LAPTOP SELECTION RECOMMENDATION SYSTEM

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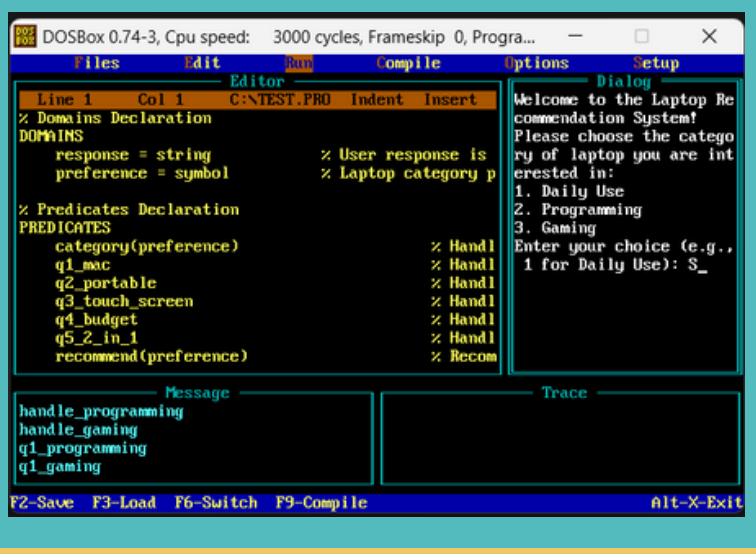
Introduction: The "**Laptop Selection Recommendation System**" is a Prolog-based tool that helps users choose the best laptop by asking targeted questions and providing personalized recommendations. It caters to daily use, programming, and gaming & designing, simplifying decisions based on user needs and budget.

AIMS AND OBJECTIVES

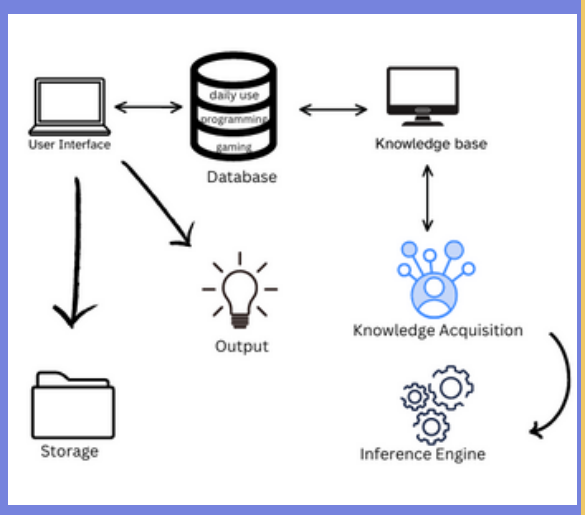
1. **Develop a Prolog-based system to recommend laptops by category, preferences, and budget.**
2. **Simplify decision-making with targeted questions and rule-based logic.**
3. **Ensure accurate guidance by handling invalid inputs effectively.**

RESULT:



ARCHITECTURE

The architecture of the Laptop Selection Recommendation System is built on a Prolog-based rule engine that uses logical reasoning to process user inputs. It consists of a knowledge base for laptop categories and specifications, a decision-making module for evaluating user preferences, and an interface for interactive question-answer sessions.

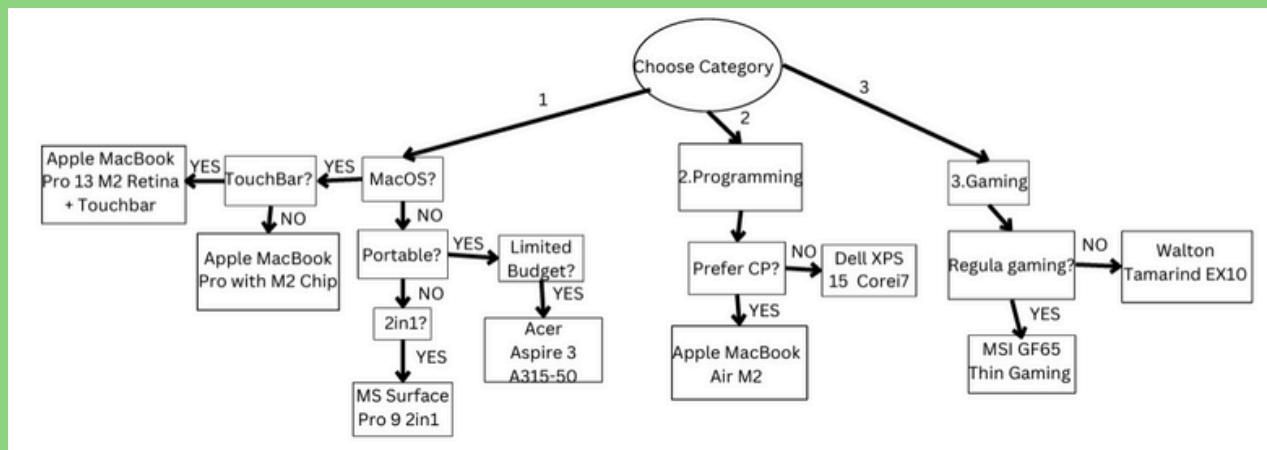


DISCUSSION

This Prolog code implements a rule-based Laptop Selection Recommendation System, where user inputs are processed through a series of queries to categorize laptops into Daily Use, Programming, or Gaming. It uses logical clauses to match preferences with recommendations, ensuring personalized results and handling invalid inputs effectively.

DESIGN

The system features a user-friendly interface, a rule-based knowledge base, and an inference engine for tailored recommendations. It supports updates via knowledge acquisition and securely stores data for refinement.



CODE LINK

Github: https://github.com/shojib068/AI_Prolog_Project

Canva: https://www.canva.com/design/DAGYVn7ssSA/nqstzXh7be4FvFn7Uk9oug/view?utm_content=DAGYVn7ssSA&utm_campaign=designshare&utm_medium=link&utm_source=editor

CONCLUSION

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.