For the completion of this task we are making use of FLASK framework for Python and SQLITE as database.

**Flask:**

I have worked on Django, Web2Py and Flask frameworks for Python web development. I preferred Flask for this task as it was a light application, thus creating it in Flask provides me simplicity, flexibility and robustness. It eases the creation of RESTful APIs using python for smaller applications like these.

**SQLite:**

I have worked on RDMS as well as NoSQL databases but for this task I preferred using SQLite as only small amount of data was required to be stored. Thus, the advantage it provides is of higher performance than storing data in files. The application only need to load as much data as it needs, rather than reading the entire application file and holding a complete parse in memory. Start-up time and memory consumption are reduced as well.

Also, as it was recommended in the problem statement, SQLite became a default choice for this task.

In this task, I have created 4 classes, one for each API call for display, add, update and delete user’s book list.

1. User will first go to <http://127.0.0.1:5010/> where user’s Wishlist will be displayed in JSON format.

**Method:** GET

1. To add Books to the Wishlist we need to hit <http://127.0.0.1:5010/add> and pass the book attributes in the request body. Refer following example:

**Headers:** Content-Type : application/json

**Request Body:** *{"title":”Prince Of Persia”, "author":”J.K. Rowling”, "isbn":372314962, "date\_of\_publication":”2 Jul,1998”}*

**Method:** POST

1. To Delete Books from the Wishlist we need to hit <http://127.0.0.1:5010/delete> and pass isbn number of the books in the body(JSON). Refer following example:

**Headers:** Content-Type : application/json

**Request Body:** *{"isbn":107712156}*

**Method:** DELETE

1. To Update books from the Wishlist we need to hit <http://127.0.0.1:5010/update> and pass the updated attributes of the books. You cannot update isbn number but its required to update the respective record. Also, you need to pass the entire column values in JSON format. The values which are updated will be saved in the database.

**Headers:** Content-Type : application/json

**Request Body:** *{"title":”Prince Of Persia”, "author":”J.K. Rowling”, "isbn":372314962, "date\_of\_publication":”2 Jul,1998”}*

**Method:** PUT