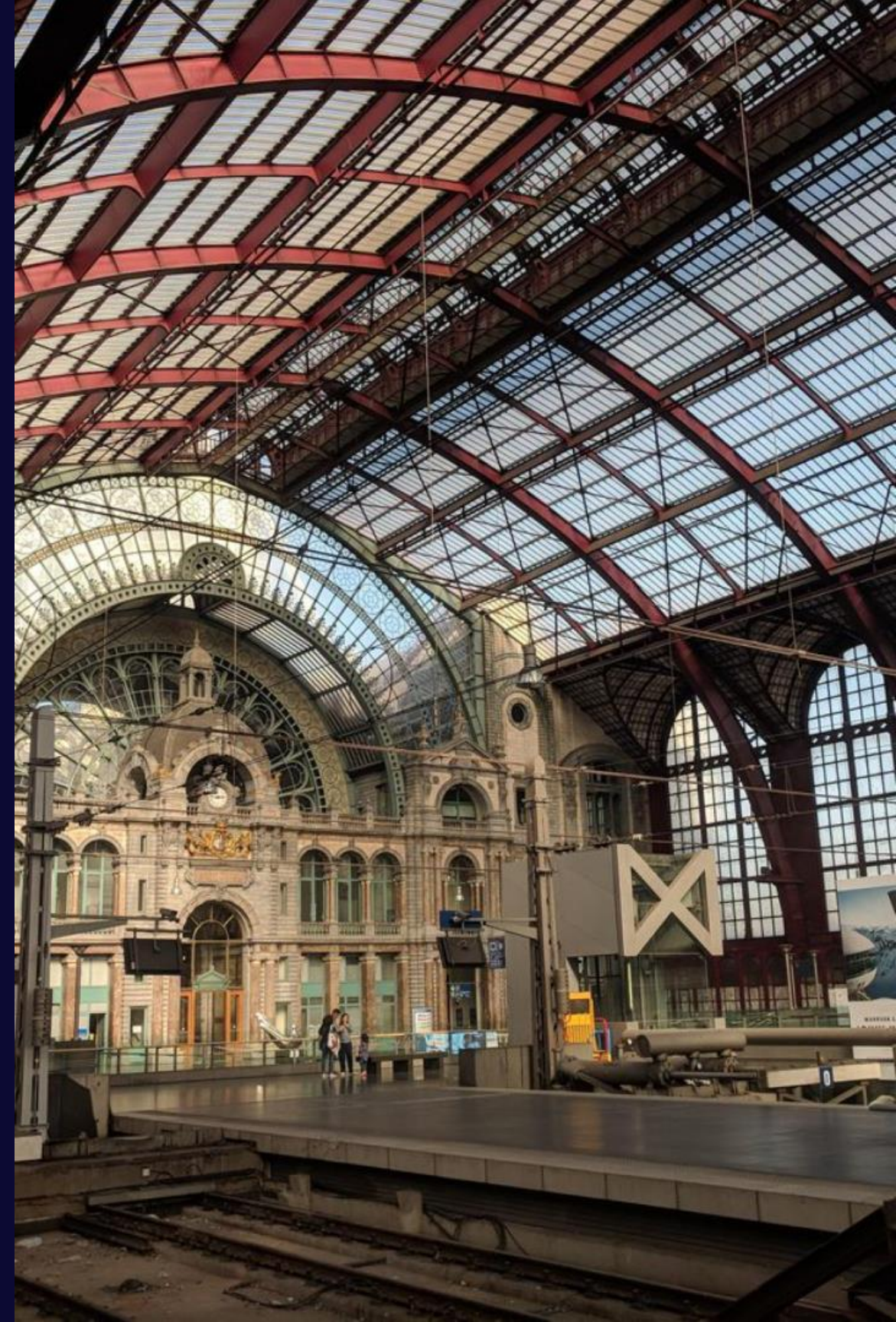


Railway Management System

○ By Akash





Introduction: Railway Management System

A comprehensive software solution for managing railway operations efficiently and effectively. Streamlines ticket booking, train scheduling, and passenger management.

Explanation of the Project

An overview of the purpose and scope of the Railway Management System, System, including its key objectives and benefits for both railway authorities and authorities and passengers.





Design and Architecture

Dive into the architectural design of the Railway Management System, including including the layered structure, modular components, and data flow. Highlight Highlight the system's scalability and flexibility.



Features and Functionalities

1

Ticket Booking

Effortless online ticket booking with real-time availability and seat selection.

2

Train Scheduling

Optimized train schedules considering factors like distance, station capacity, and demand.

