

EXPERT SYSTEM FOR CLASS SCHEDULE MANAGEMENT

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Introduction

Prolog is a declarative language, which means that a program consists of data based on the facts and rules (Logical relationship) rather than computing how to find a solution. A logical relationship describes the relationships which hold for the given application. To obtain the solution, the user asks a question rather than running a program. When a user asks a question, then to determine the answer, the run time system searches through the database of facts and rules. In this system also we tried to implement this idea of logic programming. We developed an expert system that will inform the students about their respective daily class routine based on which semester they are currently studying in.

Development of an Expert System

An expert system is developed following some particular steps which helped us to develop our class schedule management system. The steps are:



Figure 1: Steps to build an expert system.

Class Schedule Management Expert System

In an institution there are many levels or classes or semesters where the students are allocated. And every class has different courses they need to attend. Same goes for the students of department of Computer Science and Engineering, University of Chittagong. Here there are total 8 semesters the students need to attend to complete their graduation. So to maintain all of their class schedule and let the students know about their schedule is quite difficult. So if there is an expert system that will let the students know about their daily class schedule then it will be a great help. So in this system a student will just have to answer a sim-

ple question regarding which semester they are currently studying at and the system will show them their respective class schedule for everyday. To use an expert system we need to keep in mind that every kind of person have to be able to use the system even if they don't know anything about how to create a system.

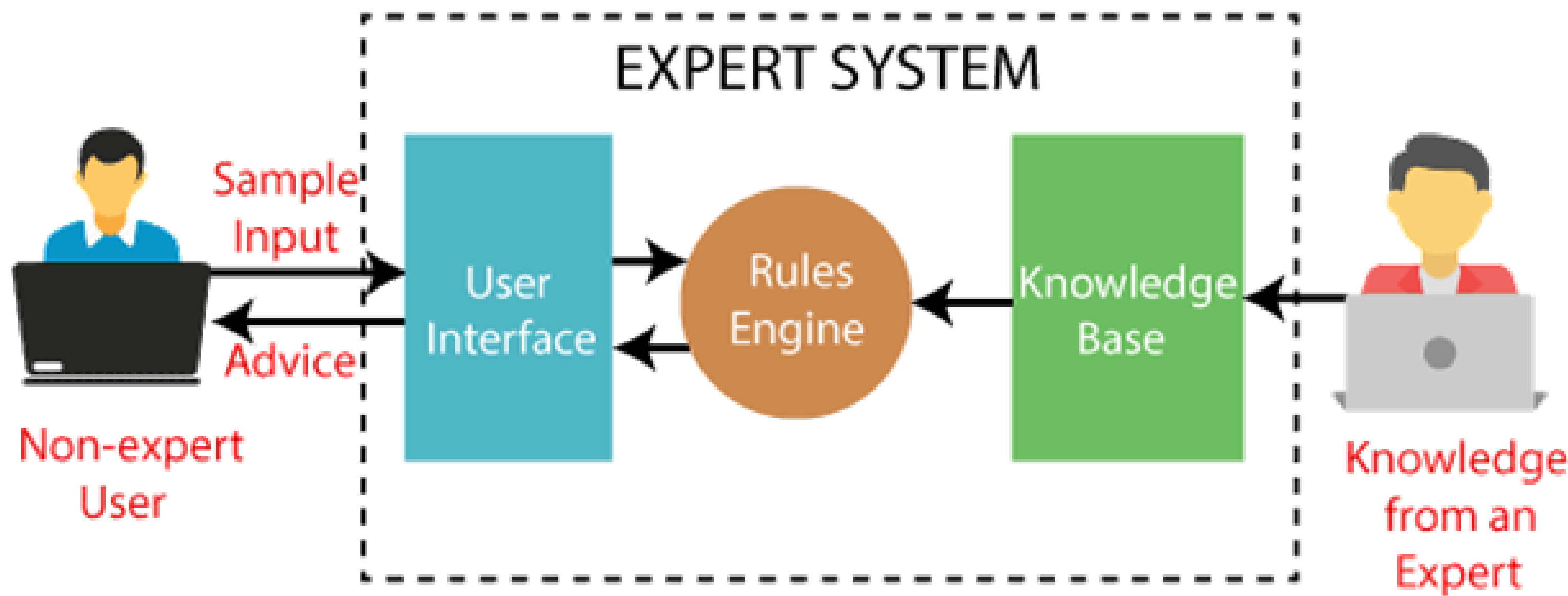


Figure 2: Working process of class schedule management expert system.

