

# Manual Testing Plan

## Environment:

### OS Support:

- Windows 10

### IDE:

- PyCharm 64-Bit
  - Can be found at:  
<https://www.jetbrains.com/pycharm/download/#section=windows>

### Python Version:

- Python 3.8.4
  - Can be found at: <https://www.python.org/downloads/>

### Testing Apparatus:

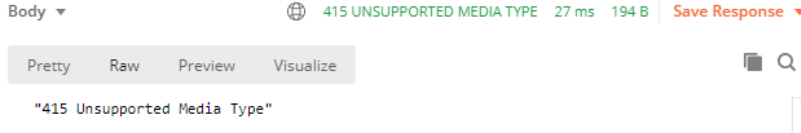
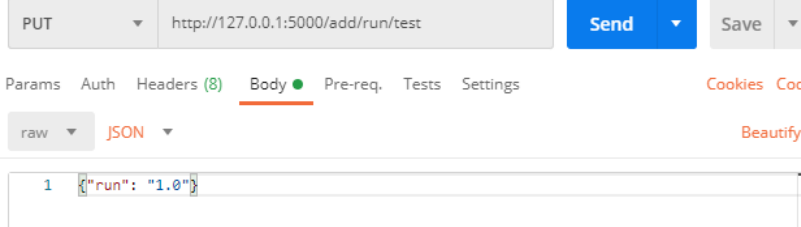
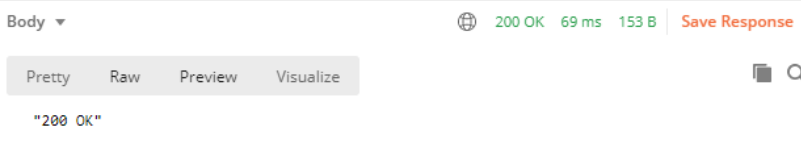
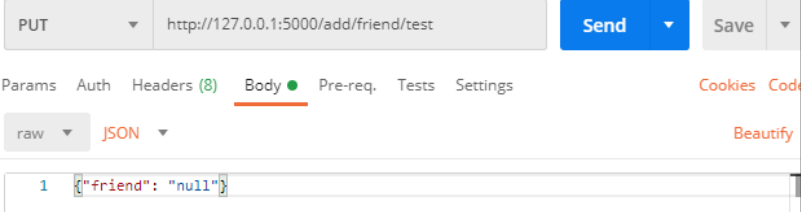
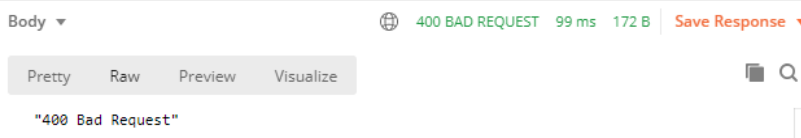
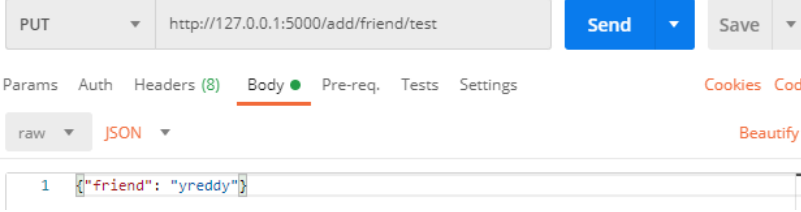
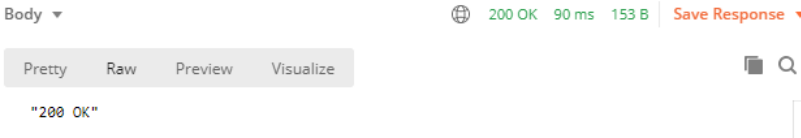
- Postman
  - Can be found at: <https://www.postman.com/downloads/>

