# Manual Test Plan(Postman)

Test Version

Branch: project-2.0

Environment Setup & Configuration

- All set up in previous manual test plan is also required for this plan.
- Test Tool: Postman. Download here: https://www.postman.com/
- Run web_api.py in Pycharm first.

Manual Test Process

(1) Test /api/rank route. The following get request should work. Query result should be the info of top 15 games in this region.
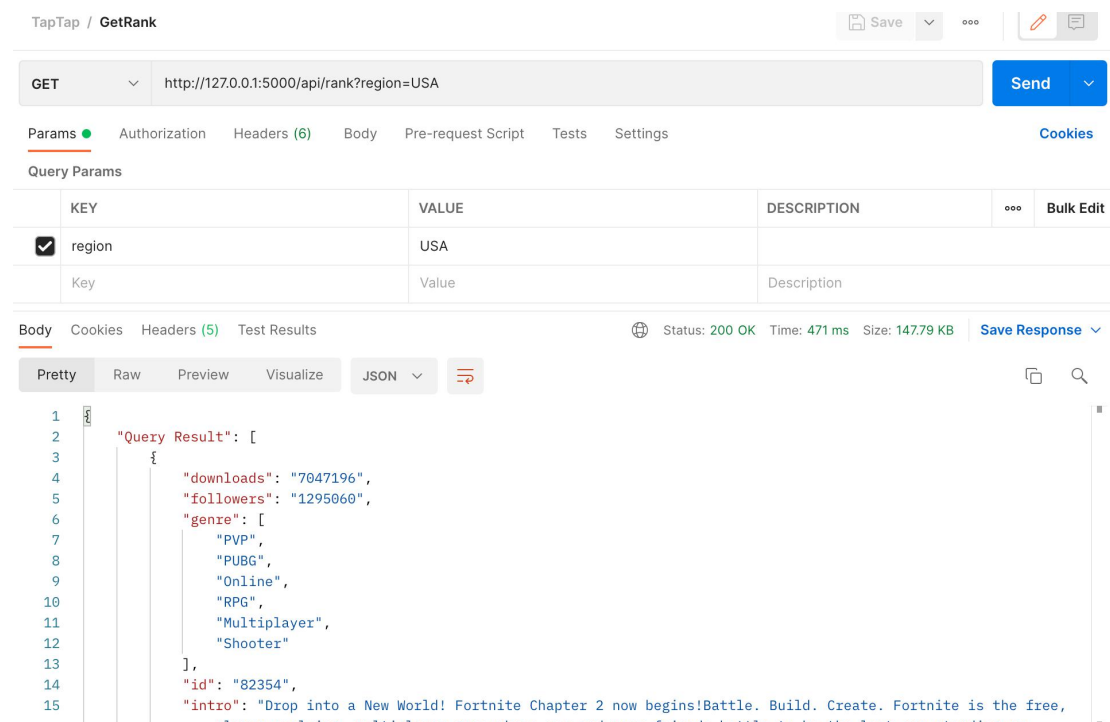
If region is not specified in query argument or incorrect region name is provided, then status code should not be 200 and server should return error message:

GET   http://127.0.0.1:5000/api/rank?   Send

Params ●   Authorization   Headers (6)   Body   Pre-request Script   Tests   Settings   Cookies

Query Params

	KEY	VALUE	DESCRIPTION	ooo	Bulk Edit
☑					
	Key	Value	Description		

Body   Cookies   Headers (5)   Test Results   Status: 400 BAD REQUEST   Time: 162 ms   Size: 241 B   Save Response ⌄

Pretty   Raw   Preview   Visualize   JSON ⌄

```
1  {
2      "Error_message": "Query arg region is not valid"
3  }
```

GET   http://127.0.0.1:5000/api/rank?region=Apple   Send

Params ●   Authorization   Headers (6)   Body   Pre-request Script   Tests   Settings   Cookies

Query Params

	KEY	VALUE	DESCRIPTION	ooo	Bulk Edit
☑	region	Apple			
	Key	Value	Description		

Body   Cookies   Headers (5)   Test Results   Status: 400 BAD REQUEST   Time: 407 ms   Size: 241 B   Save Response ⌄

Pretty   Raw   Preview   Visualize   JSON ⌄

```
1  {
2      "Error_message": "Query arg region is not valid"
3  }
```

(2) Test /api/genre route. The following get request should work. Query result should be a list of dict containing info of games containing this genre.