Objectives

The aims and objective of this expert system is kept similar to the real objectives of an expert system. According to the characteristics of expert system this schedule management system also aims to ensure a few things like-

- Show the students their respective class schedule
- High Performance
- Understandable to any kind of user
- Reliable
- Highly responsive to user query

Test Result

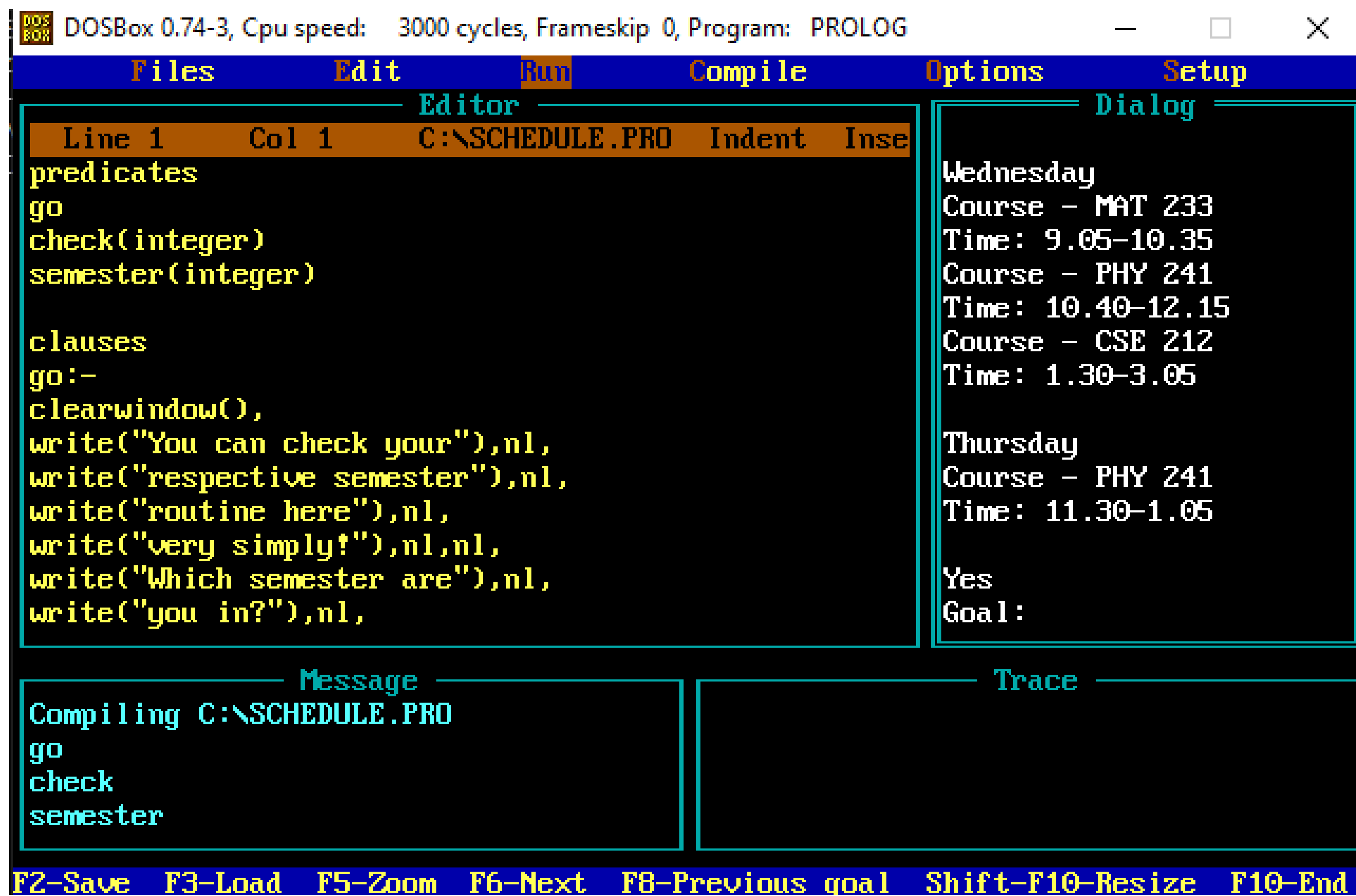


Figure 3: System Test.

Conclusion

The desired expert system shows a successful result and can answer the queries asked by the users. The system will ask the user to just enter their respective semester and then it will instantly show them the daily class schedule that they are assigned to attend. This system can further be utilized to let the students know about their exam routines also. So by using this system in a useful way we can get an expert system that will give us many features.