.
1.	Love Barot	161283107001
2.	Darsh Modi	151280107024
3.	Lucky Agrawal	151280107001
4.	Payal Prajapati	161283107010

Asst. Prof. Kajol Soni
(Department of Computer Engineering)

Asst. Prof. Naveen Kandwal
(Head of Department Computer
Engineering)

CERTIFICATE

Date:

This is to certify that the project entitled “MatWithData” has been carried out by “Love Barot(161283107001),Agrawal Lucky(151280107001), Payal Prajapati(161283107010), Darsh modi(151280107024)” under my guidance in fulfillment of the Design Engineering – 2A, - 5th Semester, Degree of Bachelor of Engineering in Computer Engineering of Gujarat Technological University, Ahmadabad during the academic year 2016-2017.

Name of Guide

Asst. Prof. Kajol Soni

Head of Department

Asst. Prof. Naveen Kandwal

CANDIDATE'S DECLARATION

We have finished our project report entitled “**MatWithData**” and submitted to our respective guide. We are in 4th semester and we have tried to give our best. We have done our work honestly and in a good way.

First Candidate's Name : Love Barot
Branch : Computer Engineering
Enrollment No. : 161283107001
Signature :

Second Candidate's Name : LuckyAgrawal
Branch : Computer Engineering
Enrollment No. : 151280107001
Signature :

Third Candidate's Name : Payal Prajapati
Branch : Computer Engineering
Enrollment No. : 161283107010
Signature :

Fourth Candidate's Name : Darsh Modi
Branch : Computer Engineering
Enrollment No. : 151280107024
Signature :

Submitted to:
Apollo Institute of Engineering
Anasan, Ahmedabad

ACKNOWLEDGEMENT

MatWithData would have Candidate registration, document verification, auto-generated User ID and pass for candidate and Voters. Admin Login which will be handled by Election Commission .Candidate Login which will be handled By Candidate, Voters will get Unique ID and Password, Using which they can vote for a Candidate only once per Election. The project is beneficial for Election Commission, Voters as the can get to know the candidate background and choose wisely, and even for Candidate. The software system allows the Candidate to login in to their profiles and upload all their details including their previous milestone onto the system. The admin can check each Candidate details and verify the documents, only after verifying Candidate's ID and Password will be generated, and can remove faulty accounts. The software system allows Voters to view a list of Candidates in their area. The admin has overall rights over the system and can moderate and delete any details not pertaining to Election Rules.

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1. Introduction

1.1 What is Design thinking?

Design Thinking is a methodology used by designers to solve complex problems, and find desirable solutions for clients. A design mindset is not problem-focused, its solution focused and action oriented towards creating a preferred future. Design thinking draws upon logic, imagination, intuition, and systemic reasoning, to explore possibilities of what could be—and to create desired outcomes that benefit the end user (the customer).

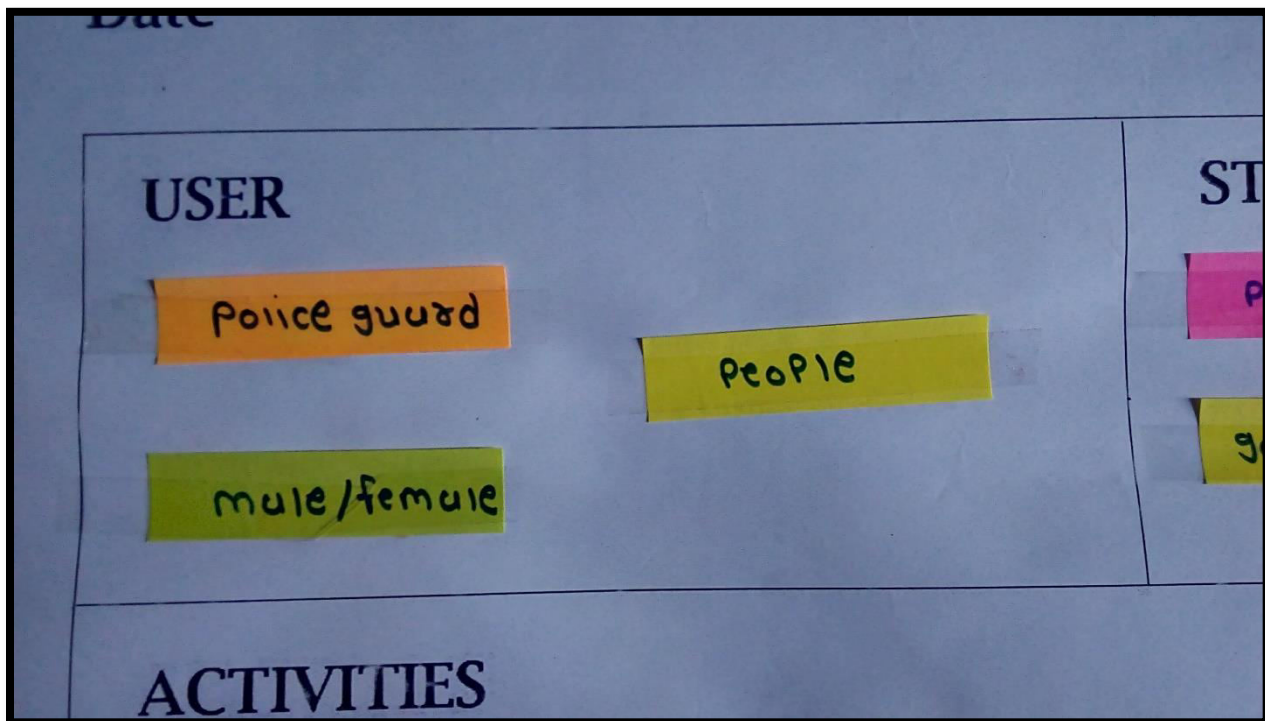
2 .Empathizing Canvas

- Empathy Mapping Canvas is made up of USERS (Who uses the product), STAKEHOLDERS (Who have the ownership of product), and ACTIVITIES (What kind of works can be done by this product).