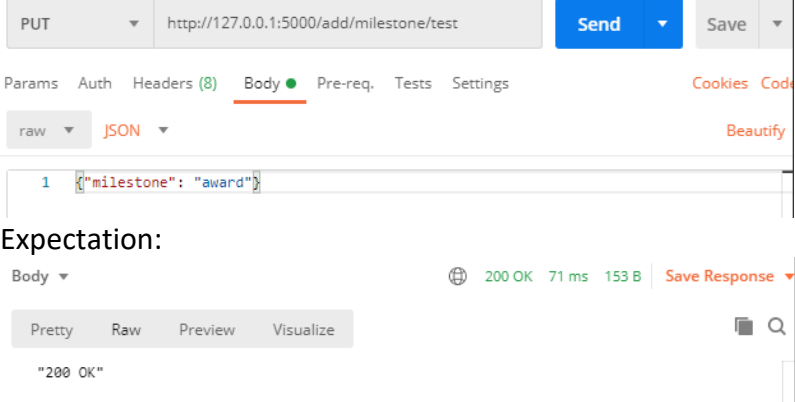
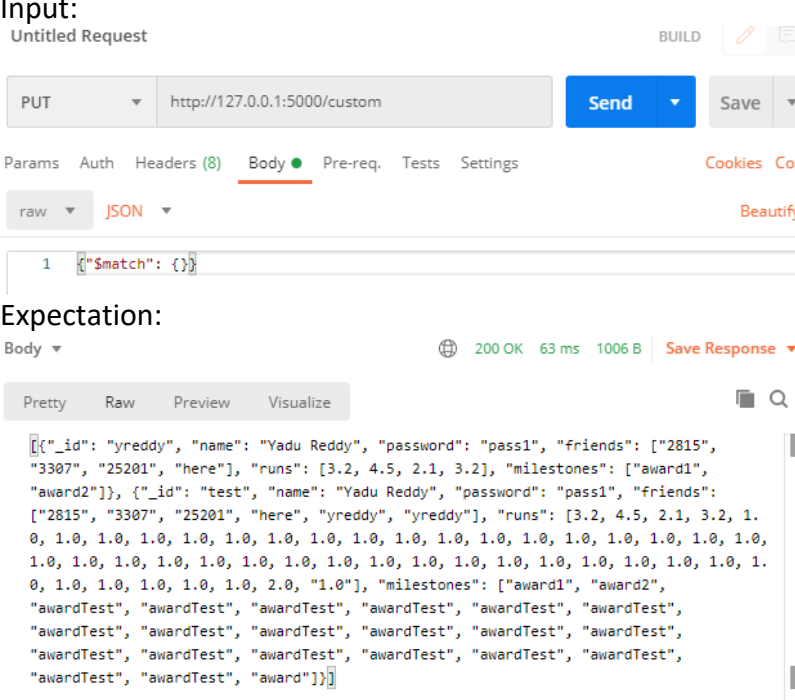
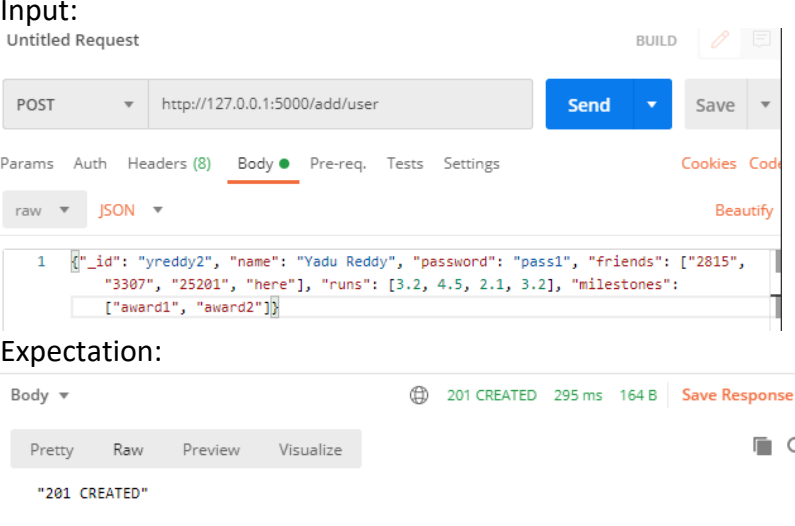
### Modules Needed:

- Flask:
  - Used to connect to the database
- Requests:
  - Used in testing to access the API

