Address Book – Fastapi

Introduction:

This Address book application runs on python Fastapi. This application main agenda is to add, update and delete address. The CRUD operation can be done by the users. This application does not have GUI, the application runs on Fastapi Swagger .

Cloning the application Source code:

To get the application the user can clone the source code using Git or checkout with SVN using the web URL.

https://github.com/Mahaganesh/Address-book.git

or

You can download the app from the following url.

https://github.com/Mahaganesh/Address-book

Configuring the Application:

Once the source code is been cloned successfully. Please open application path in terminal run

pip install -r requirements.txt

This command installs all the required libraries for the application. Now the application can be runned
To run the application please run

uvicorn main:app --reload

now open the **http://127.0.0.1:8000/docs** to get to fastapi swagger

API Explanation:

This application has three different controllers.

1. User Controller (User)
2. AuthController (Auth)
3. AddressController (Address)

UserController (User):

This Controller has 3 API's, this controller creates , get user all users and get a single user with User UUID

AuthController (Auth):

This Controller has 3 API's, this controller authorize the user and gain access token, get user from accesstoken and forget password to reset the password

AddressController (Address):

This Controller has 6 API's.

1. Address Create
2. Get All Address
3. Delete Address
4. Update Address
5. Distance Calculator
6. Calculate Distance between two coordinates

1. Address Create

This API creates address with the following required details in json. And also this API does not accept repeated entries.

The payload of the API is

Name: The name of the place or person of the address.

Address_label: The address_label have the custom or default (Work or Home)

Address: The address of the place or person

Phone_no: The Phone number of the place or person

Pincode: The pincode of the region

Latitude & Longtitude: latitude and longitude, coordinate system by means of which the position or location of any place on Earth's surface can be determined and described.

2. Get All Address:

This API gets all the addresses from the database.

3. Delete Address:

Using the address uuid the address are deleted from the database.

4. Update Address:

Using the address uuid and payload from create address the address of a particular location have been updated or modified.

5. Distance Calculator:

Using the given coordinates and distance all the addresses from the database are been retrieved. Using the payload given below.

The payload of the API is

Latitude & Longtitude: latitude and longtitude, coordinate system by means of which the position or location of any place on Earth's surface can be determined and described.

Distance: The radius of the location where all the address have to be retrieved in KM. (e.g., 5)

6. Calculate distance between two coordinates:

Gets the distance between two cooridinates in kilometer is been calculated.