- **2.1 :Deciding users:-**

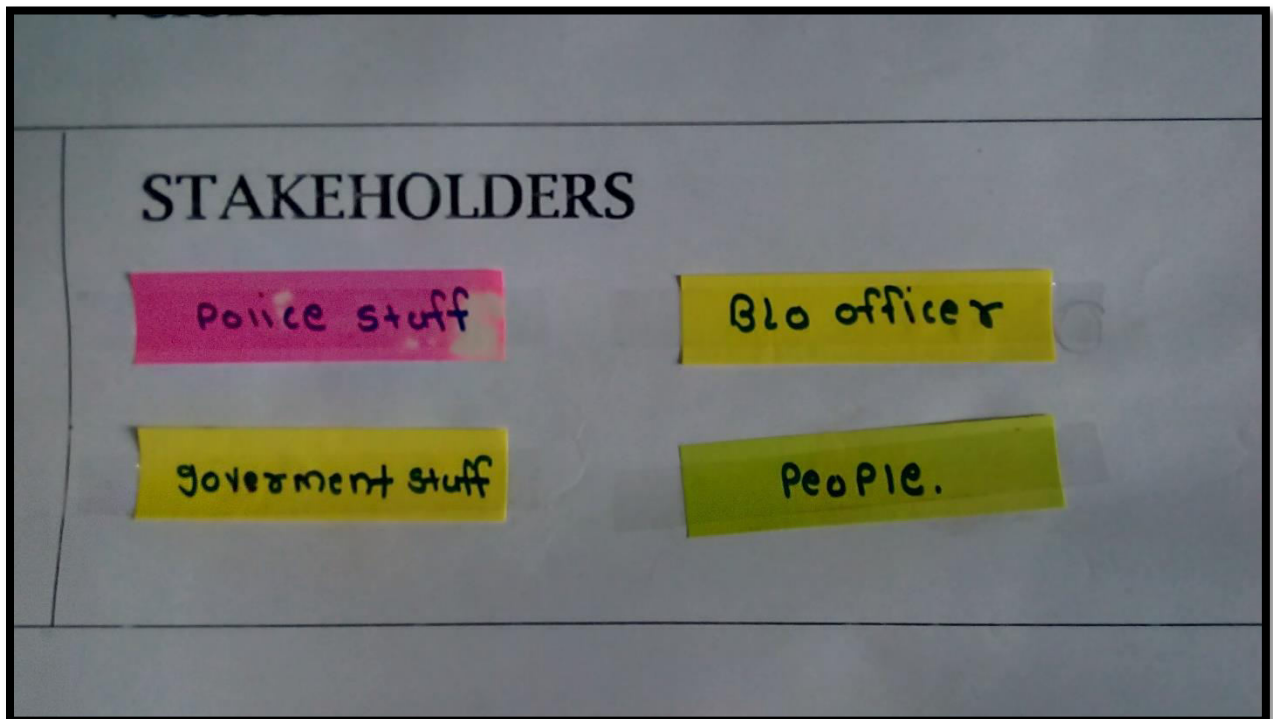
For our topic MatWithData , there are some users like police guard , people male/female etc.

Which is part of this activity.



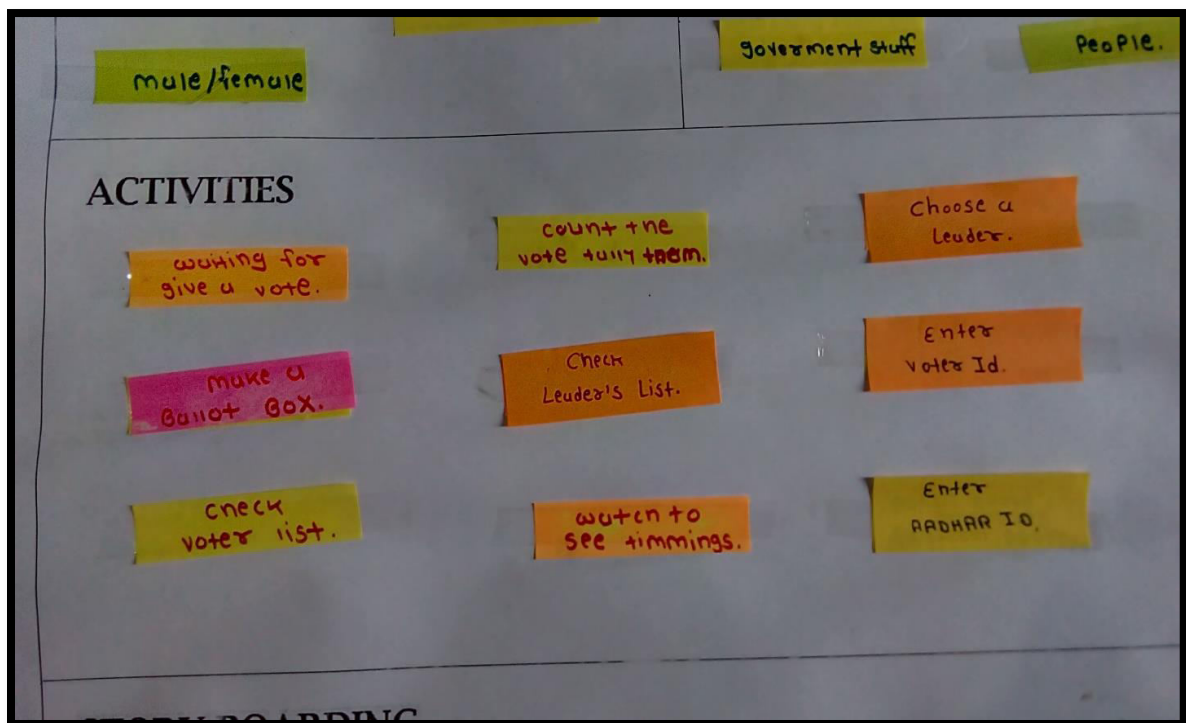
■ 2.2 :Stack holders:-

- We have different type of stakeholders like police staff, BLo officer, Government staff, people. etc.