Params ● | Authorization | Headers (6) | Body | Pre-request Script | Tests | Settings | Cookies

Query Params

	KEY	VALUE	DESCRIPTION	○○○	Bulk Edit
☑	genre	Pixel			
	Key	Value	Description		

Body | Cookies | Headers (5) | Test Results   🌐 Status: 200 OK   Time: 213 ms   Size: 90.05 KB   Save Response ∨

Pretty | Raw | Preview | Visualize | JSON ∨ | ⇥

```
 1  {
 2      "Query Result": [
 3          {
 4              "downloads": "785730",
 5              "followers": "152938",
 6              "genre": [
 7                  "Online",
 8                  "Multiplayer",
 9                  "Sandbox",
10                  "Open World",
11                  "Pixel",
12                  "Freedom",
13                  "Creative",
14                  "DIY",
15                  "Building"
16              ]
```

🎓 Bootcamp   ▶ Runner   🗑 Trash

If genre is not specified in query argument or incorrect genre name is provided, then status code should not be 200 and server should return error message:

TapTap / GetGenre   💾 Save ∨   ○○○   🖉 💬

Params | Authorization | Headers (6) | Body | Pre-request Script | Tests | Settings | Cookies

Query Params

	KEY	VALUE	DESCRIPTION	○○○	Bulk Edit
	Key	Value	Description		

Body | Cookies | Headers (5) | Test Results   🌐 Status: 400 BAD REQUEST   Time: 9 ms   Size: 240 B   Save Response ∨

Pretty | Raw | Preview | Visualize | JSON ∨ | ⇥

```
 1  {
 2      "Error_message": "Query arg genre is not valid"
 3  }
```

```
GET  ∨  http://127.0.0.1:5000/api/genre?genre=null          Send  ∨
```

Params ●   Authorization   Headers (6)   Body   Pre-request Script   Tests   Settings   Cookies

Query Params

	KEY	VALUE	DESCRIPTION	ooo	Bulk Edit
☑	genre	null			
	Key	Value	Description		

Body   Cookies   Headers (5)   Test Results   🌐 Status: 400 BAD REQUEST   Time: 55 ms   Size: 240 B   Save Response ∨

Pretty   Raw   Preview   Visualize   JSON ∨   ⇥   📋 🔍

```
1  {
2      "Error_message": "Query arg genre is not valid"
3  }
```

(3) Test /api/game route. The following get request should work. Body should contain list of game id for query. Content type must be application/json. Query result is info of all requested games.

```
GET  ∨  http://127.0.0.1:5000/api/game                       Send  ∨
```

Params   Authorization   Headers (8)   Body ●   Pre-request Script   Tests   Settings   Cookies

● none   ● form-data   ● x-www-form-urlencoded   ● raw   ● binary   ● GraphQL   JSON ∨   Beautify

```
1  ["2247", "214145"]
```

Body   Cookies   Headers (5)   Test Results   🌐 Status: 200 OK   Time: 106 ms   Size: 16.74 KB   Save Response ∨

