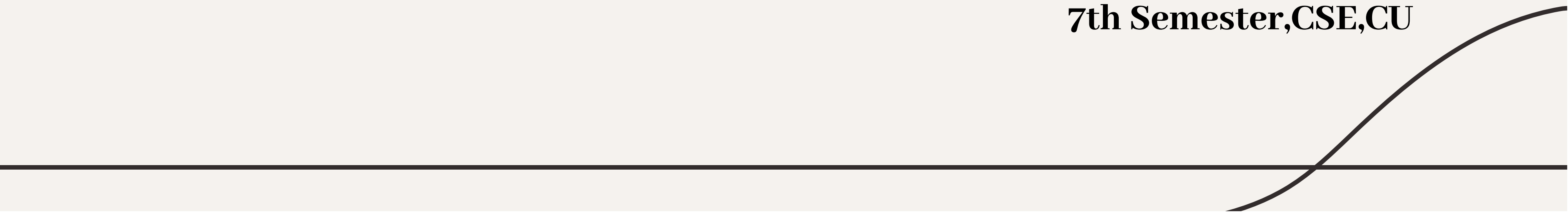




# Laptop Selection Recommendation System

USING PROLOG

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# INTRODUCTION



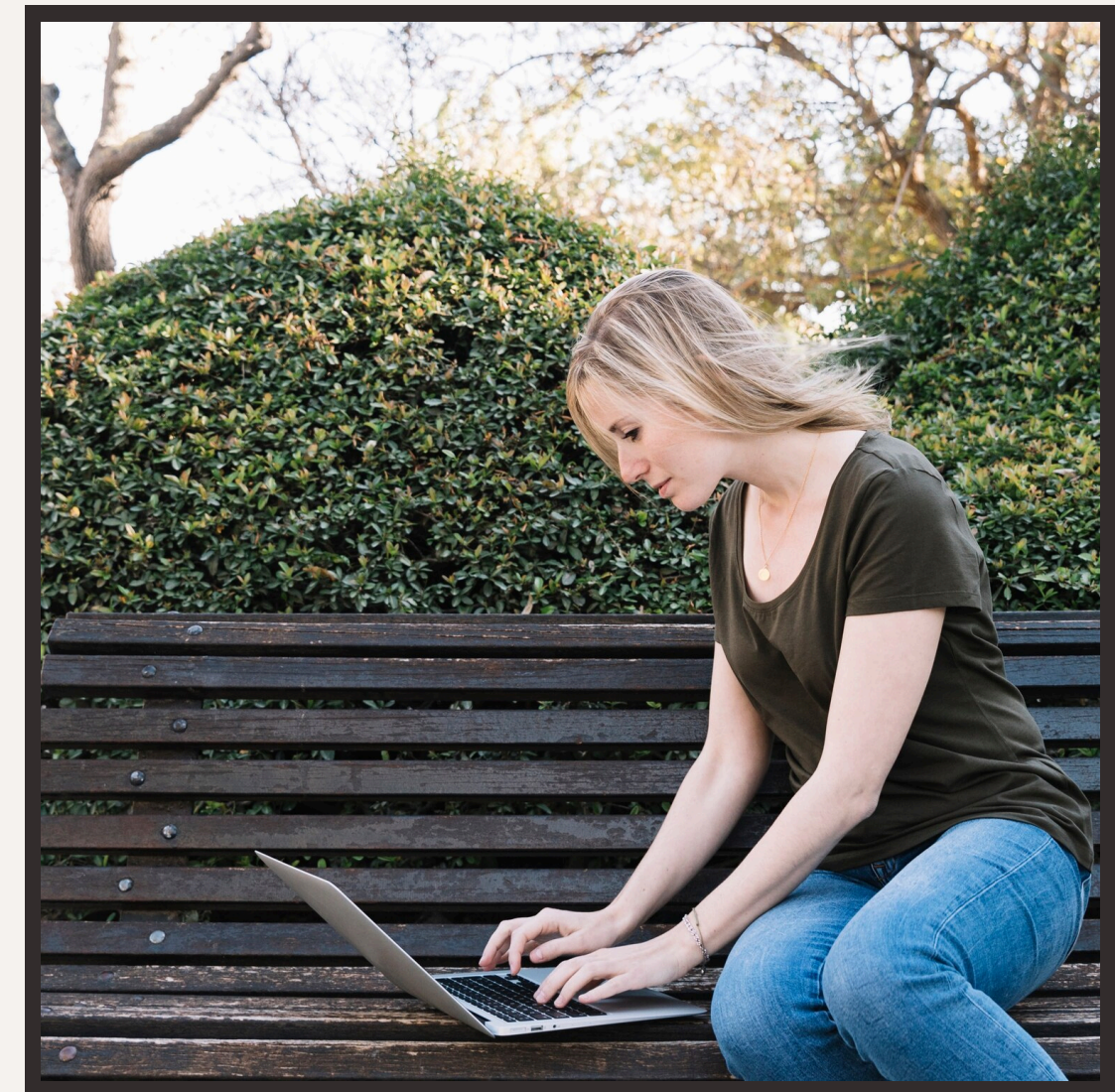
The "Laptop Selection Recommendation System" is a

