

## **DSA Timetable Manager**

This project is a **Timetable Manager** implemented in C++. It reads a `.csv` file and generates daily schedule files for a classroom timetable. Users can then search for course schedules, free classrooms, or section-wise timetables.

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### ✨ **Features**

- Reads timetable data from a CSV file.
- Splits data into separate files for each day (Monday to Saturday).
- Allows:
  - Viewing schedule of a specific course.
  - Checking available classrooms on a specific day and time.

- Viewing the full timetable of a specific section.

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## Requirements

- C++ Compiler (like g++, clang++)
- Any IDE or terminal with C++ support
- Input file: `timetable.csv` located at `D:/timetable.csv`

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## Setup Instructions

Clone this repository:

<https://github.com/hirakainat/dsa-timetable-manager>

Place your `timetable.csv` file in the specified path or update the code to use your desired path.

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## How to Run

### Using Command Line:

```
g++ dsa.cpp -o timetable  
./timetable
```

### Using Visual Studio / Code::Blocks / IDE:



- Open the `dsa.cpp` file.
  - Set the correct path for `timetable.csv`.
  - Build and Run.
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## Output

The program generates:

- Text files for each weekday: `Monday.txt`, `Tuesday.txt`, ..., `Saturday.txt`
- Console menu with options to:
  - Print course info
  - Find free classrooms
  - View section timetable

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Made with , , and a lot of debugging by **Hira Khalid** – turning CSV chaos into classroom clarity!