

# **TASK #01**

**PRODUCT  
FAILURE  
ANYLYSIS**

# PRODUCT FAILURE ANALYSIS

## Task Details:

- 1. Identify and Fix the product
- 2. Explore its features which may lead to product failure
- 3. prepare an Excel sheet like the example dataset

- Here is the link for Product Failure analysis in Excel sheet form
- [https://1drv.ms/x/c/0819ba5b964f4300/EZ8Yby5VoZIJkkYko\\_rxbIYB0X5c6cO\\_8sXdFCrbkJQgpQ?e=9IXkrP](https://1drv.ms/x/c/0819ba5b964f4300/EZ8Yby5VoZIJkkYko_rxbIYB0X5c6cO_8sXdFCrbkJQgpQ?e=9IXkrP)

A solid red arrow pointing to the right, positioned to the left of the section header.

## Complex Problem Table

# Complex Problem Table:

Course Name	College Name	Batch Number	Task No	Task Name
AI & Machine Learning	SVU University	2024-ML-01	1	Introduction to AI
Data Science	AU Institute	2023-DS-02	2	Data Cleaning
Cyber Security	BHEEMA College	2025-CS-03	3	Ethical Hacking Basics
Web Development	NANI Academy	2024-WD-04	4	HTML & CSS Basics
Cloud Computing	VISHNU University	2023-CC-05	5	AWS Fundamentals

# TASK #03



## PRODUCT CONFIGURATOR FLOWCHART :

# PRODUCT AND TOOL :

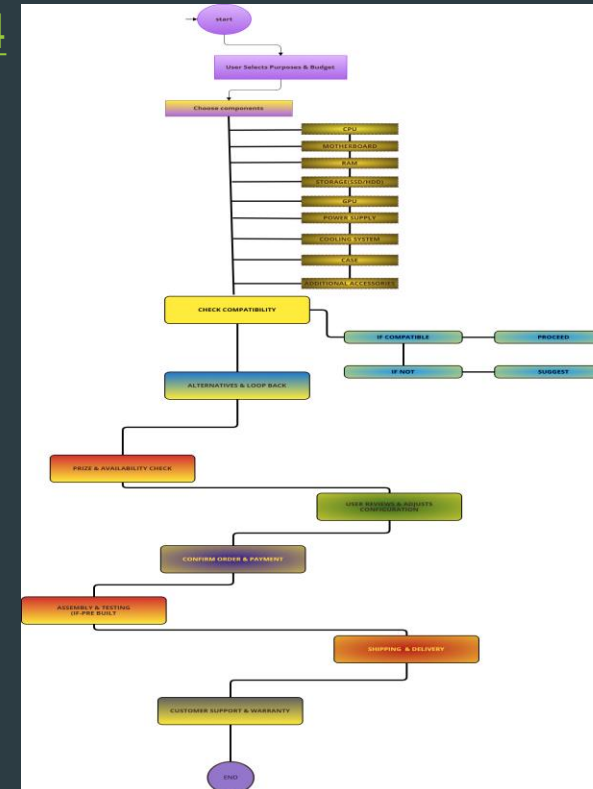
## Product: Custom PC Builder

- ▶ Tool: [PCPartPicker](#)
- ▶ Description:
- ▶ PCPartPicker is a popular tool that allows users to configure and build their own custom PC. It helps ensure compatibility between components like CPUs, GPUs, RAM, and motherboards while providing price comparisons from different retailers.
- ▶ Building a custom PC involves selecting compatible components, ensuring performance efficiency, and finalizing the setup through validation, assembly, and support

# LUCID CAHRT -FLOWCHART LINK:

► The lucid chart link:

<https://cacoo.com/diagrams/S06LMI1fLkAnXas5/19D34>





# TASK #04



## USER PERSONA

# DEMOGRAPHIC INFORMATION

(PERSONA NAME AND PERSONAL INFORMATION)

- **Demographic Info:**

**Name:** "NANI."

**Age:** 28-35.

**Location:** Urban areas.

**Job:** SOFTWARE ENGINEER in a tech company.



### **Goals & Objectives:**

Alex aims to streamline project management and improve team collaboration.

