Ideation Phase
Empathize & Discover

Date	19 September 2022
Team ID	592004
Project Name	Project - Alzheimer's Disease Prediction
Maximum Marks	4 Marks

Empathy Map Canvas:

An empathy map is a simple, easy-to-digest visual that captures knowledge about a user's behaviours and attitudes.

It is a useful tool to helps teams better understand their users.
Creating an effective solution requires understanding the true problem and the person who is experiencing it. The exercise of creating the map helps participants consider things from the user's perspective along with his or her goals and challenges.

Example:

Says

Talks about possible ways to change moving forward

"We want to work pragmatically and proportionately"

"COVID has fast-forwarded change"

"This is an opportunity to work differently, moving beyond 'box ticking'"

"We want to work within the evidence base"

"This is an opportunity to make care more patient-centred"

Thinks

"I'm not going to cope seeing all of those patients again"

"It's going to be so much work catching up"

"Surely there has to be another way?"

"Which of my patients are going to be further disadvantaged because of this?"

"What services already exist that we can utilise for CDM changes?"

"This is an opportunity for more patient choice which is exciting/terrifying"

"Which patients am I going to miss if we don't have annual recall?"

Does

Drafts plans for changes to working

Nothing and denies that a change is needed

Starts collecting and reviewing data on CDM groups, compliance etc.

Starts to look at the available evidence base

Starts to reach out to colleagues and peers about what changes would be appropriate

Starts to make changes to how the practice communicates with patients

Staff engaged in chronic disease post-COVID

Worried about their vulnerable/high needs patients

Excited about trying something different

Worried/anxious that they'll be overwhelmed

Concerned about the impact on continuity

Feels

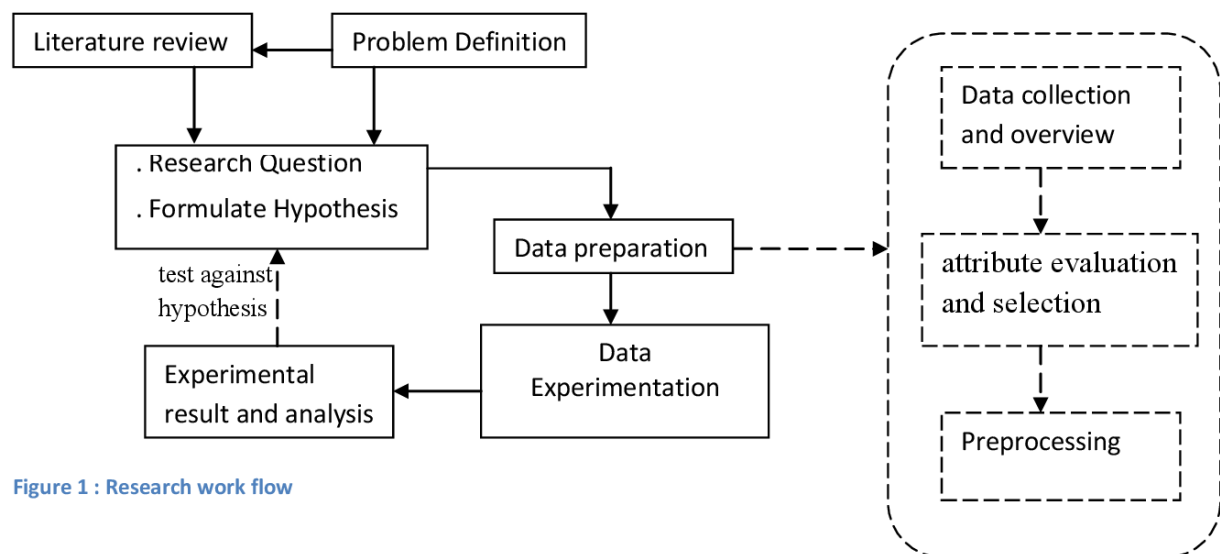Worried about the changes and whether they'll be consulted

Tired

Eager to make the most of this opportunity for change

Figure 1 : Research work flow

DATASET PREPROCESSING

Incomplete data, redundant features, encoding, correlation analysis, missing values, imbalanced targets

EXPLAINABILITY

Global and local interpretability using SHAP

HYPOTHESIS TESTING

Phase 1	Phase 2	Phase 3	Phase 4	Phase 5	Phase 6

DATA ANALYSIS

Features and subjects examination

MACHINE LEARNING

Random Forest and XGBoost

VALUABLE CONCLUSIONS