

BPMP Web Onboard

Prerequisite

- VSCode: IDE
- MongoDB : Database
- Postman : Upload new dataset
- [Vercel.com](https://vercel.com) account : Deploy

Run Application Locally

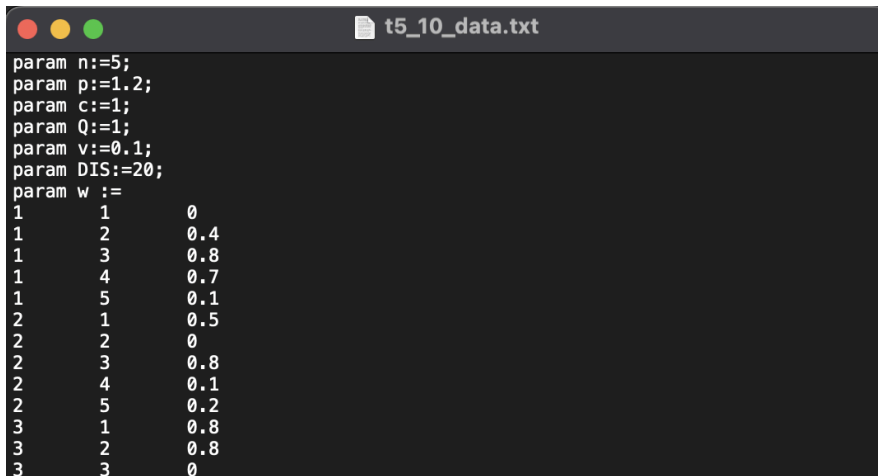
1. Clone repository
2. Add .env file (contact tnlam@smu.edu)
3. Run 'yarn install' to install dependencies
4. Run 'yarn dev' to run the application. Should be running on localhost:3000

Upload dataset to Database

**Make sure the application is running to use API uploading dataset*

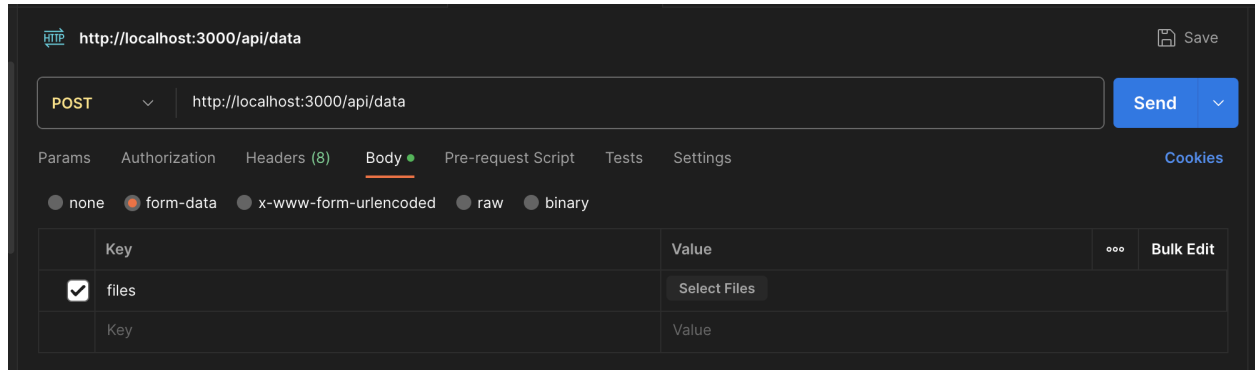
/api/data (upload general information)

1. Dataset should look like this:



```
param n:=5;
param p:=1.2;
param c:=1;
param Q:=1;
param v:=0.1;
param DIS:=20;
param w :=
1      1      0
1      2      0.4
1      3      0.8
1      4      0.7
1      5      0.1
2      1      0.5
2      2      0
2      3      0.8
2      4      0.1
2      5      0.2
3      1      0.8
3      2      0.8
3      3      0
```

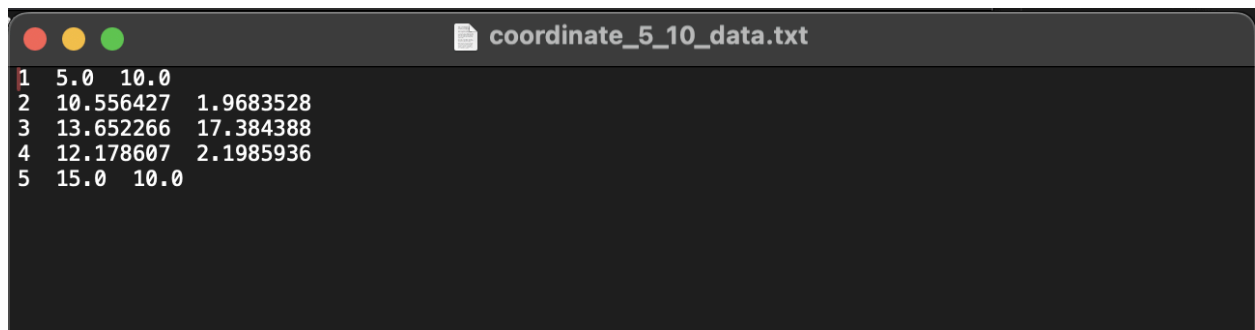
2. Make selection like in the image below