Pretty   Raw   Preview   Visualize   JSON ∨   ⇥   📋 🔍
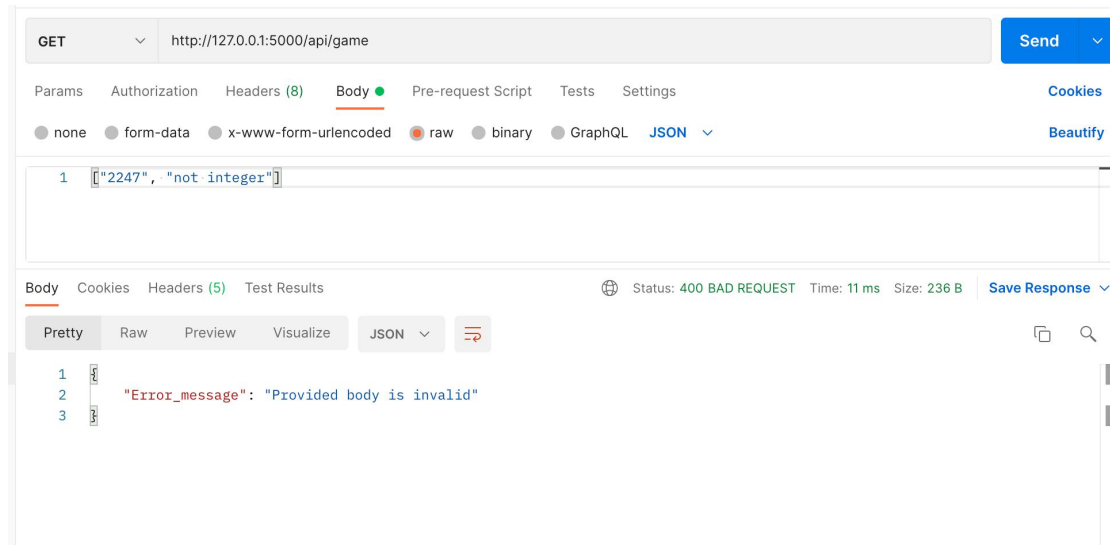
```
1   {
2       "Query Result": [
3           {
4               "downloads": "1093355",
5               "followers": "252324",
6               "genre": [
7                   "Fighting",
8                   "Action",
9                   "ACG",
10                  "Naruto",
11                  "Side-scroll",
12                  "Anime",
13                  "JRPG"
14              ],
15              "id": "2247",
```
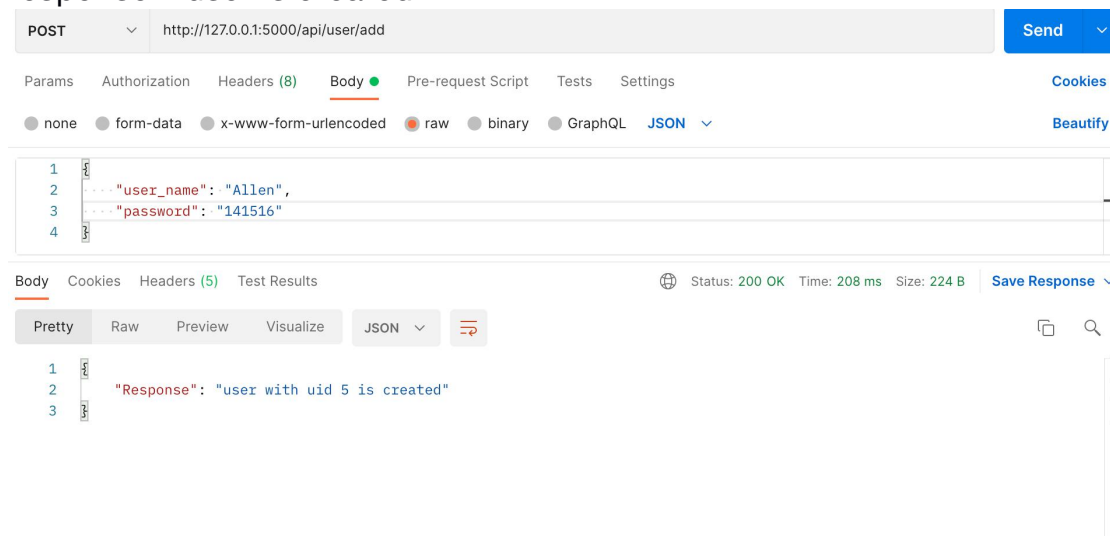
If body contain invalid data structure or content type is incorrect, then status code should not be 200 and server should return error message:

GET ⌄ http://127.0.0.1:5000/api/game

Params   Authorization   Headers (8)   Body ●   Pre-request Script   Tests   Settings

● none   ● form-data   ● x-www-form-urlencoded   ● raw   ● binary   ● GraphQL   JSON ⌄

1 ["2247", "not integer"]

Body   Cookies   Headers (5)   Test Results   Status: 400 BAD REQUEST   Time: 11 ms   Size: 236 B   Save Response ⌄

Pretty   Raw   Preview   Visualize   JSON ⌄

1 {
2   "Error_message": "Provided body is invalid"
3 }

(4)Test /api/user/add route. The following post request should work. Body should contain a dict specifing user name and password. Content type must be application/json.Server should return success response if user is created:

POST ⌄ http://127.0.0.1:5000/api/user/add

Params   Authorization   Headers (8)   Body ●   Pre-request Script   Tests   Settings

● none   ● form-data   ● x-www-form-urlencoded   ● raw   ● binary   ● GraphQL   JSON ⌄

1 {
2   "user_name": "Allen",
3   "password": "141516"
4 }

Body   Cookies   Headers (5)   Test Results   Status: 200 OK   Time: 208 ms   Size: 224 B   Save Response ⌄

Pretty   Raw   Preview   Visualize   JSON ⌄

1 {
2   "Response": "user with uid 5 is created"
3 }

If body contain invalid data structure or content type is incorrect, then status code should not be 200 and server should return error message:

```
POST        ∨    http://127.0.0.1:5000/api/user/add                                              Send   ∨

Params   Authorization   Headers (8)   Body ●   Pre-request Script   Tests   Settings                Cookies

○ none   ○ form-data   ○ x-www-form-urlencoded   ● raw   ○ binary   ○ GraphQL   JSON ∨        Beautify

1   {
2       "invalid_key": "Allen",
3       "password": "141516"
4   }

Body   Cookies   Headers (5)   Test Results          ⊕ Status: 400 BAD REQUEST  Time: 21 ms  Size: 236 B   Save Response ∨

Pretty   Raw   Preview   Visualize   JSON ∨   ⇥

1   {
2       "Error_message": "Provided body is invalid"
3   }
```