■ 2.3 : Activity:-

- This are the activity which responsible for failure of our purpose.
- These are the activity which responsible for failure of work we want to complete and also identify which things get involves in this activity.
- There are so many activities like check voter list, check leader list, enter voter id, Enter Aadhar id etc.



■ 2.4: STORY:-

- 2.4.1: Happy story :

check voter list.

watch to see timings.

Enter AADHAR ID.

STORY BOARDING

HAPPY :- People or senior citizen use used a india election system using individual voter id. in this voter id creates people name in the voter list and give the vote for the one time particular person. this is the one happy story for india citizen.

HAPPY :- People use give a vote for particular person. this is "just unprofessional you talking about the candidate number, demand you discuss with your coworkers at end of the day." and people use give your vote in ballot box. it is second happy story for india citizen.

the execution

- **2.4.2: Sad Story:**

is "just unprofessional you talking about the candidate in the way, demand you discuss with your coworkers at end of the day." and people are give your vote in ballot box. it is second nappy story for india citizen.

SAD :- the first story in this story RAM is go to the election booth for give a vote in the ballot box for particular person. but RAM is SAD because the in this time RAM is long time stand in line. for give a vote. and check the voter list to the government stuff. it is one time spend process this is one SAD story for RAM.

SAD :- MAYANK is 19 years old boys. his go to the election booth for give a vote. but few to some reason MAYANK is not give a vote for this year but MAYANK name is not considered in the voter list. because the missing the his voter id. so, this reason MAYANK is not give a vote. it is one SAD story for MAYANK.

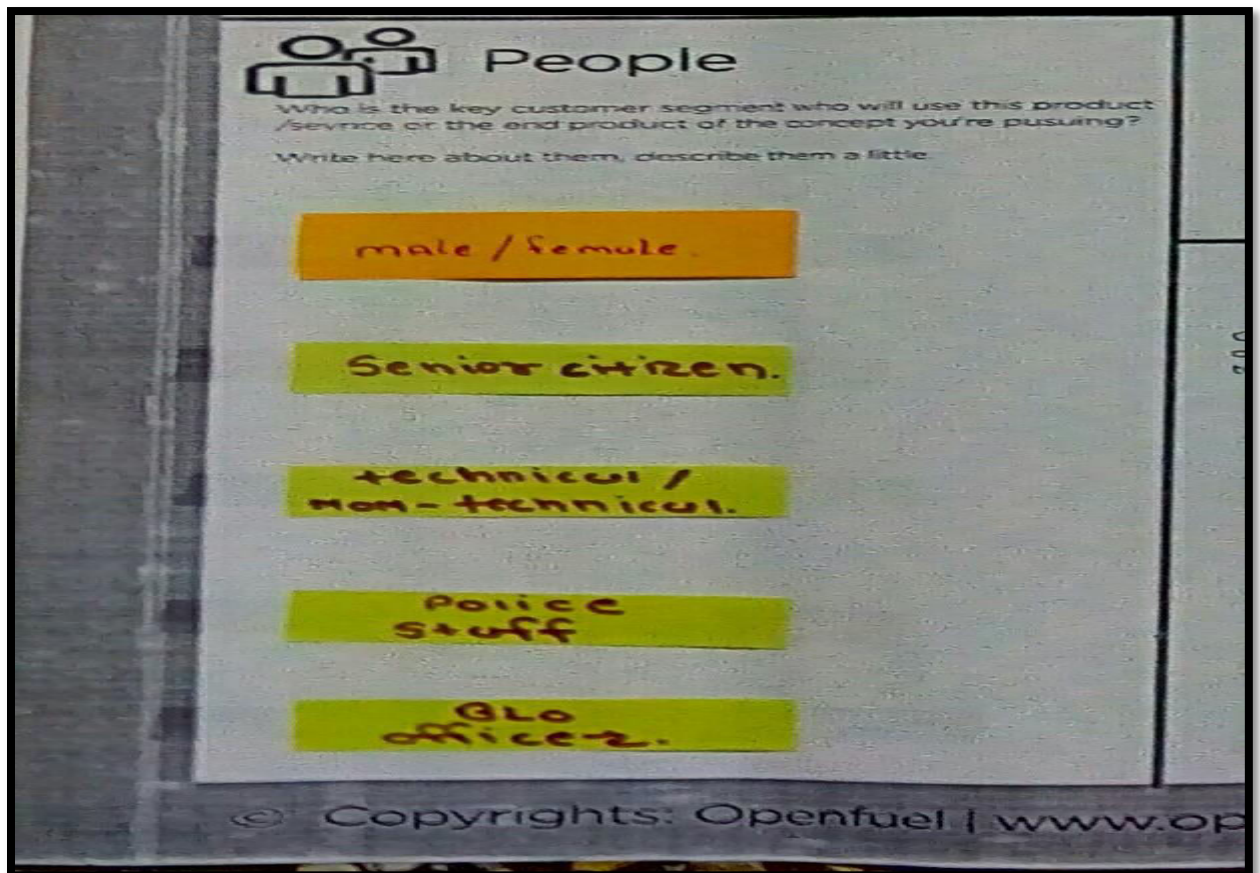
3 - Ideation canvas

- An **ideation canvas** is a rough whiteboard where ideas can be stretched into any limits or dimensions. **Ideation** session is not aimed at finding solutions to the defined problem. But to define the best possible problem and stretch out it's possible.

- Ideation canvas is made up of PEOPLE (Who can use), ACTIVITIES (What kind of works can be done by this product), SITUATION /CONTEXT /LOCATION (On which place this technology can be use), PROPS
- /POSSIBLE SITUATIONS.

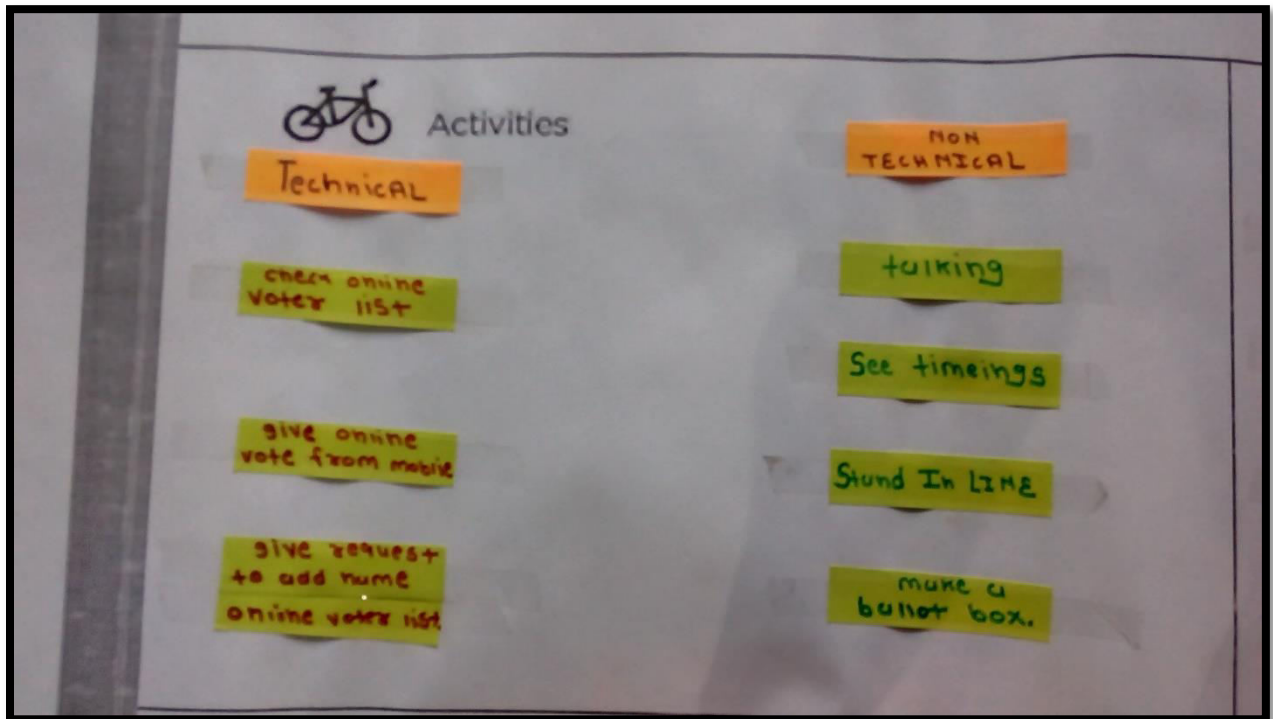
■ 3.1:People:-

- Looking forward a set of different people involved was peeped into. We came out with following idea on involvement of people.
- People are the users associated with the application.
- There are so many people senior citizen, BLO officer, technical-non technical person etc.



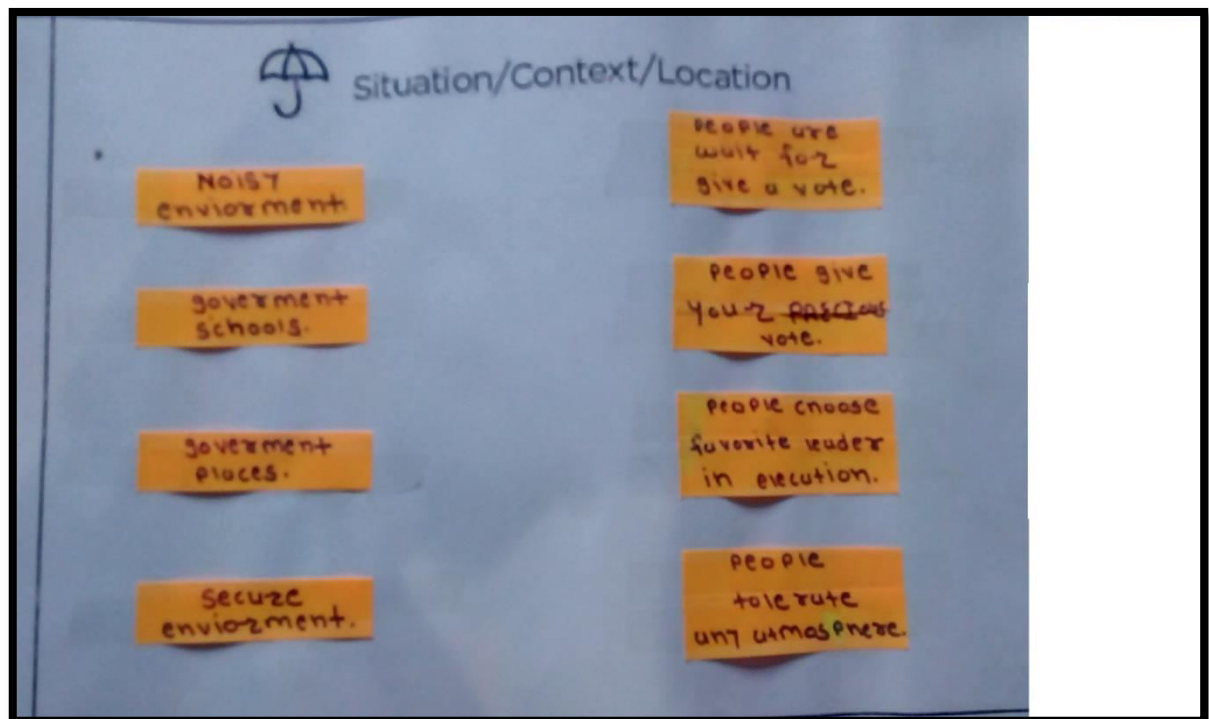
■ 3.2 :Activities:-

- With the thought on people involved in different activities, an attempt was made to think up in possibilities of various activities. Elaboration at maximization is essential here at the stage while identifying activities.
- Activities are check voter list, give a vote to leader, enter Aadhar id etc.



