

PROGRAMMING WITH C

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What IS C?

- C is a general-purpose programming language created by Dennis Ritchie at the Bell Laboratories in 1972.
- It's considered as the base for other programming languages thus being known as the mother language.
- Most of the compilers: JVMs, Kernels, etc. are written in C language and most of the programming languages follow C syntax, for example, C++, Java, C#, etc.
- C is strongly associated with UNIX, as it was developed to write the UNIX operating system.
- It is a very popular language, despite being old.

Time Table Management With C



Time Table management is basically a program through which we can view the Time Table and the faculty of the college can organize and create a Time Table into a predefined format of Multi-Dimensional Array.

Technology has advanced and as a result, learning institutions are doing away with the manual timetable system and implementing the automated timetabling system which is more effective and efficient when compared to the manual timetable system.

Advantages of Time Table Management

- **Minimizes on errors.**
Timetables made manually are prone to errors such as redundancy in scheduling of classes and exams at a certain time, but the automated timetabling system is error free.
- **Automated timetabling system saves on time.**
Staff of a learning institution do not have to meet and gather required data to make an examination timetable but instead, by use of artificial intelligence the system will generate the timetable automatically as long as the required data is presented.
- **The system is user friendly.**
The institution using the system does not have to be educated on how the system works, it is generated in a way that users will easily understand and interpret the timetabling system.

Advantages of Time Table Management



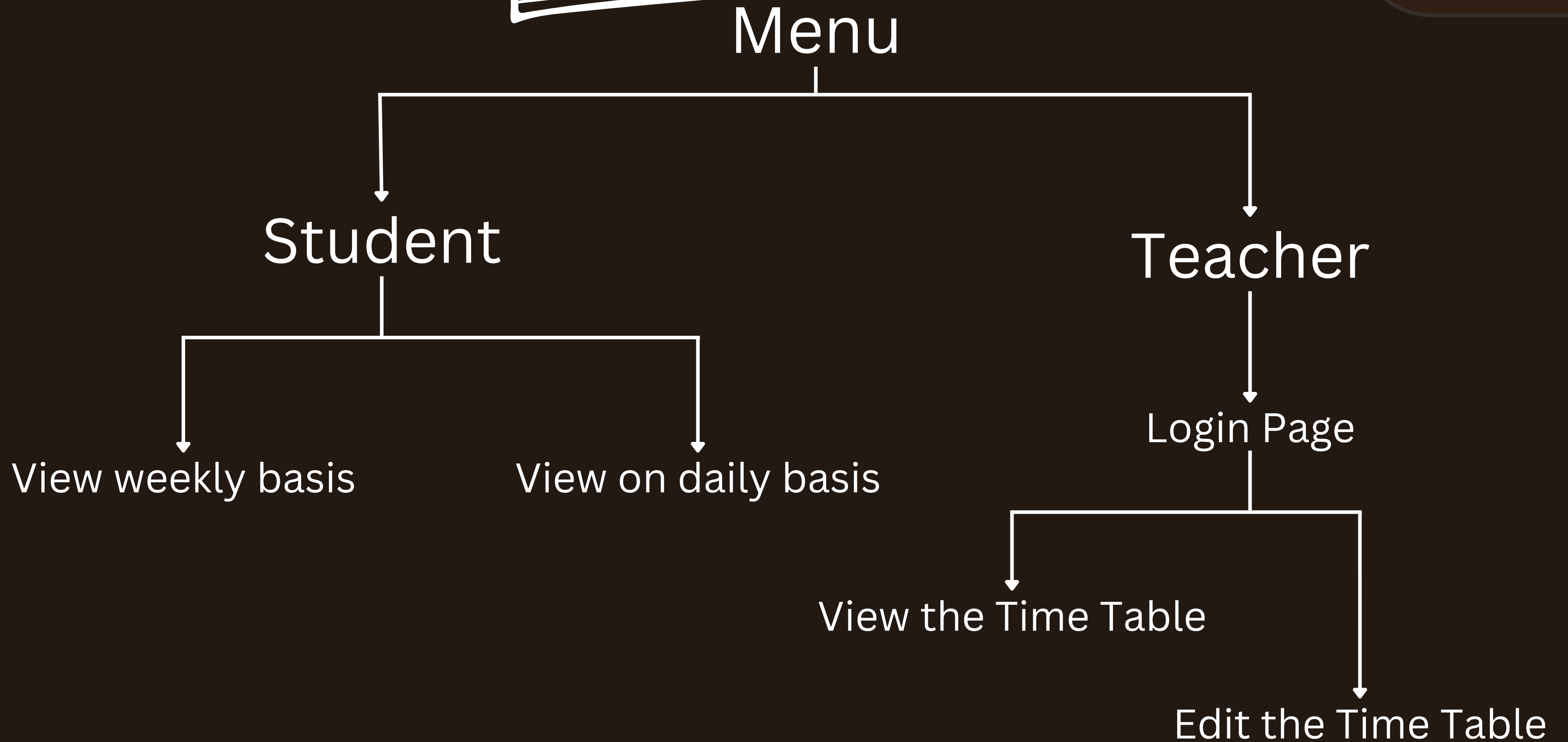
- **It is secure**
The generated timetable ensures that there is transparency of activities that take place and does not allow individuals to tamper with the timetable if they are not authorized
- **The automated timetable is easily customized**
When the system is being developed, the system users can request the web developer to customize the system in a way that will make it unique and different from other systems of the same kind.
- **Paper work is eliminated**
The manual timetables are prone to more errors which cause wastage of time since the timetable must be produced again once an error is identified while the automated timetabling system does not involve paper work.

Project

- This project is a menu driven program where the user(student/teacher) can view the time table when required.
- The teacher faculty can modify the details of lectures and their timings.
- At the end of the day, the faculty can display timetable which will generate for different batches of C.S during run time of program.
- This program is mainly made using the knowledge we have gathered during the first semester of our course.
- In this program we have made use of 3D Arrays, Functions, and all the basis loop and switch conditions.

Program Flow

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- The user is welcomed to the main page of the time table management window.
- From there he/she can select from two options of whether he/she is a teacher or student.
 - 1] For Teacher :
 1. If the user selects teacher the program will further ask for the User ID and Password of the faculty.
 2. If the user gets the right User ID and Password , it will ask the user if they want to view or edit the Time Table. If the user gets it wrong it will prompt for the User ID and Password again.
 - 2] For Student :
 1. If the user selects student the program will ask the student whether they want to view the Time Table of the whole week or on daily Basis.
 2. If the user selects daily basis it will ask the user to select the day.

IMPROVEMENTS:

1. Clash identifier

Logic:

- Ø Start

- Ø Entering the day and time the user want to edit.

- Ø Taking the updated time table from the user.

- Ø Using for loop comparing the strings in that position.

- Ø If the strings are equal : Give the clash update else
update the time-table