(5) Test /api/user/password route. The following get request should work. User should specify id in parameter. Query result is password of this user

```
GET         ∨    http://127.0.0.1:5000/api/user/password?id=3                                    Send   ∨

Params ●   Authorization   Headers (6)   Body   Pre-request Script   Tests   Settings              Cookies

Query Params
```

	KEY	VALUE	DESCRIPTION	∘∘∘	Bulk Edit
☑	id	3			
	Key	Value	Description		

```
Body   Cookies   Headers (5)   Test Results          ⊕ Status: 200 OK  Time: 346 ms  Size: 208 B   Save Response ∨

Pretty   Raw   Preview   Visualize   JSON ∨   ⇥

1   {
2       "Query Result": "141516"
3   }
```

If id is not specified in query argument or invalid id(user not exist) is provided, then status code should not be 200 and server should return error message:

(6) Test /api/user/password route. The following put request should work. User should specify id and password in parameter. Server should return success response

If id or password is not specified in query argument or invalid id(user not exist) is provided, then status code should not be 200 and server should return error message:

PUT | http://127.0.0.1:5000/api/user/password?id=7&password=123 | **Send**

Params ● | Authorization | Headers (7) | Body | Pre-request Script | Tests | Settings | **Cookies**

	KEY	VALUE	DESCRIPTION	∘∘∘	Bulk Edit
☑	id	7			
☑	password	123			
	Key	Value	Description		

Body | Cookies | Headers (5) | Test Results | Status: 400 BAD REQUEST | Time: 51 ms | Size: 237 B | **Save Response** ⌄

Pretty | Raw | Preview | Visualize | JSON ⌄

```
1  {
2      "Error_message": "Query arg id is not valid"
3  }
```

(7) Test /api/user/info route. The following get request should work. User should specify id in parameter. Query result is all info of this user

GET | http://127.0.0.1:5000/api/user/info?id=1 | **Send**

Params ● | Authorization | Headers (6) | Body | Pre-request Script | Tests | Settings | **Cookies**

Query Params

	KEY	VALUE	DESCRIPTION	∘∘∘	Bulk Edit
☑	id	1			
	Key	Value	Description		

Body | Cookies | Headers (5) | Test Results | Status: 200 OK | Time: 93 ms | Size: 318 B | **Save Response** ⌄

Pretty | Raw | Preview | Visualize | JSON ⌄

```
1   {
2       "Query Result": [
3           {
4               "favourite_list": [],
5               "id": "1",
6               "password": "123",
7               "user_name": "Allen"
8           }
9       ]
10  }
```

If id is not specified in query argument or invalid id(user not exist) is provided, then status code should not be 200 and server should return error message:

```
GET      ∨      http://127.0.0.1:5000/api/user/info?id=7                              Send  ∨

Params •    Authorization    Headers (6)    Body    Pre-request Script    Tests    Settings          Cookies

Query Params

        KEY                         VALUE                    DESCRIPTION              ∘∘∘  Bulk Edit
  ☑    id                          7
       Key                         Value                    Description

Body    Cookies    Headers (5)    Test Results        ⊕ Status: 400 BAD REQUEST  Time: 58 ms  Size: 237 B    Save Response ∨

Pretty    Raw    Preview    Visualize    JSON ∨    ⇥                                      ⧉  🔍

1  {
2      "Error_message": "Query arg id is not valid"
3  }
```

(8) Test /api/user/favourite route. The following put request should work. User should specify user_id and game_id in parameter. Server should return success response


```
PUT      ∨      http://127.0.0.1:5000/api/user/favourite?user_id=2&game_id=2247          Send  ∨

Params •    Authorization    Headers (7)    Body    Pre-request Script    Tests    Settings          Cookies

        KEY                         VALUE                    DESCRIPTION              ∘∘∘  Bulk Edit
  ☑    user_id                     2
  ☑    game_id                     2247
       Key                         Value                    Description

Body    Cookies    Headers (5)    Test Results        ⊕ Status: 200 OK  Time: 302 ms  Size: 233 B    Save Response ∨

Pretty    Raw    Preview    Visualize    JSON ∨    ⇥                                      ⧉  🔍

1  {
2      "Response": "Game 2247 added to user 2 favourite"
3  }
```