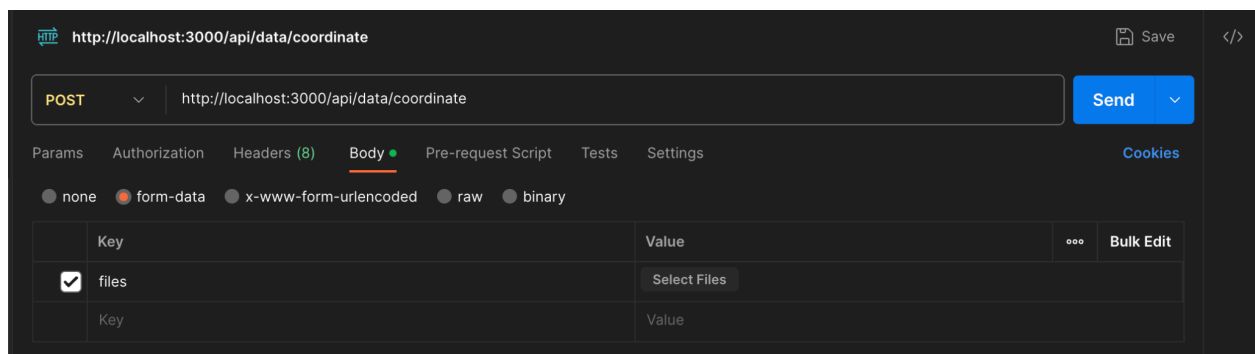
3. Insert file(s) to the value
4. Send and Should give you json response of the dataset

/api/data/coordinate (upload coordinates)

1. Dataset (make sure the filename should be the same at all times). Below should rename to t5_10_data.txt



2. Make selection like image below



/api/data/optimalSolution (upload optimal)

1. Dataset: Format should look like image below

v1

t5_05_data.txt
Optimal · Updated Dec 2, 2024 by Eli Olinick

```
[1,3,2,5]
[[1,3],[2,5],[3,2]]
1.0272
```