3

Passenger Management

Efficient management of management of passenger information, including booking history and preferences.

Technologies and Tools Used

1

C++

The project is built using using the powerful C++ C++ programming language for its performance and object-object-oriented nature. nature.

2

Database

An SQL database is utilized to securely store store and manage railway-related data.

3

UI/UX Design

Design tools like Adobe Adobe XD are employed employed to create a user-friendly and visually appealing interface.

Libraries

<iostream>

<fstream>

<string>

<windows.h>

<conio.h>



Libraries

1 `iostream`

`<iostream>` is a Input and output streams, used for basic input/output operations in C++.

2 `fstream`

`<fstream>` is Input and output stream class to operate on files.

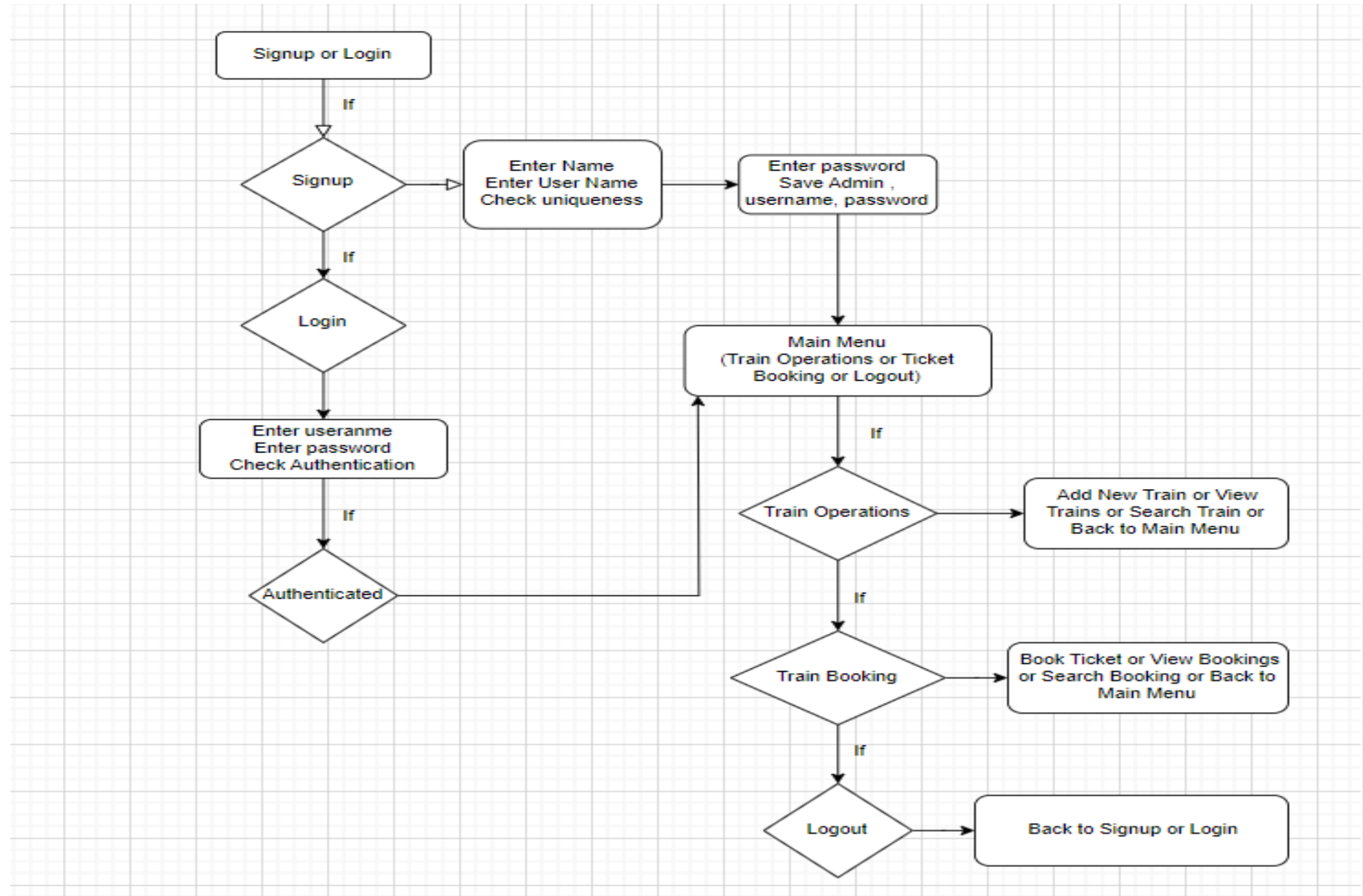
3 `Window.h`

A header file in the Windows API for Windows-based applications. It includes declarations for many functions used in handling windows, processes, threads.

