Windows Command Prompt
Woopsie Creations
C:_

USER MANUAL

Acknowledgments

Thank you for downloading Path Quick!
Your support is key!

And thanks a lot to the team behind the development of this project!
Without them, the project wouldn't be like it is right now!

Best regards from Woopsie Creations



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Introduction

Path Quick is an intuitive and efficient software designed to help you find the shortest path between two landmarks within a .csv file.

Whether you're analyzing data for urban planning, logistics, or academic research, Path Quick streamlines the process, saving you time and effort.

In this user manual, you'll find everything you need to get started, from installing the software to step-by-step instructions on how to input your data and interpret the results. Our goal is to make your experience seamless and productive.

Hardware Requirements

Category	Minimal Configuration	
Operating System		
System version	Windows 7	Monterey 12.3
Processor	Intel Pentium	M1
RAM	8GB	
Storage	40GB	



Your computer needs Internet access in order to continue.

How To Install

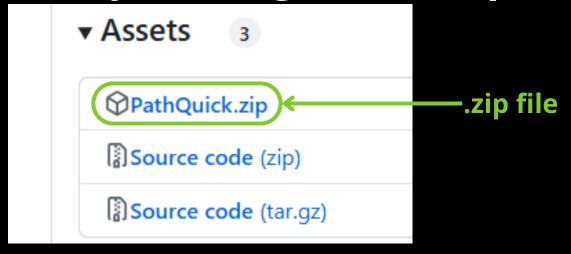
Access our repository:

https://github.com/algosup/2024-2025-project-3-quickest-path-team-6

Select the latest release



Download it by clicking on the .zip file



Finally, unpack the .zip file

i Ensure <u>at least one</u> .csv file is located in the project folder!

Correct Data Structure

Before using Path Quick, you'll need a .csv using the following format:

```
1,2,18
1,3,6
1,5,15
1,7,13
1,9,19
2,3,9
2,4,7
2,8,5
3,4,17
3,6,2
3,8,11
4,5,10
```

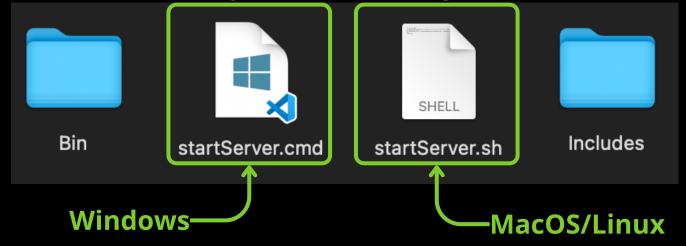
Landmark A , Landmark B , Time



Each line represents a road, with the time indicated in the unit of your choice.

How To Launch Path Quick Server

Start the server by launching one of these files



Server interface

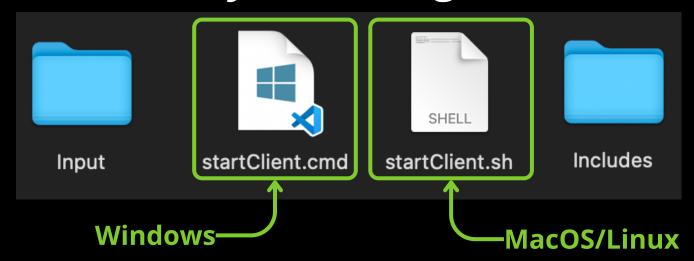
```
/\_/\
Dataset loaded! / ^.^ \
Loaded in 121 seconds!
Available landmarks from 1 to 23947347

Graph loaded successfully.
Server running on port 8080...
Press 'C' to verify the target .csv file.
Press 'SPACE' to shut down the server.

\(\(\(^\come^\c)\)
```

How To Launch Path Quick Client

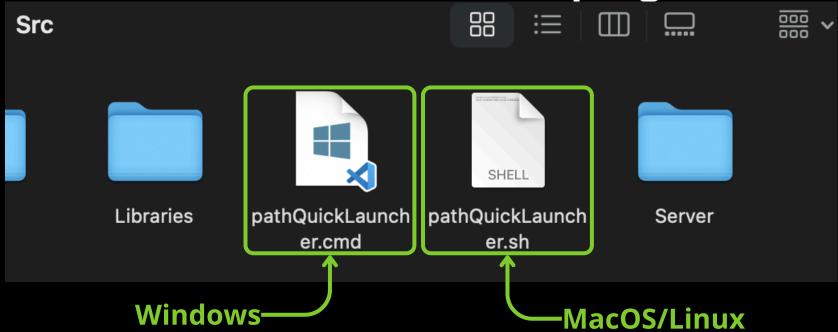
Start the client by launching one of these files



