

# Car Rental System Documentation

## Introduction

The Car Rental System is a command-line-based application developed using C++ and SQLite. It provides functionalities to manage car rentals, including registering new cars, renting cars, returning cars, and viewing rental history. This documentation guides new users on how to compile and run the system, along with an overview of the available menus.

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## Requirements

1. **GCC Compiler:** Ensure gcc is installed on your system (From mingw).
2. **SQLite3:** Required for database operations.

*You can verify their installation using the following commands:*

```
gcc --version  
sqlite3 --version
```

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## Compilation and Execution

To compile and run the Car Rental System, follow these steps:

- 1 . Navigate to the project directory containing the source files (`main.cpp` and `sqlite3.c`).
- 2 . Use the following command to compile the project:

```
gcc -o main main.cpp sqlite3.c -lstdc++
```

- 3 . Run the compiled executable using:

```
./main
```

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## Notes

- Ensure the `sqlite3.c` file is in the same directory as `main.cpp` during compilation.
- You can download the `sqlite3.c` and other dependencies from [Official `sqlite` web](#). For this specific project download the **`sqlite-amalgamation`** source code.
- SQLite database is created or accessed in the same directory as the executable.
- Data is persisted using SQLite, ensuring information is retained between sessions.

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With this guide, you can easily compile, run, and explore the Car Rental System. Enjoy managing your rentals!