

## DESIGN THINKING PHOTOCOPY

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## EMPATHIZE PHASE

Places such as Xerox shop, Stationery, and Canteen are usually overcrowded by students in college.

In the crowded Xerox shop, it becomes difficult for the students to manage time as well as the shop owner to manage the customers. This may cause several problems for students, such as late submission of work, long wait in the queue, unable to print the required documents, etc.

Miscommunication may happen between the shopkeeper and the student due to which student may get the wrong printout. This is a problem for both students and the shopkeeper. Because of the long queue shopkeeper may lose some customers.



## **College Photocopy Shop**



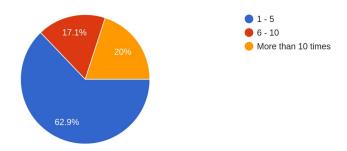




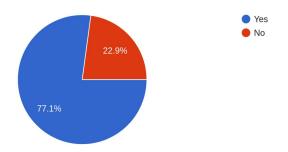
### **Tools used in Empathy Stage**

- 1. Questionnaire
- 2. Interview
- 3. SWOT Analysis
- 4. STP Analysis
- 5. Competitor Analysis

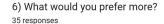
4) How often do you visit Photocopy (Xerox) shop of the college in a month? 35 responses

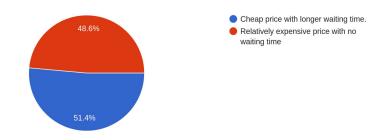


5) Have you compared the prices with printing costs outside the college? 35 responses

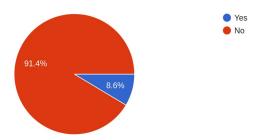




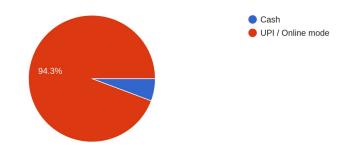




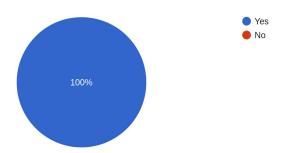
7) Does the college schedule permit you time, to wait in queues? 35 responses



8) Which mode of payment do you use? 35 responses



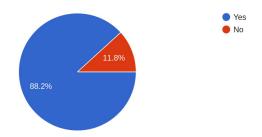
9) Have you ever come back from Photocopy (xerox) shop because the queue was long? 35 responses





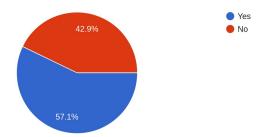
11) Have you ever paid more money outside to get the printout because of the crowd in the college Photocopy (xerox) shop?

34 responses

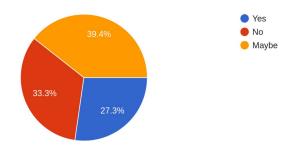


12) Have you ever received printouts in wrong format because of miscommunication due to the crowd?

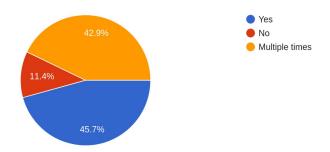
35 responses



14) After COVID times, do you fear crowd? 33 responses



15) Did you experience a scenario where a person who came later got the print first? 35 responses



6)

11)

## **Questionnaire for Shopkeeper**

- What is the peak hour of the day?
- 2) How difficult does it become to handle the crowd in the shop?
- 3) How many people handle the shop operations?
- How many machines do you have in working condition? 4)
- Have you ever thought of increasing the number of machines? Why? 5)

How common it is to experience miscommunication due to crowd?

- Are you able to manage the crowd? 7)

- 9) How stressful is it to respond to all customers during crowd?
  - How many times have you experienced customers not paying amount or the right amount?
- 8) Is maintaining more number of machines feasible?

How do you keep track of customers who give for printout and collect later?

10)

## **SWOT** Analysis



## **STP Analysis**

#### STP Model

#### SEGMENTATION

- Photocopy, Project binding, Color Printing, Report generation
- Mode of sale is offline
- Mode of payment is online or offline
- Students and teachers are end users
- A4 and A3 style papers,
   bond paper

#### TARGETING

- Students looking for affordable services
- Students expecting different photocopy services inside the campus
- Teaching and non teaching staff

#### POSITIONING

- Affordable prices
- Variety of services
- Easy access
- Available from morning to evening

## **Competitor Analysis**

#### **Inside Campus**

- Easily accessible
- Facilities are mostly accessed by students and staff
- Photocopy, Project binding, Color Printing, Report generation
- Cheaper price compared to opposite of college

## Opposite to college

- Crossing of busy road is required
- Facilities are accessed by general public along with students
- Lamination, Photocopy, Project binding, Color Printing, Report generation
- Costlier than other near by shops

#### **Near Global City**

- 2 K.M of travelling is required
- Facilities are accessed by general public along with students
- Photocopy, Project binding, Color Printing
- Most affordable

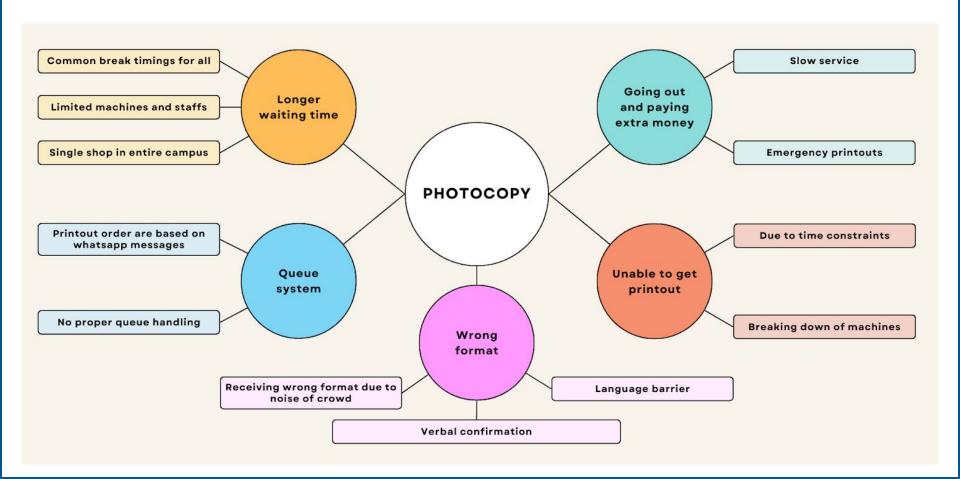


## DEFINE PHASE

## **Ranking of Clusters**

- Longer waiting time
- No proper queue system
- Getting printouts in wrong format
- Going outside and also paying extra for the photocopy
- Unable to get the phototcopy on time because of crowd

## **Affinity Diagram**



### 4 W's of Define Phase

- Who is experiencing the problem?
  - Students who need to take printout during peak hours are experiencing the problem
- What is the problem?
  - Long waiting time
  - Huge crowd
  - No proper queue
- Where does the problem present itself?
  - The problem can be experiences inside the college campus
  - Photocopy shop inside the college campus
  - Additionally, teaching and non-teaching staff may be involved
- Why does it matter?
  - It may save time
  - It may provide proper queue system
  - It may provide a way to manage the crowd



#### Problem:

Due to huge crowd in the photocopy shop, it gets difficult for the students to get their work done on time.

#### Background:

From personal experience, we decided to conduct a survey and analysis. The results of the survey shows that most of the students return back without getting their work done.

#### Details:

On further observation, we found that the crowd is at peak during break and lunch time as well as during assignment and project submission time every semester.

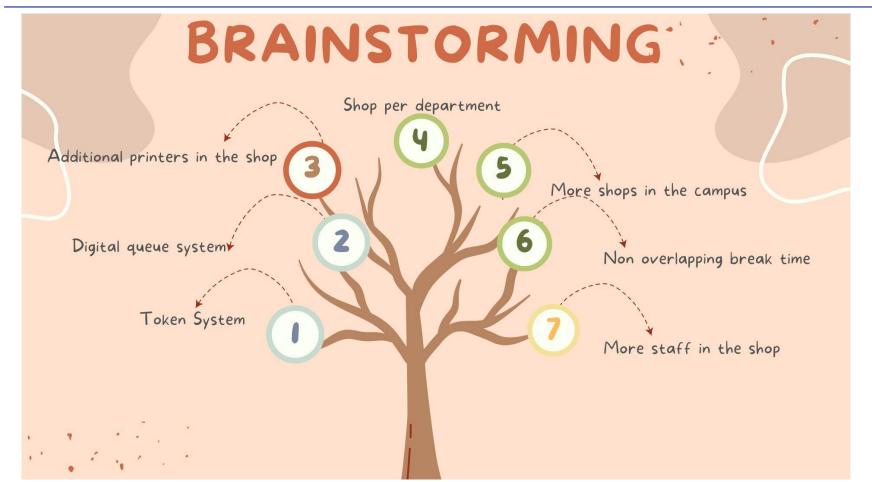
#### Impact:

It may impact the submission time of the assignments to be submitted by the students.



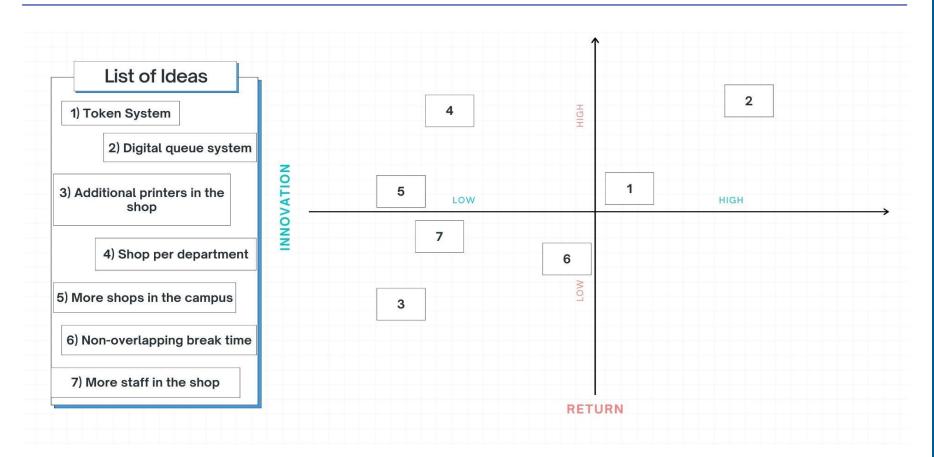
# IDEATE PHASE







### **Innovation V/S Return Matrix**





## Thank You!