Steps

To create and activate virtual environment

-pip install virtualenv

-virtualenv {environmentname}

- First go to {environmentname}/Scripts the command is cd {environmentname}/Scripts

-Then enter command activate

-Then enter command cd .. twice to come back

Modules to Install

-pip install SQLAlchemy

-pip install fastapi "uvicorn[standard]"

To start the server the command is uvicorn application:app –reload

To stop the server press crtl+c

ADDRESS BOOK API'S

Address Details 1.0.0 OAS3

/openapi.json

You can perform CRUD operation by using this API

default	^
GET /retrieve_all_address_details Retrieve All Address Details	∨
GET /all_address_details_within_range All Address Details Within Range	∨
POST /add_new_address Add New Address	∨
DELETE /delete_address_by_id Delete Address By Id	∨
PUT /update_address_details Update Address Details	∨

Retrieve All Address Details API:

URL : http://127.0.0.1:8000/retrieve_all_address_details?skip=0&limit=100

Method : GET

Parameters : skip and limit

GET /retrieve_all_address_details Retrieve All Address Details

Parameters

Name	Description
skip integer (query)	0
limit integer (query)	100

Response : List of Address Objects

Code	Details

200 Response body

```
[
  {
    "address": "nlg",
    "pincode": "506010",
    "latitude": 27.2046,
    "longitude": 77.4977,
    "address_type": "home",
    "id": 1
  }
]
```

Response headers

```
content-length: 106
content-type: application/json
date: Tue,01 Mar 2022 09:38:29 GMT
server: uvicorn
```

All Address Details Within Range API:

URL:http://127.0.0.1:8000/all_address_details_within_range?latitude=17.103&longitude=79.242&distance=1000

Method : GET

Parameters : latitude, longitude and distance

GET   /all_address_details_within_range   All Address Details Within Range

Parameters

Name	Description
latitude * required number (query)	17.103
longitude * required number (query)	79.242
distance * required number (query)	1000

Response : List of Address Objects

Code	Details

200

Response body

```
[
  {
    "address": "nlg",
    "pincode": "506010",
    "latitude": 27.2046,
    "longitude": 77.4977,
    "address_type": "home",
    "id": 1
  }
]
```

Download

Response headers

```
content-length: 106
content-type: application/json
date: Tue,01 Mar 2022 09:44:43 GMT
server: uvicorn
```

Add New Address API:

 URL : http://127.0.0.1:8000/add_new_address

Method : POST

Request Body :


```
POST    /add_new_address   Add New Address                                                    ∧

Parameters                                                          Cancel          Reset

No parameters

Request body required                                                 application/json      ∨

{
  "address": "hyd",
  "pincode": "500012",
  "latitude": 15.14,
  "longitude": 17.89,
  "address_type": "home"
}
```

Response:


```
Code    Details

200     Response body

        {
          "address": "hyd",
          "pincode": "500012",
          "latitude": 15.14,
          "longitude": 17.89,
          "address_type": "home"
        }                                                              Download

        Response headers

        content-length: 93
        content-type: application/json
        date: Tue,01 Mar 2022 09:49:00 GMT
        server: uvicorn
```

Delete Address By Id API:

URL: http://127.0.0.1:8000/delete_address_by_id?sl_id=2

Method : DELETE

Parameters : sl_id

Response :

Update Address Details API:

URL : http://127.0.0.1:8000/update_address_details?sl_id=1

Method : PUT

Parameters : sl_id

Request Body:

Response: