

## **Brainstorm process-**

- I gathered the user requirements through a requirements elicitation process
- I analyzed the problem statement and the various outcomes of executing the project
- I analyzed the various approaches to solving the problem. Went through some research papers about how a similar problem was solved
- I decided on the tools to use and features to implement
- I prioritized the various product features to implement
- I worked on implementing the product

## **Product Requirements-**

- Read patient data from dataset and extract relevant information (patient id, name, age, gender, medical conditions, medications)
- Fetch clinical trial data from clinicaltrials.gov website
- Parse trial data to extract relevant fields (trialId, trialName, age range, inclusion criteria, exclusion criteria)
- LLM model (gpt-3.5-turbo), OpenAI chat-completion api
- Write output data to a file

## **Plan for MVP-**

### **1. Goal-**

- To launch a tool to help providers recruit patients for clinical trials based on patients eligibility criteria

### **2. Core features-**

- User Authentication
- Patient dashboard
- Clinical trials dashboard
- Provider dashboard

### **3. Product Requirements-**

- Database – NoSQL DB to store large volumes of unstructured patient and clinical trial data
- Frontend- React or Angular
- Backend – Node – Express / Python – Django
- Use of AI tools – LLM models – OpenAI chat completions api
- Real time updates
- Notifications