### **Psychographic Info:**

Values efficiency, tech-savviness, and work-life balance. Interested in productivity tools and innovation.

### **Behavioral Patterns:**

Frequent app user, seeks user-friendly design, and engages with online communities for tips.

### **User Journey:**

Discovers your product via social media, tries a free version, and eventually upgrades after seeing results.

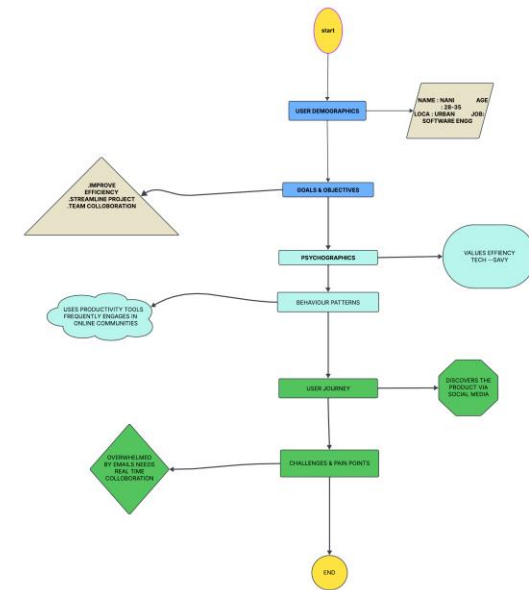
### **Challenges & Pain Points:**

Struggles with overwhelming email threads, needs real-time collaboration, and seeks simple integrations.

# FLOWCHART :

- LUCID CHART LINK:

[https://lucid.app/lucidspark/d7e18acb-af9b-402f-914e-3b61b80ea824/edit?viewport\\_loc=-2179%2C-726%2C6179%2C3463%2C0\\_0&invitationId=inv\\_3f368d65-11b0-4837-9270-2260c6764d0c](https://lucid.app/lucidspark/d7e18acb-af9b-402f-914e-3b61b80ea824/edit?viewport_loc=-2179%2C-726%2C6179%2C3463%2C0_0&invitationId=inv_3f368d65-11b0-4837-9270-2260c6764d0c)





# TASK #05

# AI FRIDGE USER JOURNEY MAP

# INTRODUCTION :

- **TITLE:** AI FRIDGE USER JOURNEY MAP
- **SUBTITLE:** UNDERSTANDING THE STAGES OF USER INTERACTION WITH AN AI-POWERED REFRIGERATOR
- **IMAGE:** SMART FRIDGE WITH AI TECHNOLOGY



# AWARENESS (DISCOVERY) & CONSIDERATION (EVALUATION)

- **USER ACTION:** LEARNS ABOUT THE AI FRIDGE THROUGH ADS, SOCIAL MEDIA, OR WORD OF MOUTH.
- **TOUCHPOINTS:** SOCIAL MEDIA, BLOGS, YOUTUBE, GOOGLE SEARCH, RETAIL STORES.
- **USER GOALS:** UNDERSTAND THE AI FRIDGE'S FEATURES AND BENEFITS.
- **PAIN POINTS:** HIGH COST, UNCERTAINTY ABOUT AI CAPABILITIES.
- **OPPORTUNITIES:** CREATE ENGAGING CONTENT, FEATURE DEMONSTRATIONS, CUSTOMER TESTIMONIALS.