2. Postman API should be similar to above requests.

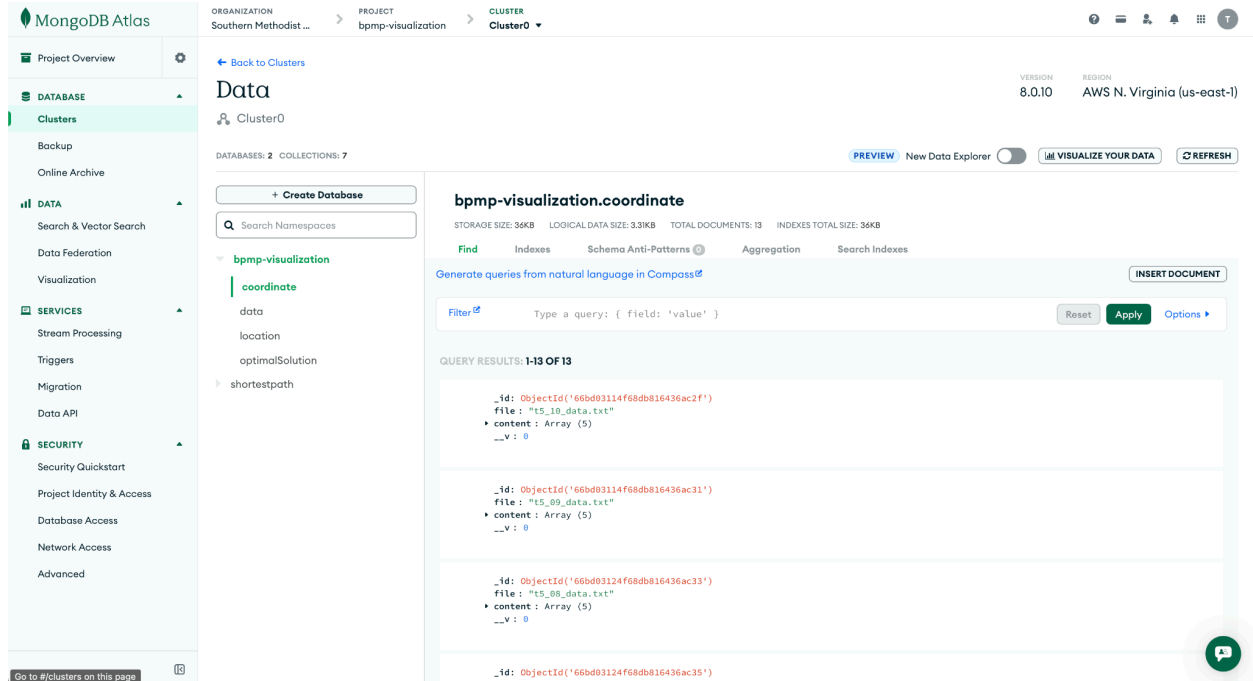
Test if file existing using API

Postman interface showing a GET request to `http://localhost:3000/api/data?fileName=t5_10_data.txt`. The response is a JSON object with the following structure:

```
{
  "_id": "66bbfd66d41df4b9374875cc",
  "file": "t5_10_data.txt",
  "data": {
    "n": 5,
    "p": 1.2,
    "c": 1,
    "Q": 1,
    "v": 0.1,
    "DIS": 20,
    "weightDistantData": [
      {
        "w": 0,
        "d": 0,
        "x": 1,
        "y": 1
      },
      {
        "w": 0.4,
        "d": 9.76633,
        "x": 1,
        "y": 2
      },
      {
        "w": 0.8,
        "d": 11.37501,
        "x": 1,
        "y": 3
      }
    ]
  }
}
```

Database (MongoDB)

Navigate to *Organization: Southern Methodist University > Project: bpmv-visualization > Cluster: Cluster0*



We have two database **bpmv-visualization** and **shortestpath**.

Bpmv-visualization (consists of 4 collections which need to has the same filename in **file** field)

- Coordinate (required): x and y coordinates of the nodes
- Data (required): general information about the datasets (num of nodes, vehicle cost, etc.)
- Location (optional): corresponding location
- optimalSolution (optional): optimal Profit and Path

Vercel

Vercel is a cloud platform that deploys websites and web applications. After you make your commit changes to the main repository, Vercel will pull the latest changes, build and update the website automatically. If there is any error, it will show in the deployments tab. Go back and fix your code and commit changes again until achieve 'green' mode.

BPMP-Visualization

Hobby

bpmp-graph-visualization

Find...

F

Feedback

Overview

Deployments

Analytics

Speed Insights

Logs

Observability

Firewall

Storage

Flags

Settings

Deployments

Upgrade to Pro for 2x more CPUs and faster builds

Automatically created for pushes to Intran/BPMP-GraphVisualization

Search All Branches...

Select Date Range

All Environments

Status 5/6

<div>52m4evDGD</div> <div>Production </div>	<div>Ready</div> <div>1m 23s (8m ago)</div>	<div> main</div> <div> b00eb44 Add files via upload</div>	<div>10m ago by Intran</div> <div></div> <div>...</div>
<div>FogYKWYK7</div> <div>Production </div>	<div>Ready</div> <div>1m 21s (20d ago)</div>	<div> main</div> <div> 8cfbe8f add corresponding locations</div>	<div>Jun 11 by Intran</div> <div></div> <div>...</div>
<div>BkyC8Koue</div> <div>Production </div>	<div>Ready</div> <div>1m 21s (64d ago)</div>	<div> main</div> <div> 7990b4d fix bugs</div>	<div>Apr 28 by Intran</div> <div></div> <div>...</div>
<div>C7GvncpmV</div> <div>Production</div>	<div>Error</div> <div>59s (64d ago)</div>	<div> main</div> <div> 43bb892 responsive</div>	<div>Apr 28 by Intran</div> <div></div> <div>...</div>
<div>GR18Rnxsj</div> <div>Production </div>	<div>Ready</div> <div>53s (92d ago)</div>	<div> main</div> <div> 065d04b update remove method</div>	<div>Mar 31 by Intran</div> <div></div> <div>...</div>
<div>4djabt4re</div> <div>Production </div>	<div>Ready</div> <div>1m 29s (98d ago)</div>	<div> main</div> <div> 49b4dc0 update website</div>	<div>Mar 25 by Intran</div> <div></div> <div>...</div>
<div>3Dbm43ZZB</div> <div>Production </div>	<div>Ready</div> <div>1m 3s (115d ago)</div>	<div> main</div> <div> 7a613e8 fix database</div>	<div>Mar 9 by Intran</div> <div></div> <div>...</div>
<div>2VW3hOnGq</div> <div>Production </div>	<div>Ready</div> <div>1m 3s (115d ago)</div>	<div> main</div> <div> 1c16769 add responsive</div>	<div>Mar 8 by Intran</div> <div></div> <div>...</div>