Prolog-based intelligent system designed to assist users in selecting the most suitable laptop based on their preferences, usage requirements, and budget constraints. With the increasing diversity of laptops available in the market, users often find it challenging to identify a device that best fits their needs. This system simplifies the decision-making process by asking a series of targeted yes/no questions and providing personalized recommendations. This system is divided into three categories: daily use, programming, and gaming & designing. Moreover, this system leverages Prolog's rule-based logic for precise and dynamic decision-making.



# PROBLEM STATEMENT

At present, there are about 70 ongoing laptop brands in the whole world. Out of them, 7 are the major brands. The brands divide the laptops in categories like-budget, gaming, coding, designing, editing, office work, and so on. So, while buying a laptop, a user have number of options. Different users have unique requirements. For this reason, there is a need for a system that can assist users in selecting suitable ones based on their preferences and use cases.



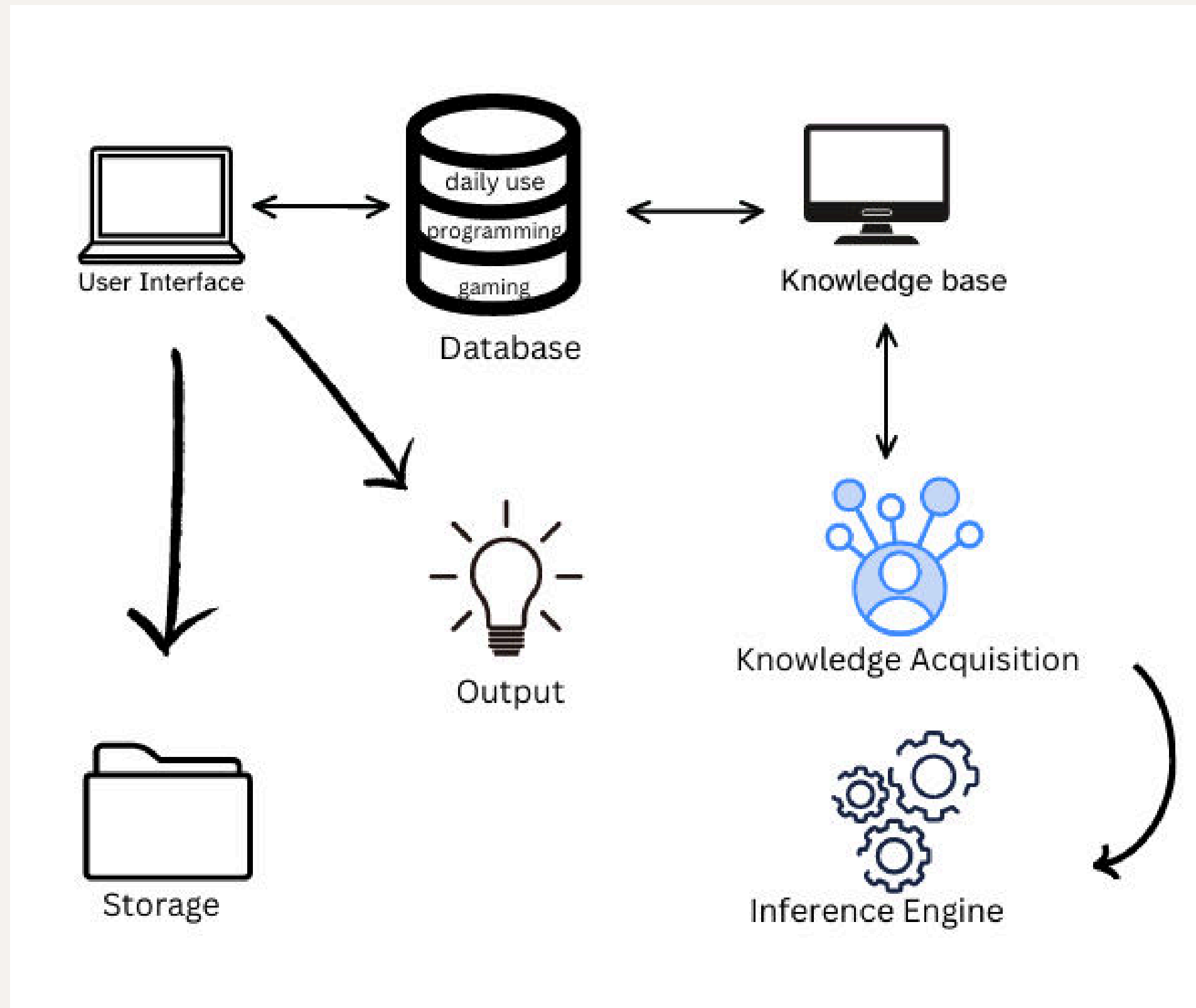
# AIMS

- To develop a recommendation system that guides users in selecting an ideal laptop.
- To simplify the decision-making process for users by asking targeted questions.
  - To provide personalized recommendations based on the user's preferences and budget.

