



Expert System on Course Suggestion after 12th

24 Samihan Inamdar
27 Pranit Jadhao
57 Adesh Ramgude

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Introduction

In this project we are implementing the Expert System for suggesting the courses for 12th students. There are certain terms which should be known for better understanding.

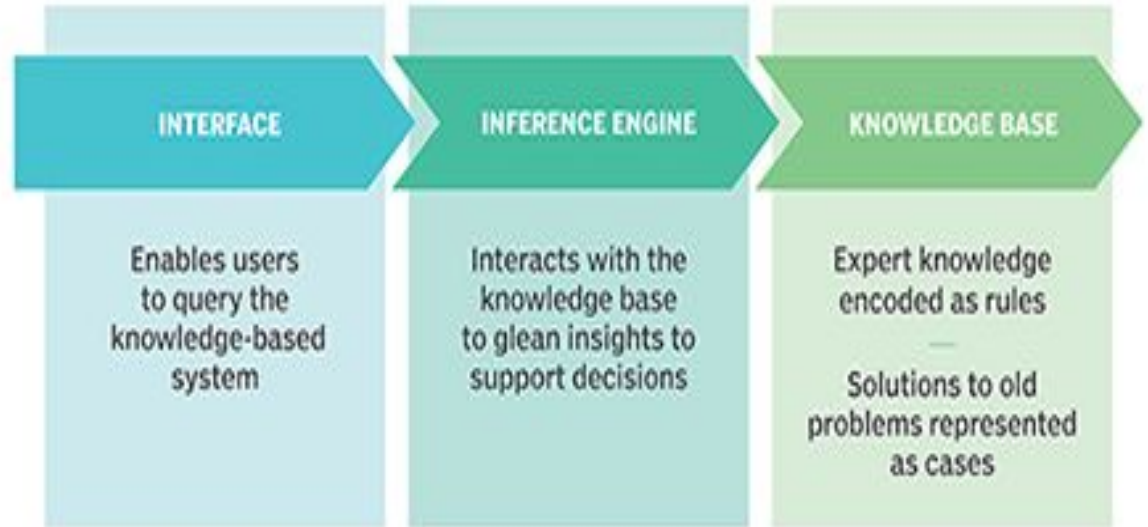
Expert System: An expert system is a computer system that emulates the decision-making ability of a human expert.

Knowledge Base: The knowledge base contains the knowledge necessary for understanding, formulating and for solving problems.

Objectives

To understand the IS term “Expert System”.

To implement Expert System using PROLOG.



Knowledge Base

IF					Then
Current Course	Marks	Interests	Skills	Family Background	Courses
Commerce	35-60			Accountant, Manager	Banking, Finance Consultancy
	60-75		Accounting, Statistics		CA, Auditing, Taxation, Insurance, BSc Maths
	75 Above	Law, Politics			LLB, Company laws, BCom Economics
Arts	35-60			Teacher, Designer	BA, BBA, Fine Arts, Fashion Designer, Animations
	60-75		Management, Communication		Hotel Management, Accounting, Mass Media, Reporting, Editing
	75 Above	Travelling, Civil Services			Journalism, MPSC, UPSC, Constitutional Laws
Science	35-60			Chemist, Engineer	BSc, Pharmacy, ITI
	60-75		Biotech, Programming		Micro-biology, Bsc Agri,
	75 Above	Medical, Engineering			B.Tech, MBBS, B.Arch



