

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 ctrl+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
  }
]
```

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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)	<input type="text" value="17.103"/>
longitude * required number (query)	<input type="text" value="79.242"/>
distance * required number (query)	<input type="text" value="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
  }
]
```



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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 :

The screenshot shows a REST client interface for a POST request to `/add_new_address`. The interface includes a 'Parameters' tab with 'No parameters' listed, a 'Request body' tab with a required field set to `application/json`, and a large text area containing the following JSON payload:

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

Response:

The screenshot shows the response details for a 200 status code. It includes a 'Response body' section with the following JSON payload:

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

Below the response body is a 'Response headers' section with the following 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

DELETE /delete_address_by_id Delete Address By Id ^

Parameters Cancel

Name	Description
sl_id <small>* required</small>	
integer	
(query)	

Response :

Code	Details
200	<div>Response body<pre>{ "delete status": "success"}</pre>Copy Download</div> <div>Response headers<pre>content-length: 27 content-type: application/json date: Tue,01 Mar 2022 09:52:54 GMT server: uvicorn</pre></div>

Update Address Details API:

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

Method : PUT

Parameters : `sl_id`

Request Body:

PUT

/update_address_details

Update Address Details

^

Parameters

Cancel

Reset

Name	Description
sl_id * required	
integer	1
(query)	

Request body required

application/json

```
{
  "address_type": "office",
  "address": "kishan gunj",
  "pincode": "500012",
  "latitude": 54.12,
  "longitude": 17.126
}
```

Response:

Code

Details

200

Response body

```
{
  "address": "kishan gunj",
  "pincode": "500012",
  "latitude": 54.12,
  "longitude": 17.126,
  "address_type": "office",
  "id": 1
}
```

Copy

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Response headers

```
content-length: 111
content-type: application/json
date: Tue, 01 Mar 2022 09:57:10 GMT
server: uvicorn
```