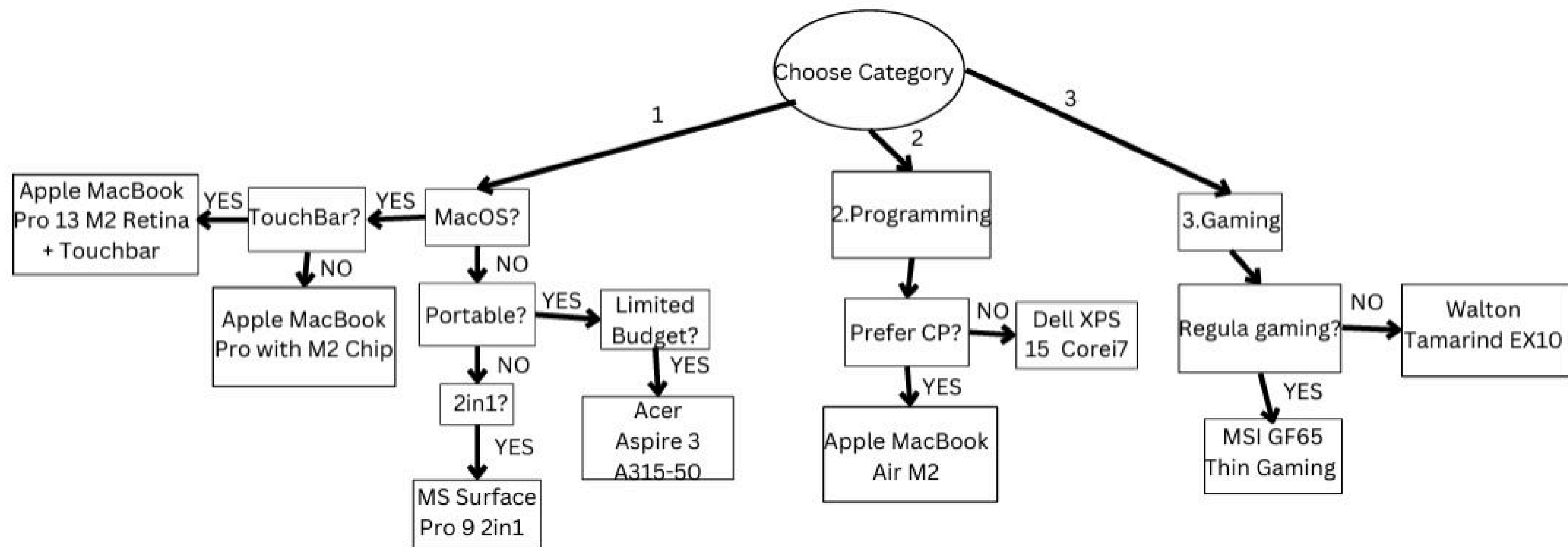
# OBJECTIVES:

- Categorize laptops into three broad categories: Daily Use, Programming, and Gaming & Designing.
- Develop a decision-making process using Prolog's rule based logic to ask users a series of questions.
- Ensure the system handles invalid inputs and guides users towards valid choices.
- Recommend a specific laptop model based on the user's answers and preferences.

# ARCHITECTURE



# SYSTEM DESIGN





# RESULT AND CONCLUSION

```
DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Progra...
Files Edit Run Compile Options Setup
Editor
Line 1 Col 1 C:\TEST.PRO Indent Insert
% Domains Declaration
DOMAINS
    response = string           % User response is
    preference = symbol         % Laptop category p
% Predicates Declaration
PREDICATES
    category(preference)        % Handl
    q1_mac                      % Handl
    q2_portable                 % Handl
    q3_touch_screen             % Handl
    q4_budget                   % Handl
    q5_2_in_1                   % Handl
    recommend(preference)       % Recom
Dialog
Welcome to the Laptop Recommendation System!
Please choose the category of laptop you are interested in:
1. Daily Use
2. Programming
3. Gaming
Enter your choice (e.g., 1 for Daily Use): S_
Message
Trace
handle_programming
handle_gaming
q1_programming
q1_gaming
F2-Save F3-Load F6-Switch F9-Compile Alt-X-Exit
```

The Laptop Selection Recommendation System offers a user-friendly, rule-based approach to help users find the most suitable laptop based on their preferences. By leveraging Prolog’s logical reasoning, it ensures accurate and personalized recommendations while managing invalid inputs efficiently.

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# Thanks!

Do you have any questions?  
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