# API:

Test	Explanation
<p><b>Input:</b></p> <p>GET <input type="text" value="http://127.0.0.1:5000/get/user/yreddy"/> <input type="button" value="Send"/></p> <p><b>Expectation:</b></p> <p>Body <span>200 OK 78 ms 326 B</span> <input type="button" value="Save Response"/></p> <p>Pretty Raw Preview Visualize</p> <pre>{   "_id": "yreddy",   "name": "Yadu Reddy",   "password": "pass1",   "friends": ["2815", "3307", "25201", "here"],   "runs": [3.2, 4.5, 2.1, 3.2],   "milestones": ["award1", "award2"] }</pre>	<p>With the get command a user can be retrieved and a '200 OK' status is sent if successfully sent the user.</p>
<p><b>Input:</b></p> <p>GET <input type="text" value="http://127.0.0.1:5000/get/runs/yreddy"/> <input type="button" value="Send"/> <input type="button" value="Save"/></p> <p><b>Expectation:</b></p> <p>Body <span>200 OK 52 ms 173 B</span> <input type="button" value="Save Response"/></p> <p>Pretty Raw Preview Visualize</p> <pre>[3.2, 4.5, 2.1, 3.2]</pre>	<p>Runs of a specific user can also be retrieved.</p>
<p><b>Input:</b></p> <p>GET <input type="text" value="http://127.0.0.1:5000/get/friends/yreddy"/> <input type="button" value="Send"/> <input type="button" value="Save"/></p> <p><b>Expectation:</b></p> <p>Body <span>200 OK 57 ms 186 B</span> <input type="button" value="Save Response"/></p> <p>Pretty Raw Preview Visualize</p> <pre>["2815", "3307", "25201", "here"]</pre>	<p>Friends of a user can also be retrieved.</p>
<p><b>Input:</b></p> <p>GET <input type="text" value="http://127.0.0.1:5000/get/milestones/yreddy"/> <input type="button" value="Send"/> <input type="button" value="Save"/></p> <p><b>Expectation:</b></p> <p>Body <span>200 OK 54 ms 173 B</span> <input type="button" value="Save Response"/></p> <p>Pretty Raw Preview Visualize</p> <pre>["award1", "award2"]</pre>	<p>Milestones of a user can also be retrieved</p>
<p><b>Input:</b></p> <p>PUT <input type="text" value="http://127.0.0.1:5000/add/run/test"/> <input type="button" value="Send"/> <input type="button" value="Save"/></p> <p>Params Auth Headers (8) <b>Body</b> Pre-req. Tests Settings <span>Cookies Code</span></p> <p>raw <input type="text" value="JSON"/> <span>Beautify</span></p> <pre>1 {   "un": "1.0" }</pre> <p><b>Expectation:</b></p>	<p>If a parameter is sent that is not understood by the API then a '415 Unsupported Media Type' is sent back to the user.</p>

	
<p><b>Input:</b></p>  <p><b>Expectation:</b></p> 	<p>Runs can be added using PUT to a certain user. If successfully added, then '200 OK' status is sent back.</p>
<p><b>Input:</b></p>  <p><b>Expectation:</b></p> 	<p>If the user tries to add a friend that is not in the database then '400 Bad Request Error' is sent to the user indicating that the friend is not in the database.</p>
<p><b>Input:</b></p>  <p><b>Expectation:</b></p> 	<p>Friends can be added to the user if they are also in the database.</p>
<p><b>Input:</b></p>	<p>Awards can be added using PUT to a certain user.</p>

 <p><b>Expectation:</b></p>	
 <p><b>Expectation:</b></p>	<p>User can input a custom query to the API. Here the custom query gets all the users in the database.</p>
 <p><b>Expectation:</b></p>	<p>A user can also be created. If all the parameters are right then a '201 Created' status is sent back.</p>

## Input:

POST http://127.0.0.1:5000/add/user Send Save

Params Auth Headers (8) **Body** Pre-req. Tests Settings Cookies Code

raw JSON Beautify

```
1 [{"_id": "yreddy12", "name": "Vadu Reddy", "password": "pass1", "null": ["2815", "3307", "25201", "here"], "runs": [3.2, 4.5, 2.1, 3.2], "milestones": ["award1", "award2"]}]
```

## Expectation:

Body 415 UNSUPPORTED MEDIA TYPE 149 ms 194 B Save Response

Pretty Raw Preview Visualize

"415 Unsupported Media Type"

If a parameter is unsupported by the API then a '415 Unsupported Media Type' Error is sent to the User.