

./Road Runner\.

Team 4 - User Manual

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Introduction

Welcome to the **Road Runner**!

Congratulations on choosing the **Road Runner**, a cutting-edge program designed to revolutionize the way you navigate through the vast network of roads across the USA. This innovative software is a product of extensive research and engineering, developed by a dedicated team of students from **ALGOSUP**.

With **Road Runner**, you can effortlessly find the quickest route between any two locations, ensuring you spend less time on the road and more time enjoying your journey. The system harnesses advanced algorithms and real-time data to provide you with fast, reliable, and accurate route suggestions.

This *user manual* will serve as your companion, guiding you through the seamless setup, operation, and optimization of your **Road Runner** experience. Whether you're a daily commuter, an adventurous traveler, or someone who simply enjoys exploring new places, our straightforward instructions will help you make the most of this powerful tool.

As you delve into the features of the **Road Runner**, you will discover its user-friendly interface and robust functionality that empowers you to navigate with confidence. We encourage you to explore its capabilities and adapt it to your travel needs, unlocking new possibilities for your journeys.

Happy navigating!

Product Overview

Key features



Fast Route Calculation



High Accuracy



Multi Output Format Handling

Hardware Requirements

Windows

Category	Minimal Configuration	Recommended Configuration
Operating System	Windows 7	Windows 11
Processor	Intel Pentium	Intel Core I3
Memory	8 Gb	16 Gb
Storage	2 Gb	8 Gb

MacOs

Category	Minimal Configuration	Recommended Configuration
Operating System	Monterey 12.3	OS X 10.9 Mavericks
Processor	Intel Core I3	Intel Core I5
Memory	8 Gb	16 Gb
Storage	2 Gb	8 Gb

Prerequisites

Windows

Microsoft Build Tools:

- Download and install the Microsoft Build Tools for Visual Studio 2022.
- During installation, select the Desktop Development with C++ workload.

Environment Variables:

- Ensure that the installation path of Clang is added to your system's PATH environment variable.

macOS

Xcode Command Line Tools:

- Install the Xcode Command Line Tools by running:
`xcode-select --install`

Additional NotesDocumentation:

Internet Connection:

- Ensure you have a stable internet connection for downloading necessary files and updates.

Set Up

To obtain the latest release of our project, you will need to visit our GitHub repository, where the source files are located. Here's how to do it:

1. Navigate to GitHub:

Open your web browser and go to our [GitHub repository](#).

2. Access the Releases Section:

- Once you're on the repository page, look for the "Releases" section. This section is located on the right side of the page or under the repository description.
- Click on the "Releases" link to view all available versions of the project.

3. Download the Latest Release:

- Click on the version you want to download, and you will be directed to a page with assets related to that release.
- Download the necessary files (marked as .zip or .tar.gz).

4. Extract and Use:

After downloading, extract the contents of the file to your desired directory. You can now proceed to use the files as per the project instructions!

How to Use

1. Locate the Extracted Folder:


After downloading the release, navigate to the directory where you extracted the files.

Note: This folder will contain all the necessary components of the program.

2. Launch the Program:

- Windows: Double-click on ***road_runner.cmd*** to launch the program.
- macOS/Linux: Open a terminal, navigate to the extracted folder, and type “***./road_runner.sh***”.

3. Follow the Instructions:

Note: The program should open two instances of the terminal.  **Do not interact with the SERVER one.**

- Look at the instructions that should appear to guide you through the program on the second instance.
- Enter the start and end nodes you want.
- Wait for the program to find the quickest path.
- Open the “*output*” folder and click on the file that contains all the results (JSON or XML).

Troubleshooting

Performance Issues

- **Insufficient system resources:** Check if your computer meets the requirements mentioned in the Hardware Requirements section.
- **Running background applications:** Close unnecessary applications.

Network-Related Issues

- **Firewall restrictions:** Ensure your firewall settings allow the program to connect to the internet if required.
- **Unstable connection:** Check your network connection.

Installation Problems

- **Missing prerequisites:** Look for any installation prerequisites listed above.
- **Installation errors:** Retry the installation process following the provided instructions.

Contacts

We sincerely appreciate your interest in our project! Your engagement and feedback are invaluable to us as we strive to improve and enhance the program.

To access the latest releases, documentation, and contribute to the project, please visit our GitHub repository:

GitHub URL:

[2024-2025-project-3-quickest-path-team-4](#)

If you have any questions, suggestions, or need assistance, please feel free to reach out to us. We are here to help you!

For reporting bugs or feature requests, please use [our GitHub Issues page](#).

Thank you once again for being a part of our journey! We look forward to hearing from you!