If id or password is not specified in query argument or invalid id(user/game not exist) is provided, then status code should not be 200 and server should return error message:

PUT ∨ http://127.0.0.1:5000/api/user/favourite?user_id=2&game_id=3   **Send** ∨

Params ●   Authorization   Headers (7)   Body   Pre-request Script   Tests   Settings   **Cookies**

	KEY	VALUE	DESCRIPTION	••• Bulk Edit
☑	user_id	2		
☑	game_id	3		
	Key	Value	Description	

Body   Cookies   Headers (5)   Test Results   Status: 400 BAD REQUEST   Time: 161 ms   Size: 251 B   Save Response ∨

Pretty   Raw   Preview   Visualize   JSON ∨

```
1  {
2      "Error_message": "Query arg user_id/game_id are not valid"
3  }
```

(9) Test /api/user/favourite route. The following delete request should work. User should specify user_id and game_id in parameter. Server should return success response

DELETE ∨ http://127.0.0.1:5000/api/user/favourite?user_id=2&game_id=2247   **Send** ∨

Params ●   Authorization   Headers (6)   Body   Pre-request Script   Tests   Settings   **Cookies**

	KEY	VALUE	DESCRIPTION	••• Bulk Edit
☑	user_id	2		
☑	game_id	2247		
	Key	Value	Description	

Body   Cookies   Headers (5)   Test Results   Status: 200 OK   Time: 246 ms   Size: 236 B   Save Response ∨

Pretty   Raw   Preview   Visualize   JSON ∨

```
1  {
2      "Response": "Game 2247 remove from user 2 favourite"
3  }
```

If id or password is not specified in query argument or invalid id(user/game not exist) is provided, then status code should not be 200 and server should return error message:

```
DELETE    ⌄    http://127.0.0.1:5000/api/user/favourite?user_id=2&game_id=2247              Send    ⌄

Params ●   Authorization   Headers (6)   Body   Pre-request Script   Tests   Settings                      Cookies

        KEY                          VALUE                          DESCRIPTION              ooo   Bulk Edit
  ☑    user_id                      2
  ☑    game_id                      2247
        Key                          Value                          Description

Body   Cookies   Headers (5)   Test Results        🌐  Status: 400 BAD REQUEST   Time: 238 ms   Size: 257 B   Save Response ⌄

  Pretty    Raw    Preview    Visualize    JSON ⌄   ⇥                                           📋  🔍

  1  {
  2      "Error_message": "User doesn't have this game in favourite list"
  3  }
```

(10) Test /api/search route. The following get request should work. User should specify query string in parameter. Query result is all info of games satisfying this query string

```
GET    ⌄    http://127.0.0.1:5000/api/search?query=Genre: RPG AND !JRPG AND Card; Rating: > 7.0        Send    ⌄

Params ●   Authorization   Headers (6)   Body   Pre-request Script   Tests   Settings                      Cookies

Query Params

        KEY                          VALUE                                    DESCRIPTION          ooo   Bulk Edit
  ☑    query                        Genre: RPG AND !JRPG AND Card; Rating: > 7.0
        Key                          Value                                    Description

Body   Cookies   Headers (5)   Test Results        🌐  Status: 200 OK   Time: 66 ms   Size: 8.17 KB   Save Response ⌄

  Pretty    Raw    Preview    Visualize    JSON ⌄   ⇥                                           📋  🔍

  1  {
  2      "Query Result": [
  3          {
  4              "downloads": "17448",
  5              "followers": "69720",
  6              "genre": [
  7                  "Idle",
  8                  "Hang up",
  9                  "Card",
 10                  "RPG"
 11              ],
 12              "id": "150204",
 13              "intro": "*** SUMMON - COLLECT - LEVEL UP  ***Over 100 heroes in seven factions. Build the ultimate
                   formations and battle your way to the top. Celestials, Hypogeans, Dimensionals are the rarest. ***
                   STRATEGIC BATTLE ***Equip your heroes and strategize unbeatable lineups to overcome your enemies in
```

If query is not specified in parameter or invalid query string is provided, then status code should not be 200 and server should return error message:

GET ▾ http://127.0.0.1:5000/api/search

Params Authorization Headers (6) Body Pre-request Script Tests Settings

Query Params

	KEY	VALUE	DESCRIPTION	•••	Bulk Edit
	Key	Value	Description		

Body Cookies Headers (5) Test Results

Status: **400 BAD REQUEST** Time: **12 ms** Size: **238 B** Save Response ▾

Pretty Raw Preview Visualize JSON ▾

```
1  {
2      "Error_message": "Query arg query is invalid"
3  }
```