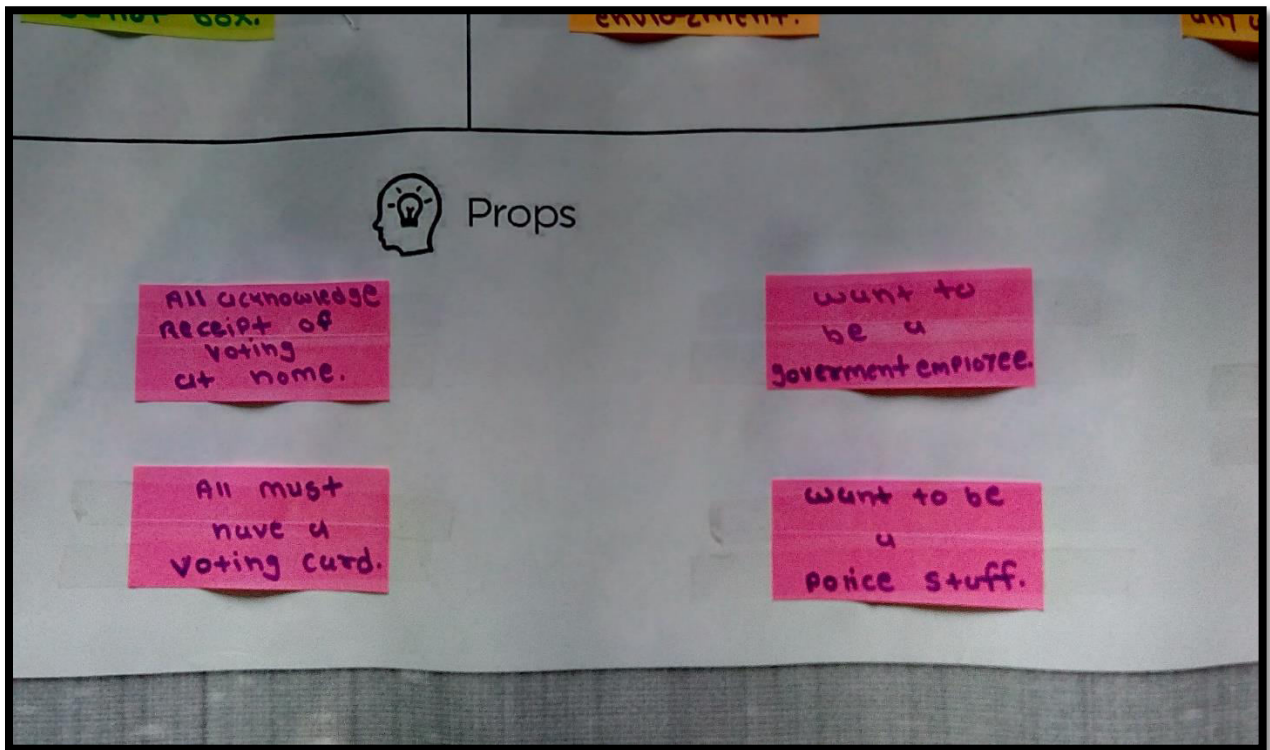
■ 3.3: Situations / Context / Location:-

- With the number of people identified doing many activities, we attempted to identify different locations that are involved in performing such activities, situations that are applied to perform certain activities and context of importance that was relevant to activities. Different types of ideas we came up with the following.
- Situations: noisy environment, government school, government places, etc.



■ 3.4: Props/ Possible solution:-

- This section of the ideation canvas help in carving out different requirement in –line with attempting / looking forward to have an idea about addressing a problem some of the solution regarding to problem as below.
- Various props like want to be a government employee, all must have a voting card etc are necessary.



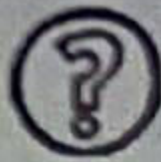
4 - Product Developing Canvas

- A product development canvas is the ground where in the best possible ideas after the ideation session are pitched and nurtured to develop.
- Product development canvas made up of PURPOSE (Why this technology needs to be invented), PEOPLE (Who can use), PRODUCT EXPERIENCE (How is experience by using this product), PRODUCT FUNCTIONS (Main functionality of this product), PRODUCT FEATURES (features of this product), COMPONENTS (What kind of hardware/software has been used), /feedback), REJECT/REDESIGN/RETAIN (Decision or advice of customer). REVALIDATION

■ 4.1: Purpose:-

- In this we have described the purpose of making this product. Why we are making this product. What's our main aim?
 - (i) Secure process
 - (ii) Chance to people to give a vote
 - (iii) Continues process
 - (iv) Chance to choose leader

Product Development



Purpose

What is the purpose of this concept you're developing?
Does it solve a problem, or it enhances a certain experience?
Is it serving a need or it is trying to create a new need or tap
an untapped need?

Continuous
Process

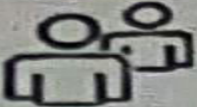
Secure
Process

Chance to people
give a vote.

Chance to Choose
A Leader

■ 4.2: People:-

- This portion contains the user who can use this product.
- To whom this product is useful.

 **People**

Who is the key customer segment who will use this product /service or the end product of the concept you're pursuing?

Write here about them, describe them a little

male / female.

Senior citizen.

technical / non-technical.

