**RedBus Data Scraping**

This project scrapes private and government bus details (like bus name, type, timings, price, ratings, and seat availability) from [RedBus.in](https://www.redbus.in/) using **Selenium** and **Python**.

**Features**

* Scrapes bus information: ➔ Bus Name, Bus Type, Departure Time, Duration, Arrival Time, Star Rating, Price, and Seat Availability.
* Dynamically detects **Route Name** from any RedBus link.
* Saves the scraped data into a **SQL database** (MySQL).
* Allows you to **retrieve and display** bus information directly from the database.

**Requirements**

* Python 3.8 or higher
* Chrome Browser
* Chrome Driver (compatible with your Chrome version)
* My SQL Workbench

**Python Libraries:**

* Pandas
* selenium-stealth
* pymysql

**How to Run**

1. download the code.
2. Install the required Python packages.
3. Update the URL variable inside the script with your RedBus search link.
4. After running, a file named Run the Python script
5. Red bus scraped data will be generated in CSV file format.
6. Store the CSV file in MYSQL Workbench by using pymysql library.
7. Load main.py connect server and data base and run.

**CSV File Output will be in this format:**

| **Route Name** | **Bus Name** | **Bus Type** | **Departure** | **Duration** | **Arrival** | **Star Rating** | **Price** | **Seat Availability** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Kumbakonam to Chennai | PNX Travels | AC Seater 2+2 | 08:00 AM | 5h 30m | 01:30 PM | 4.2 | INR 445 | 37 Seats available |

**output**

A screenshot of a computer

AI-generated content may be incorrect.