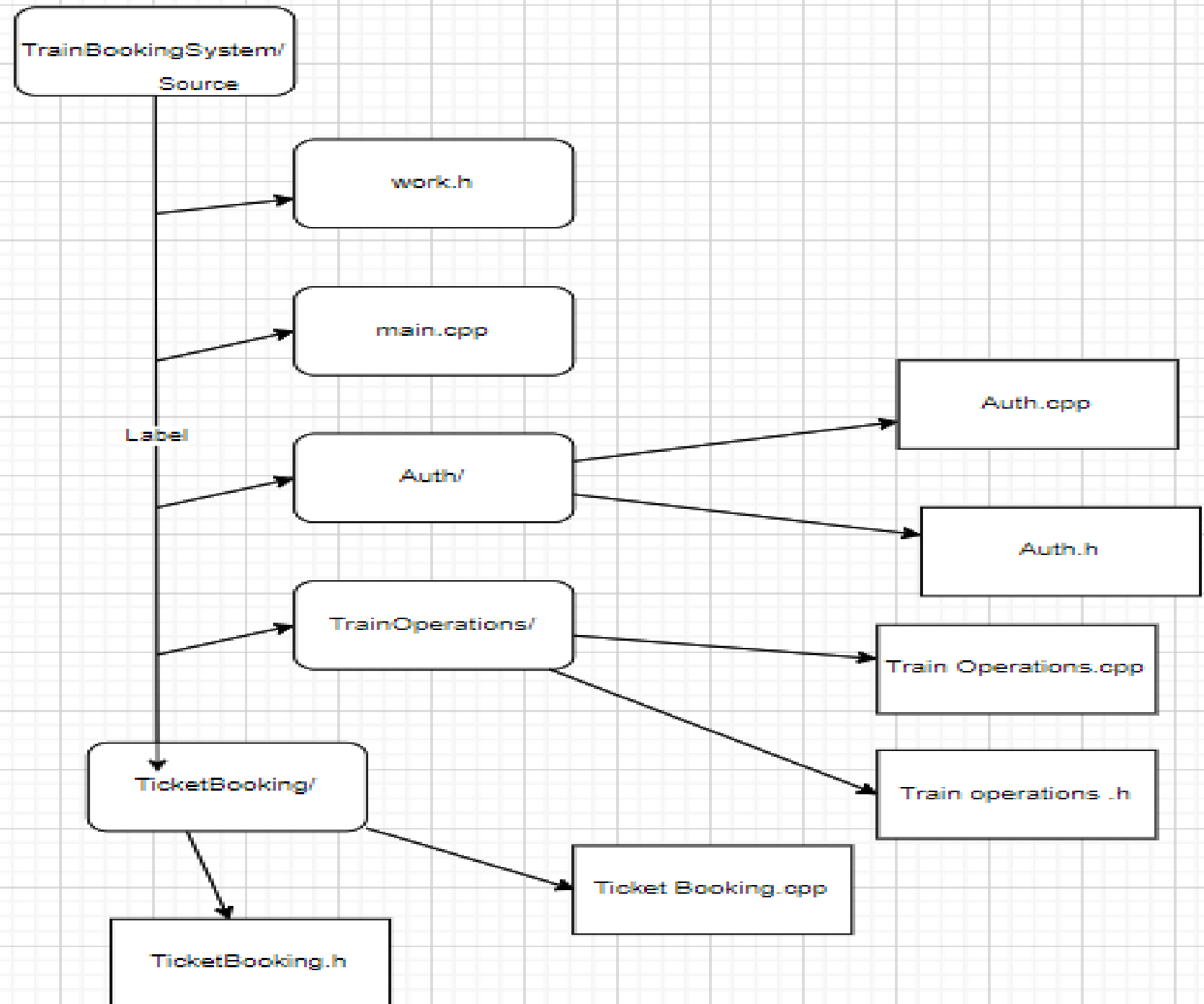
4 `conio.h`

A header file primarily used in old-style MS-DOS compilers to provide console input and output functions like `getch()` for character input.

Flow Chart



Folder Heiarchy





GitHub Repo:

<https://github.com/akash-sindhi/Railway-Management>

References:

<https://app.diagrams.net/>

<https://go.microsoft.com/fwlink/?linkid=830387>