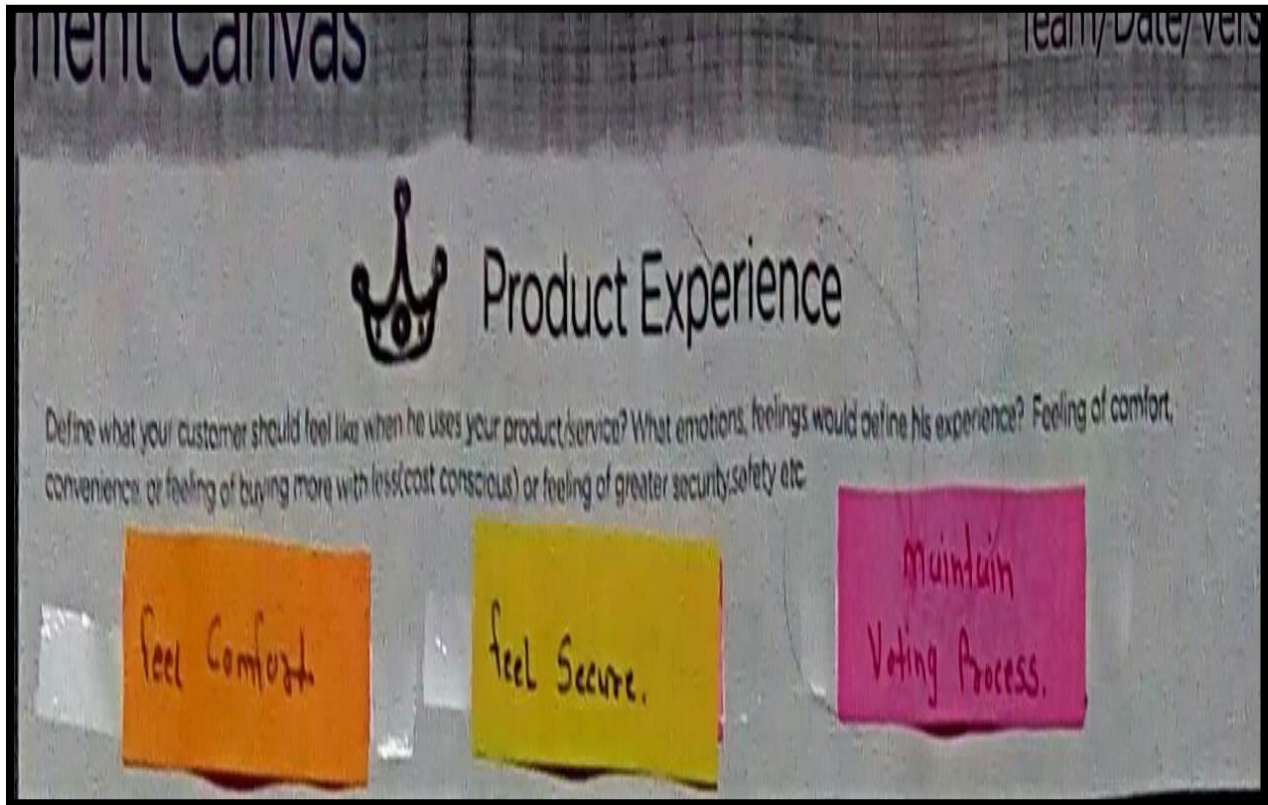
Police stuff

GLO officerz.

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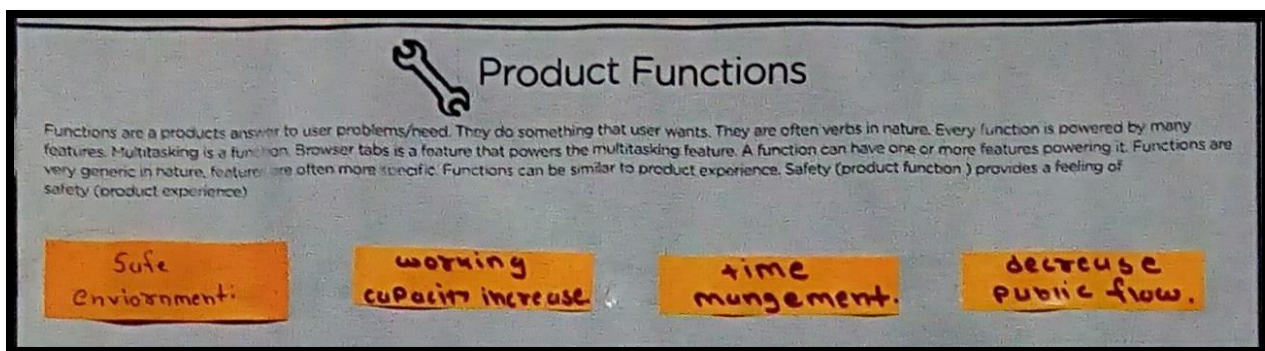
■ **4.3:Product Experience:-**

- In this section we now that how the people felt who used our product.



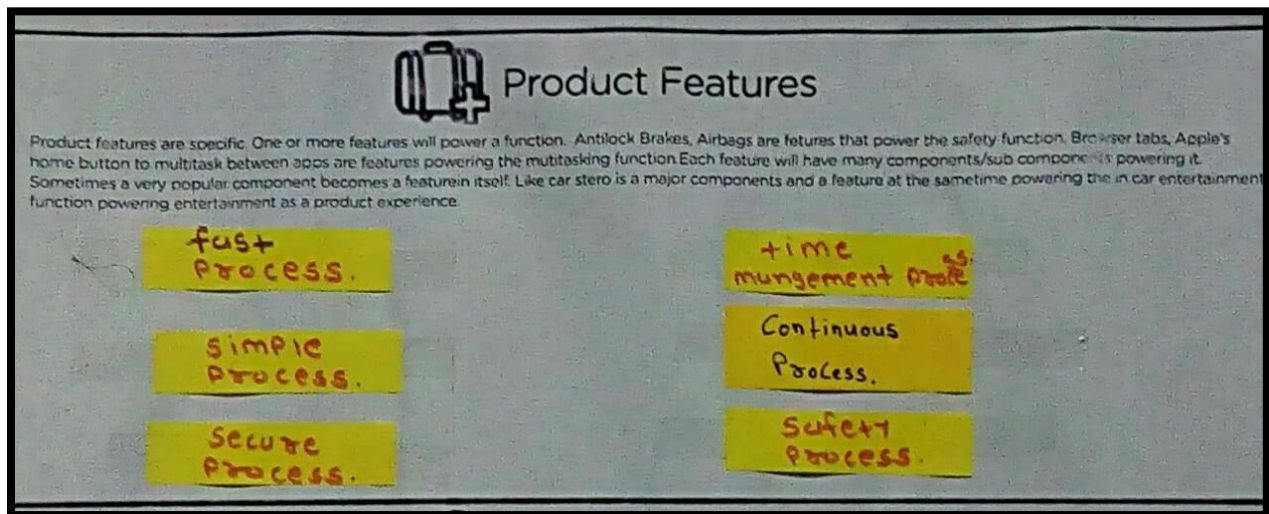
■ 4.4:Product function:-

- Product Function includes how product will be helpful other than it features.
 - (i) Safe environment
 - (ii) Time management
 - (iii) Working capacity increase



