Please find first home exercise. For those how will complete this exercise, we might want to have a second exercise.

General Guidelines:

-        Please upload your code to a code sharing site – github

-        Code quality and design will be reviewed

-        Use python as programming language

-        Add a “readme” file with a short explanation on the project, needed pre requirements, how to run, etc.

1.       Implement server using “flask” microframework.

The server should include the following API’s:

∙       **POST / AddMessage**

Create a new message in server.

Sent data should be JSON.

{

        application\_id: {application id}

        session\_id: {unique session id}

        message\_id: {unique message id}

        participants: [list of participant names]

        content: {message}

}

Example:

POST http://{host\_ip}:{port}/ AddMessage

data = {

        application\_id: 1,

        session\_id: ‘aaaa’,

        message\_id: ‘bbbb’,

        participants: [‘avi aviv’, ‘moshe cohen’]

        content: ‘Hi, how are you today?’

}

∙       **GET /GetMessage**

Return data (that stored as JSON) according to the url parameter.

url paramters should be one of the following:

o    applicationId – should return list of messages with the application id.

o    sessionId – should return list of messages with that session id.

o    messageId– should return single message with the message id.

Example:

GET http://{host\_ip}:{port}/GetMessage?applicationId=1

GET http://{host\_ip}:{port}/GetMessage?sessionId=aaaa

GET http://{host\_ip}:{port}/GetMessage?messageId=bbbb

∙       **DELETE /DeleteMessage**

Delete message according to the url parameter.

o   applicationId – remove all messages with the application Id.

o    sessionId – remove all messages with the session Id.

o    messageId– remove single message with the message Id.

Example:

GET http://{host\_ip}:{port}/DeleteMessage?applicationId=1

GET http://{host\_ip}:{port}/DelteMessage?sessionId=aaaa

GET http://{host\_ip}:{port}/DeleteMessage?messageId=bbbb

2.       Write a test plan for the API’s that you implemented.

3.       Implement the test plan using “pytest” framework.

4.       Advance – use a database to store your data (use SQlite)