System requirements

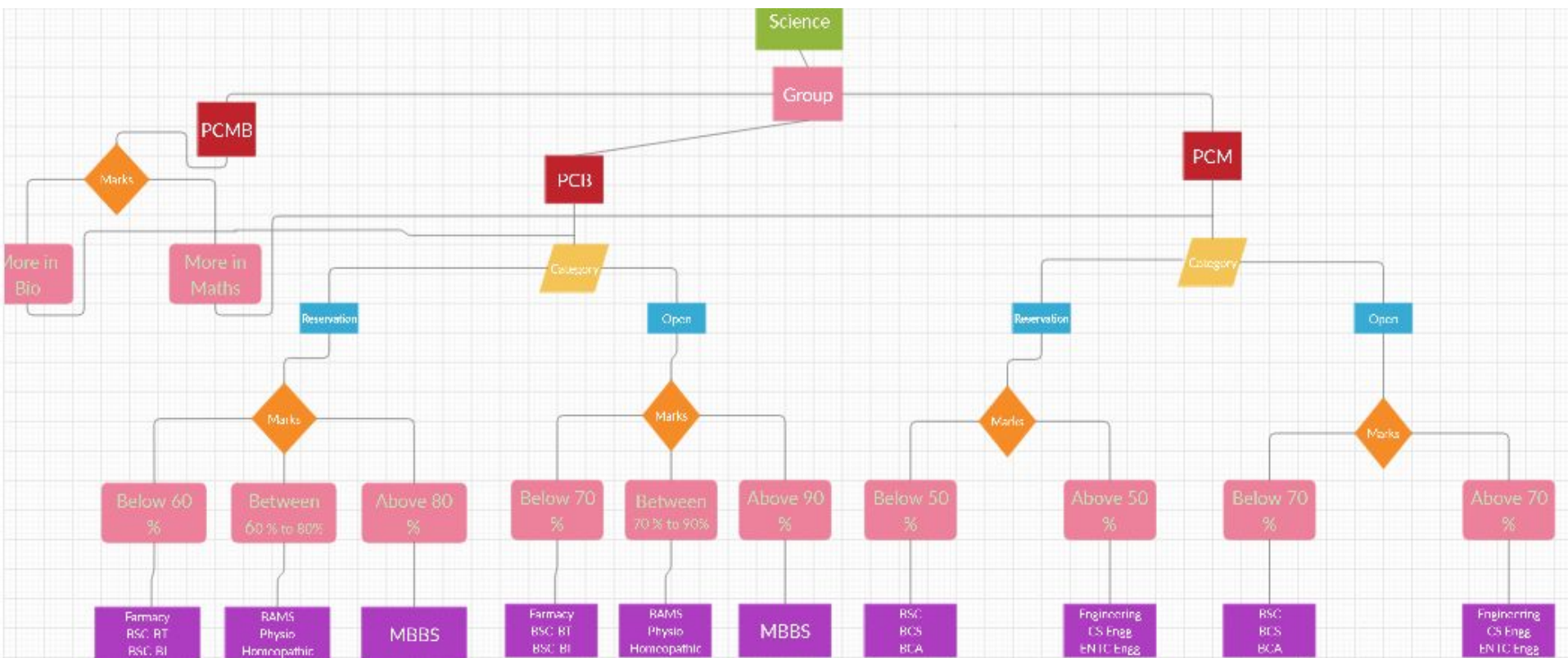
CPU: Core 2 Duo/Athlon X2 or better

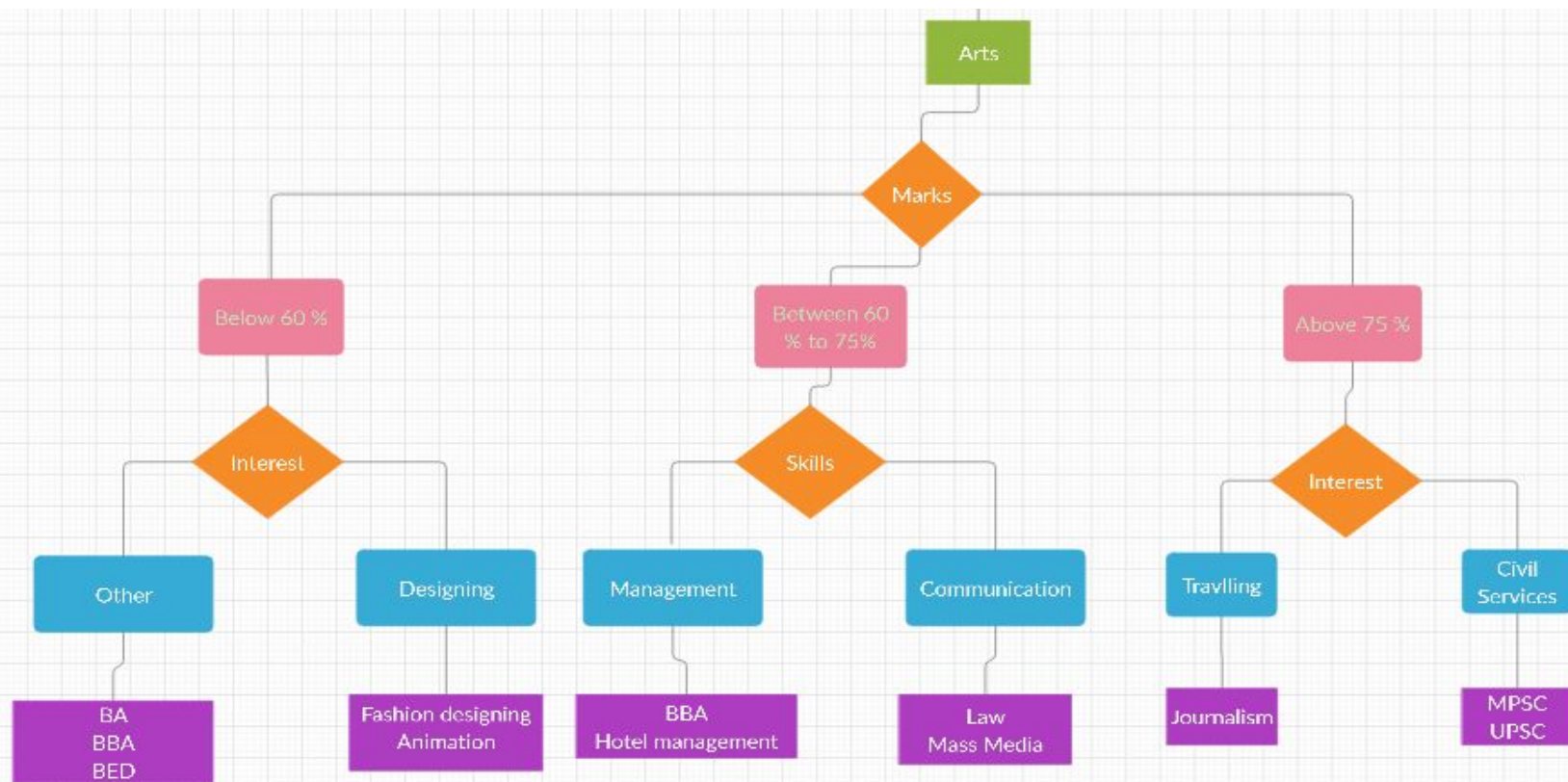
RAM: 1.5GB

32/64 bit platform

SWI-PROLOG

Flow of Project







Outcome

To support students in overcoming difficulties in choosing the right career.

With an expert system approach integrated with system information, students are expected to be able to conduct independent career guidance without consulting a career expert.



Output

 SWI-Prolog (AMD64, Multi-threaded, version 8.0.3)

File Edit Settings Run Debug Help

Welcome to SWI-Prolog (threaded, 64 bits, version 8.0.3)
SWI-Prolog comes with ABSOLUTELY NO WARRANTY. This is free software.
Please run ?- license. for legal details.

For online help and background, visit <http://www.swi-prolog.org>
For built-in help, use ?- help(Topic). or ?- apropos(Word).

```
?-
Warning: c:/users/lenovo/desktop/course_prediction.pl:25:
Singleton variables: [Interest_in_technology]
Warning: c:/users/lenovo/desktop/course_prediction.pl:33:
Singleton variables: [Ready_to_sacrifice_life]
% c:/Users/LENOVO/Desktop/Course_prediction.pl compiled 0.00 sec, 29 clauses
?- go.
Does the student have following qualities like_maths? no.

Does the student have following qualities likes_biology? |: no.

Does the student have following qualities interested_in_teaching? |: no.

Does the student have following qualities likes_travelling? |: no.

Does the student have following qualities likes_social_work? |: no.

Does the student have following qualities commerce? |: no.

Does the student have following qualities creative_in_problem_solving? |: no.

Does the student have following qualities likes_discipline? |: no.

Does the student have following qualities likes_business? |: no.

Does the student have following qualities likes_acting? |: no.

Does the student have following qualities interested_in_research? |: no.

I believe that the you should choose bachelor_in_any_of_sci_arts_commerce
Congratulations
true.
?- ■
```



Advantages:

1. This system predicts on the basis of students abilities and prior academic achievements due to that it will be helpful for students to select best path towards their career.
2. Due to the use of this expert system we can introduce new courses to students.

Conclusion

The System for matters associated to the problem of course selection for 12th students in all streams and provides effective advice and counselling for them.

The recommendation system will be a helpful for students to establish College Student Relationship Management strategy as well.

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Thank you