■4.5:Product features:-

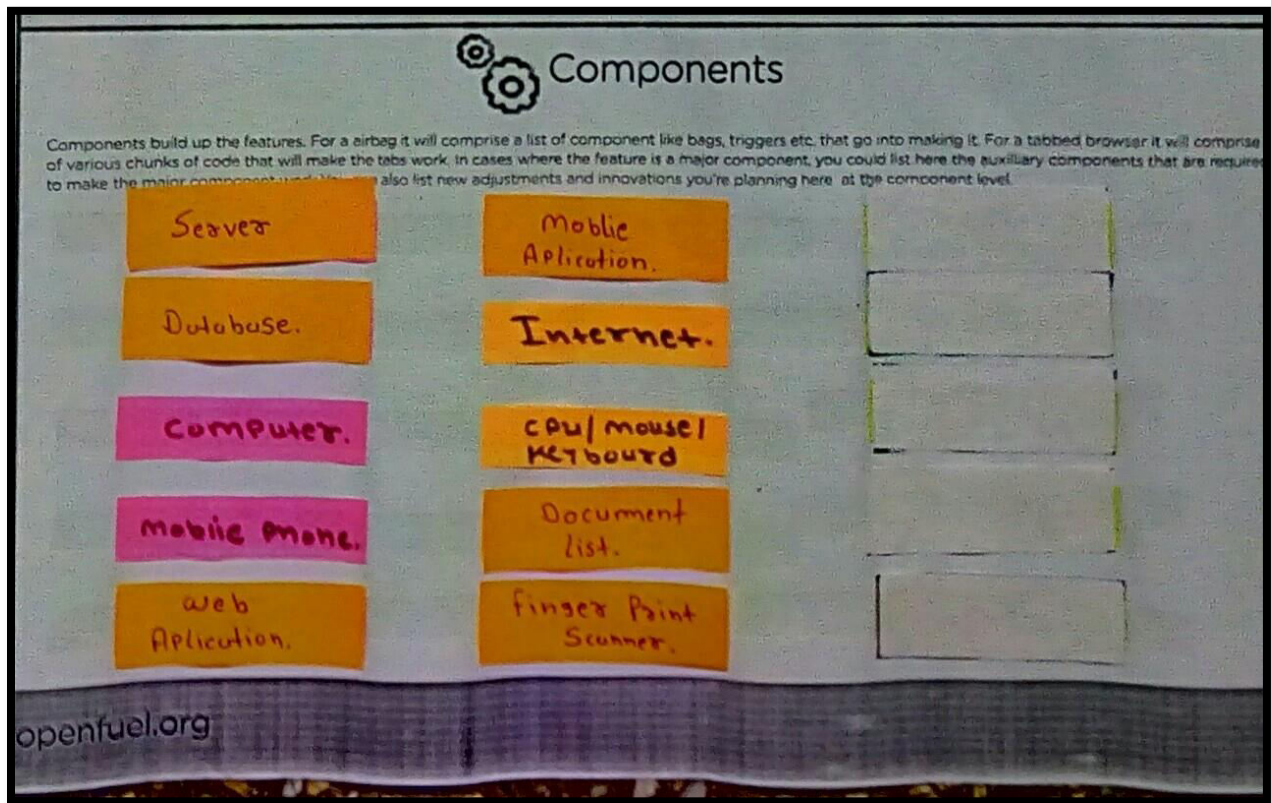
- Features of the Product are included in this section. What are the options, specifications of the Product are known as Product Features.
 - (i) Fast process
 - (ii) Time management process
 - (iii) Simple process
 - (iv) Secure process
 - (v) Safety process



■ 4.6: Components:-

The Components which are used in making the product are included in this

- (i) internet
- (ii) Database
- (iii) Mobile phones
- (iv) Web application



5:-AEIOU FRAMEWORK

▪ 5.1:Activities:-


- This portion contains the collection of all the activities which we have observed from first day till the last day of our observation.

AEIOU framework:

Group id: 11057 Date: Sheet No: 1

Project Name : MatWithData

Activities

General impressions / Observations	Sketch/photo- Summary of activities
<p>Talking</p> <p>make a ballot box</p> <p>check voter list</p>	
<p>Elements, features and special notes</p> <p>marker pen</p> <p>BALLOT BOX</p> <p>Computer.</p>	

(Signature)

5.2: Environment:-

AEIOU framework:

Group id: **11057** Date: Sheet No: **2**

Project Name : **MatWithData**

Environment

General impressions / Observations
(Style, materials & atmosphere)

Crowd

Noisy

Turned

Elements, features and special notes

Police guard

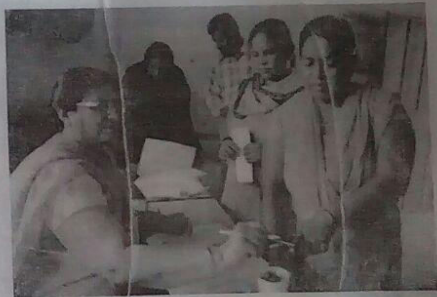
Noise Buzbies

Booth level officer

Scene

■ 5.3: Interactions:-

- Interaction between customers and video company is very important part of framework.
- This includes the conversation which we have done with people, objects during observation, and also the other people were doing.

