For this Assignment, you are required to create a FastAPI Web MVC-based Web application project and implement a RESTful Web API solution, for the Shopease management system. Arrange the output files to be the backend, data access layer, domain model and service layer.

In your solution, you are required to implement the following RESTful Web API endpoint URIs:

1. HTTP GET request: http://localhost:8080/adsweb/api/v1/ tickets - Displays the list of all support tickets, including their customer and agent, sorted in descending order by their date, in JSON format.

2. HTTP GET request: http://localhost:8080/adsweb/api/v1/ tickets /1 - Displays the data for a ticket whose ticketId is 1 including the details, in JSON format. Also, make sure to implement appropriate exception handling, for where ticketId is invalid and not found.

3. HTTP POST request: [http://localhost:8080/adsweb/api/v1/ticket](http://localhost:8080/adsweb/api/v1/ticket%20)  - Register a new ticket into the system. Note: You supply the correct/appropriate ticket data in JSON format

4. HTTP PUT request: http://localhost:8080/adsweb/api/v1/ticket/1 - Retrieves and updates ticket data for the ticket whose ticketId is 1 (or any other valid ticketId). Also, make sure to implement appropriate exception handling, for where tickettId is invalid and not found.

5. HTTP DELETE request: http://localhost:8080/adsweb/api/v1/ticket/1 - Deletes the ticket data for the ticket whose ticketId is 1 (or any other valid ticketId).

6. http://localhost:8080/adsweb/api/v1/customer/search/{searchString} - Queries all the customer data for the customer(s) whose data matches the input searchString.

7. HTTP GET request: http://localhost:8080/adsweb/api/v1/customer/addresses - Displays the list of all Addresses, including the customers data, sorted in ascending order by their city, in JSON format.