

# SMASHTHEPATH

User Manual

Team 1

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## Introduction



SmashThePath aims to determine the time between two nodes and find the fastest way. Users can use it to save time and travel more effectively across the United States.

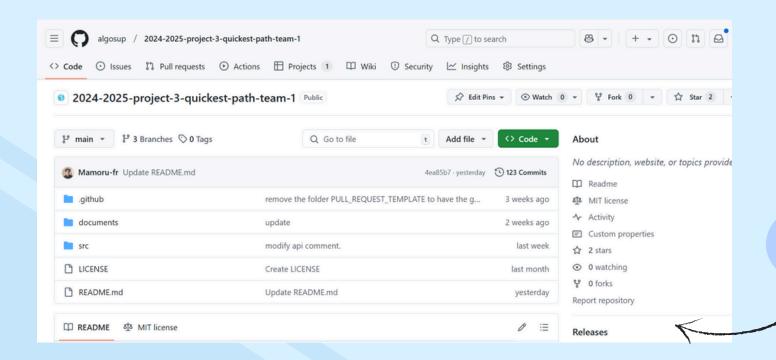
Our main goal is to create an easier way to determine the fastest time between two nodes.





Go to our GitHub. https://github.com/algosup/2024-2025-

project-3-quickest-path-team-1

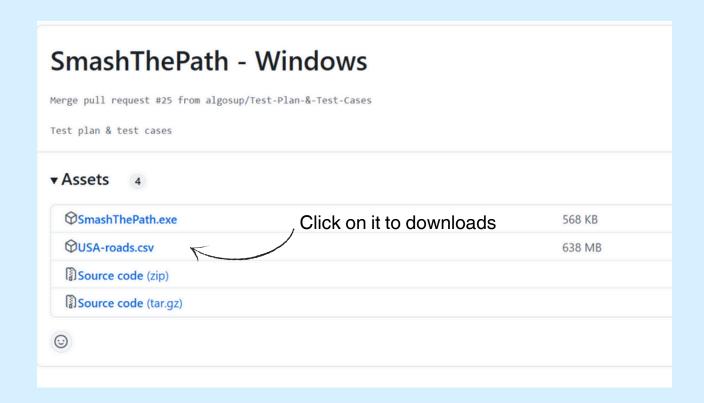


Click on Releases

#### For Windows



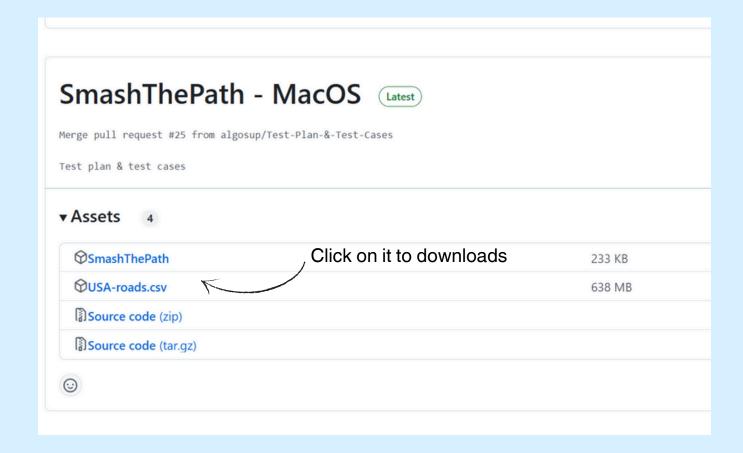
You just need to downloads "SmashThePath.exe" and "USA-roads.csv".



#### For MacOS



You need to download "SmashThePath" and "USA-roads.csv".



### How to launch it



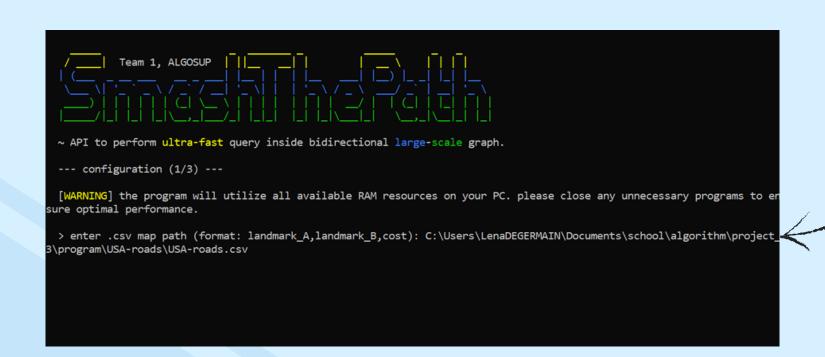


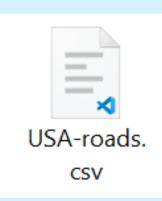
Open the executable "SmashThePath.exe" or "SmashThePath".

When you open it, this interface will be shown on your desktop.



Drag & drop the file "USA-roads.csv" into the interface. Then press Enter.





#### You must set some parameters.





First, write yes(y) the preprocessing is necessary.

Choose your number of landmarks, Depend of your graph and your computer's power.

Choose how much longer, as a percentage, are you willing to allow a path to be compared to the shortest possible duration.

Write "y" to save all settings and avoid having to configure them again.
Or, write "n" to change in the future your config.



Write "y" to personalize the heuristic percentage.

```
~ api
> do you authorize the user to, optionally, set a personalized heuristic percentage when making query (y/n): y
~ other
> do you want to get debugging log (written inside a .txt) (y/n) ? : y
```

Write "y" to get the debugging log.

Now, you need to wait for the pre-processing finish.

## How to use it



Open your navigator and enter this in the search bar.

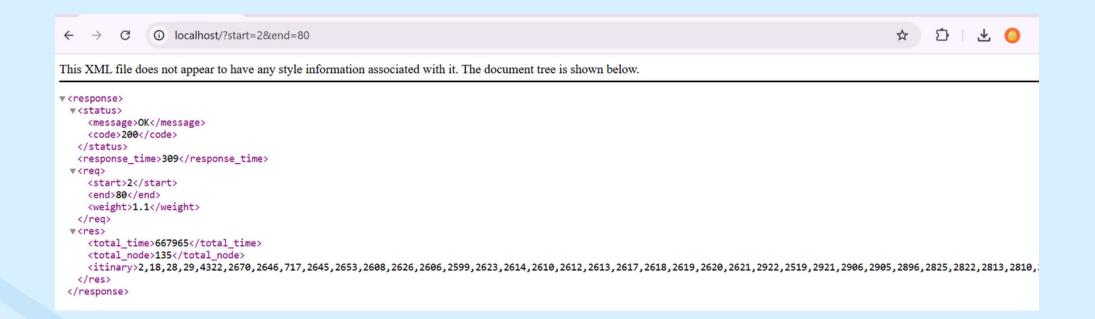
Instead of 7 you input the number of the node you want to go.

(i) localhost/?start=1&end=7

Instead of 1 you input the number of the node you start.



# example of what you get after input "http://localhost/?start=2&end=80"



On this page, we can see the itinerary, including the total number of nodes in it. Also, the request's time, the weight and the total time to achieve the itinerary.



## Thank you for reading

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