## • EVALUATION

- **USER ACTION:** EXPLORES AI FRIDGE FEATURES, COMPARES BRANDS, READS REVIEWS.
- **TOUCHPOINTS:** MANUFACTURER WEBSITES, PRODUCT DEMOS, CUSTOMER REVIEWS, STORE VISITS.
- **USER GOALS:** ASSESS HOW THE AI FRIDGE MEETS THEIR NEEDS.
- **PAIN POINTS:** COMPLEXITY, UNCLEAR PRICING, CONCERNS ABOUT MAINTENANCE.
- **OPPORTUNITIES:** PROVIDE DETAILED SPECIFICATIONS, FAQs, AND USER TESTIMONIALS



# ONBOARDING (ADOPTION)& ENGAGEMENT (USAGE & LEARNING)

- **USER ACTION:** PURCHASES THE AI FRIDGE, SETS IT UP, CONNECTS IT TO A SMART HOME SYSTEM.
  - **TOUCHPOINTS:** IN-STORE OR ONLINE PURCHASE, SETUP GUIDES, CUSTOMER SUPPORT.
  - **USER GOALS:** SUCCESSFULLY INSTALL AND START USING THE AI FRIDGE.
  - **PAIN POINTS:** COMPLEX SETUP, CONNECTIVITY ISSUES.
  - **OPPORTUNITIES:** STEP-BY-STEP SETUP GUIDES, DEDICATED CUSTOMER SUPPORT, VIDEO TUTORIALS.
- **USER ACTION:** USES AI FRIDGE FEATURES LIKE INVENTORY TRACKING, AUTOMATIC SHOPPING LIST CREATION, AND TEMPERATURE CONTROL.
  - **TOUCHPOINTS:** FRIDGE INTERFACE, MOBILE APP, SMART ASSISTANT INTEGRATION.
  - **USER GOALS:** MAXIMIZE CONVENIENCE AND EFFICIENCY.
  - **PAIN POINTS:** LEARNING CURVE, AI MISINTERPRETATIONS.
  - **OPPORTUNITIES:** PERSONALIZED RECOMMENDATIONS, INTUITIVE APP INTERFACE, ADAPTIVE LEARNING.

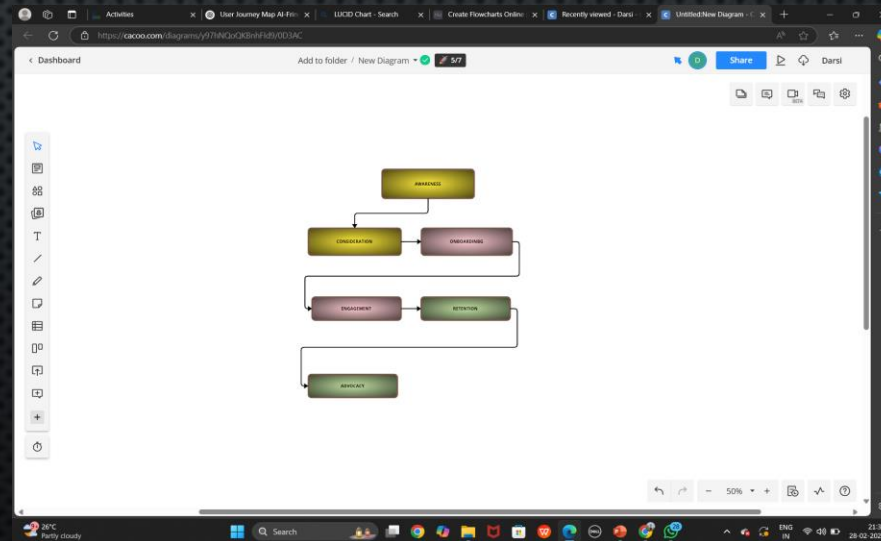


# FLOWCHART AND LUCID CHART LINK

LUCID CHART LINK :

[HTTPS://CACOO.Y97HNQoQKBnHFId9/0D3ACCOM/DIAGRAMS/](https://CACOO.Y97HNQoQKBnHFId9/0D3ACCOM/DIAGRAMS/)

LUCID CHART FLOWCHART JPG:



# TASK #06



---

## *SMART AI VACUUM CLEANER – USER JOURNEY STORYBOARD*

# AWARENESS (DISCOVERY) & CONSIDERATION (EVALUATION)

---

- **User Action:** John sees an ad for the AI Vacuum Cleaner while scrolling social media



**For evaluation :**

- **User Action:** He researches online, watches product demos, and reads reviews





# PURCHASE & UNBOXING , FIRST USE & CUSTOMIZATION & DAILY USAGE & SMART FEATURES

---

- **User Action:** John orders the vacuum online and unboxes it at home.
- **User Action:** He connects the vacuum to Wi-Fi and customizes cleaning schedules in the app.
- **User Action:** The AI Vacuum starts cleaning automatically while John relaxes.



# ISSUE & CUSTOMER SUPPORT & RETENTION & FEATURE UPDATE & ADVOCACY & REFERRAL

---

- **User Action:** The vacuum gets stuck under the couch, and John receives an app alert.
- **User Action:** John receives a software update for improved obstacle detection.
- **User Action:** John shares his experience on social media and refers a friend.



# THE FINAL OUTPUT :

---





# T A S K # 1 2

## **USER JOURNEY MAPPING**




# TASK DETAILS:

- Create an Example for a product where it needs the following
- 1.User Research - Conduct a User research for any product
- 2.Persona Creation
- Imagine you are going to create a product for a Startup, where you need to create a user persona covering the following features
- Demographic Information (Persona name and personal information)
- -Goal and Objectives
- 'Psychographic Information (interest, choices and Personality traits)
- Behavior and Preference
- -User Journey
- -Challenges and Pain Points





- Here is the link of user journey mapping using lucid chart
- [https://lucid.app/lucidspark/7c723faf-7f3b-4d32-9743-817dc6b85e7d/edit?viewport\\_loc=-1190%2C-1331%2C4093%2C1896%2C0\\_0&invitationId=inv\\_d74a52dc-a851-4783-bb17-a777faf67d44](https://lucid.app/lucidspark/7c723faf-7f3b-4d32-9743-817dc6b85e7d/edit?viewport_loc=-1190%2C-1331%2C4093%2C1896%2C0_0&invitationId=inv_d74a52dc-a851-4783-bb17-a777faf67d44)



# **TASK # 15**

**DESIGN THINKING  
BOARD**

## ● **DESIGN THINKING BOARD:**

- Imagine that you are Entrepreneur of a business, you are asked to prepare a design Thinking board
- **Task Details:**
  - 1. Fix a product for your business and identify the ambiguous problem in the product
  - 2. Find a solution for the problem using Design Thinking board in Lucid chart template



- Here is the link for design thinking board using lucid chart
- [https://lucid.app/lucidspark/f9520e52-e80f-400e-941a-ff3c4601c97c/edit?view\\_items=EPcVwOy9W7zS&invitationId=inv\\_25772dfa-47f4-4599-abf7-458129028b65](https://lucid.app/lucidspark/f9520e52-e80f-400e-941a-ff3c4601c97c/edit?view_items=EPcVwOy9W7zS&invitationId=inv_25772dfa-47f4-4599-abf7-458129028b65)



# TASK #16

INFERENCE  
MAPPING

# INFERENCE MAPPING

## Task Details:

- ♦ Collect one reference article for any one of the given problems
- ♦ Create Inference report for the article collected

- Here is the link of Inference mapping using lucid chart
- [https://lucid.app/lucidspark/d42e494a-7fd4-4570-8c66-e33b64598241/edit?view\\_items=1FaVhtbY~z\\_G&invitationId=inv\\_db1e7fcf-cc71-43e0-b086-f522a7ac8da2](https://lucid.app/lucidspark/d42e494a-7fd4-4570-8c66-e33b64598241/edit?view_items=1FaVhtbY~z_G&invitationId=inv_db1e7fcf-cc71-43e0-b086-f522a7ac8da2)