Client interface

How To Launch Path Quick Launcher

You can also launch both programs:



It will open two dedicated terminal windows for both the server and the client

How To Use Path Quick Server

Once the server is launched, you can choose which .csv file you want to load

```
Files found:
1. ../../Src/USA-roads.csv
2. ../../Src/UnitTesting/csv/incorrect.csv
3. ../../Src/UnitTesting/csv/correct.csv
Choose the .csv file:
```

Then, you will have to wait a few moments for the server to load the dataset correctly

```
/\_/\
ataset loaded! / ^.^ \
oaded in 121 seconds!
vailable landmarks from 1 to 23947347

raph loaded successfully.
erver running on port 8080...
ress 'C' to verify the target .csv file.
ress 'SPACE' to shut down the server.

equest completed. Path converted into JSON response.

(^-w-^)z
```

You can shut down the server by just pressing 'SPACE'

Server shutting down. See you later!

How To Use Path Quick Server

The server is now online, and it is listening for queries
You can send queries either by typing a certain URL...

By typing a curl command on your terminal...

```
curl "http://localhost:8080/route?source=1&destination=2&format=json"
{
    "path": [
        1,
        2
    ],
    "time": 5062
}
```



If the desired format is not handled, it will still output correctly but in plain text.

How To Use Path Quick Server

You can verify the integrity of the current .csv file on the server side by pressing 'C'

Verifying ../../Src/USA-roads.csv

The file is free of loops.

The graph is fully connected. Every node can reach every other node. No duplicate connections found.

If any problem is detected by this feature, means the dataset is not correctly formatted and thus might causes issues while calculating a path

How To Use Path Quick Client

You can also use Path Quick's client for more simplicity

Access the "Find my Way" tab by entering '1'



If the server is not online, you won't have access to the "Find my way" tab.

Server not connected. Wait until it is connected.

How To Use Path Quick Client

Select your departure

Select your destination



You can see how many IDs are available right on top.

How To Use Path Quick Client

Select the file format and confirm

If needed, you can redefine the path

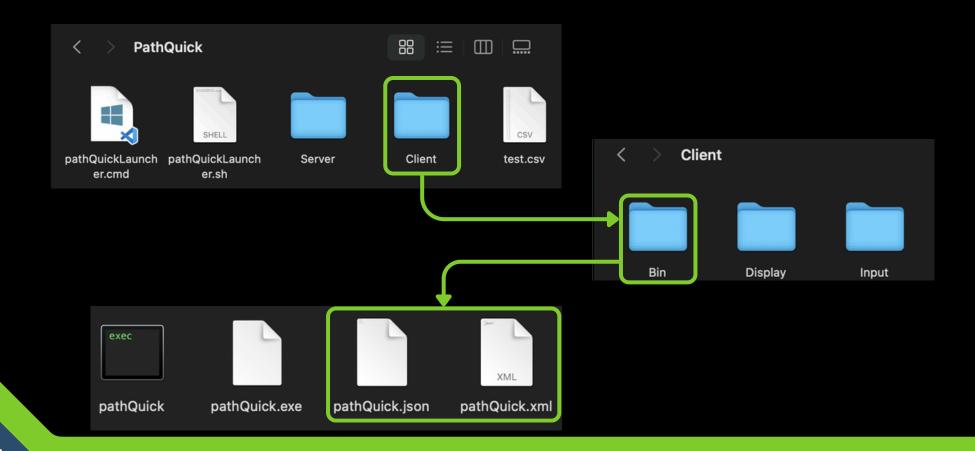
The client handles only JSON and XML formats.



How To Use Path Quick Client

In order to see the result of the path, you need to go into "Client/Bin/pathQuick(.json or .xml).





Troubleshooting

Curl: (7) Failed to connect to localhost port 8080

Condition	What to do
The server is up	Restart the server
The server is still loading	Wait for the server initialization to complete
There is no terminal open with the server	Restart "startServer"

curl: (52) Empty reply from server

Solution: verify the correctness of your parameters

Curl: (56) Recv failure: connection was reset

This error suggests that the server connection was interrupted while processing the request.

To resolve this issue, restart the server.

Troubleshooting

In the possibility you have encountered another type of error, follow these instructions:

- Go to this website: -

https://github.com/algosup/2024-2025-project-3-quickest-path-team-6/issues.

- Select "New issue" on the top right -
 - Select "Bug report" -
 - Describe your situation -