ELOU framework:		Group id: 11057	Date:	Sheet No: 3
<h2>Interactions</h2>		Project Name : MatWithData		
General impressions / Observations (Who is interacting with whom, what?)		Scene of interection (How it is being done)		
<p>people</p> <p>discussion of election</p> <p>police stuff</p>				
Elements, features and special notes				
<p>location board</p> <p>chairs/tube</p> <p>benches</p>				

▪ 5.4: Objects:-

- This Section is completely filled up with all the nonliving things. Through this section we could also know many things.
- From this section we could know how different objects play role in the process and which also show the possibility of the problems.

AEIOU framework:

Group id: 11057 Date: Sheet No: 4

Objects

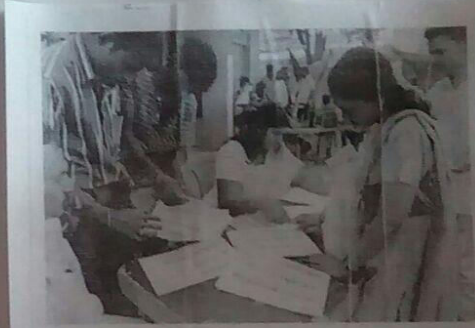
Project Name : MatWithData

<p>General impressions / Observations (What components are involved?)</p> <p>people using Ball Pen</p> <p>watches to see timings</p> <p>throw rubbish in dustbins.</p>	<p>Inventory of key objects</p> <p>News Paper</p> <p>Scanner.</p>
<p>Elements, features and special notes (How objects are relating to the activities?)</p> <p>Dustbins</p> <p>watch</p> <p>Ball Pen.</p>	

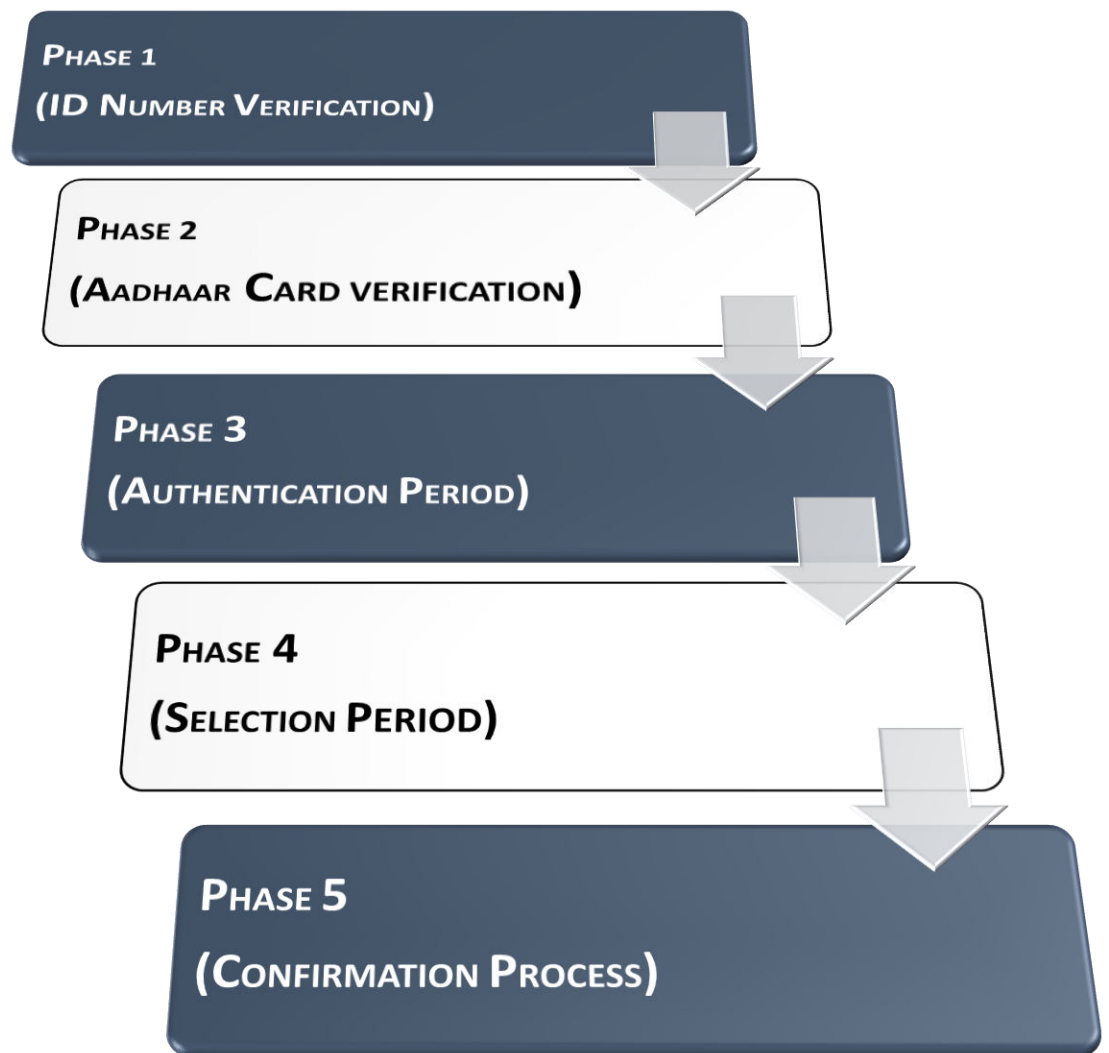
Signature

▪ 5.5: Users:-

- Users are the person which are involved during the observation and in the observation. They are the person who have played the roll.

AEIOU framework:		Group id: 11057	Date:	Sheet No: 5
<h2>Users</h2>		Project Name : MatWithData		
<p>General impressions / Observations (Who is present roles & responsibilities?)</p> <p>people</p> <p>male/female</p> <p>Senior citizens.</p>	<p>Scene of users in context</p> 			
<p>Elements, features and special notes (List of identified people involved)</p> <p>Police stuff</p> <p>government stuff</p> <p>male/female.</p>				

6 - Flowcharts



7 -Phase 1,2

