

API Test Suite – Group 8 – Wings of Freedom



Page Being Tested: Register Page

API Model: User

S.no	API Route	Input	Expected Output	Actual Output	Result
1	/user	Name: Hrithick Username: hriyuva1 Password: iitm123 Role: Student	Successfully registered. Redirect to Login	Status:200 @login endpoint	Success

Page Being Tested: Login Page

API Model: User

S.no	API Route	Input	Expected Output	Actual Output	Result
1	/user/login	Username: hriyuva1 Password: iitm123	Successfully logged in Redirect to Dashboard	Status:200 @dashboard endpoint	Success
2	/user/logout	/logout	Successfully logged out Redirect to Login page	Status:200 @login endpoint	Success

Page Being Tested: User Info – Update and Delete

API Model: User

S.no	API Route	Input	Expected Output	Actual Output	Result
1	/user/<int:user_id>	user_id: 23	Name:Hrithick, Username: hriyuva1, Role:Student	Status:200 @User_info Name: Hrithick, Username: hriyuva1, Role:Student	S U C C E S S
2	/user/<int:user_id>	user_id: 23 name: Yuvaraj	Name: Yuvaraj Username: hriyuva1 Role:Student	Status:200 @User_info: Name:Yuvaraj Username: hriyuva1 Role:Student	S U C C E S S

3	/user/<int:user_id>	user_id:23	Successfully logged out Credentials and account deleted Redirect to Login page	Status: 404 Not found @login endpoint	S u c c e s s
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Page Being Tested: [Dashboard](#)

API Model: [Tickets, Messages](#)

S.no	Page being tested	Input	Expected Output	Actual Output	Result
1	/user/<int:user_id>/ticket	user_id:23	'ticket_id':01 'likes' =45 'created_date':01/02/23 'is_resolved': False 'Subject':MLP Project viva form closed 'messages': <List> 'user_id': 23, 'ticket_id':02 'likes' =4 'created_date':03/03/23 'is_resolved': False	Status:200 @dashboard endpoint 'ticket_id':01 'likes' =45 'created_date':01/02/23 'is_resolved': False 'Subject':MLP Project viva form closed 'messages': <List> 'user_id': 23	Success

			'Subject':MLP Project cut-off 'messages':None 'user_id': 23	'ticket_id':02 'likes' =4 'created_date':03/03/23 'is_resolved': False 'Subject':MLP Project cut-off 'messages':None 'user_id': 23	
2	/ticket/<ticket_id>/message	ticket_id=03	'message_id':01, 'user_id': 34, 'created_date': 03/03/23, 'content': "I am facing the same issue" 'ticket_id': 03	Status:200 @dashboard_endpoint 'message_id':01, 'user_id': 34, 'created_date': 03/03/23, 'content': "I am facing the same issue" 'ticket_id': 03	Success

Page Being Tested: **Dashboard**

API Model: Tickets, Messages Creation

S.no	Page being tested	Input	Expected Output	Actual Output	Result
1	/user/<int:user_id>/ticket	<p>'ticket_id':01</p> <p>'likes' =45</p> <p>'created_date':01/02/23</p> <p>'is_resolved': False</p> <p>'subject':MLP Project viva form closed</p> <p>'messages': <List></p> <p>'user_id': 23,</p>	<p>Successfully Created</p> <p>Redirects to Dashboard</p>	<p>Status:200</p> <p>@dashboard endpoint</p> <p>'ticket_id':01</p> <p>'likes' =45</p> <p>'created_date':01/02/23</p> <p>'is_resolved': False</p> <p>'Subject':MLP Project viva form closed</p> <p>'messages': <List></p> <p>'user_id': 23</p> <p>'ticket_id':02</p> <p>'likes' =4</p> <p>'created_date':03/03/23</p> <p>'is_resolved': False</p> <p>'Subject':MLP Project cut-off</p> <p>'messages':None</p> <p>'user_id': 23</p>	Success

2	/ticket/<ticket_id>/message	<p>'message_id':01,</p> <p>'user_id': 34,</p> <p>'created_date': 03/03/23,</p> <p>'content': "I am facing the same issue"</p> <p>'ticket_id': 03</p>	<p>Successfully Created</p> <p>Redirects to Dashboard</p>	<p>Status:200</p> <p>@dashboard_endpoint</p> <p>'message_id':01,</p> <p>'user_id': 34,</p> <p>'created_date': 03/03/23,</p> <p>'content': "I am facing the same issue"</p> <p>'ticket_id': 03</p>	Success
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Page Being Tested: Ticket Info – Update and Delete

API Model: Ticket

S.no	API Route	Input	Expected Output	Actual Output	Result
1	/ticket/<int:ticket_id>	ticket_id: 01	<p>'ticket_id':01</p> <p>'likes' =45</p> <p>'created_date':01/02/23</p> <p>'is_resolved': False</p> <p>'Subject':MLP Project viva form closed</p> <p>'messages': <List></p> <p>'user_id': 23</p>	<p>Status:200</p> <p>@User_info</p> <p>'ticket_id':02</p> <p>'likes' =4</p> <p>'created_date':03/03/23</p> <p>'is_resolved': False</p> <p>'Subject':MLP Project cut-off</p> <p>'messages':None</p> <p>'user_id': 23</p>	Success

2	/ ticket <int: ticket_id>	ticket_id :02 is_resolved : True	'ticket_id':02 'likes' =4 'created_date':03/03/23 'is_resolved': True 'Subject':MLP Project cut-off 'messages':None 'user_id': 23	Status:200 @User_info: 'ticket_id':02 'likes' =4 'created_date':03/03/23 'is_resolved': False 'Subject':MLP Project cut-off 'messages':None 'user_id': 23	Success
3	/ ticket <int: ticket_id>	ticket_id :01	Successfully Deleted Credentials and account deleted Redirect to Dashboard	Status: 404 Not found @Dashboard endpoint	Success

Page Being Tested: **Message Info – Update and Delete**

API Model: **Message**

S.no	API Route	Input	Expected Output	Actual Output	Result
1	/ticket/<ticket_id>/message/<message_id>	ticket_id =03 message_id =01	'message_id':01,	Status:200	Success

			'user_id': 34, 'created_date': 03/03/23, 'content': "I am facing the same issue" 'ticket_id': 03	@User_info 'message_id': 01, 'user_id': 34, 'created_date' ': 03/03/23, 'content': "I am facing the same issue" 'ticket_id': 03	
2	/ticket/<ticket_id>/ message/<message_id>	ticket_id:03 message_id=01 content="I got this issue resolved"	'message_id':01, 'user_id': 34, 'created_date': 03/03/23, 'content': "I got this issue resolved""ticket_id': 03	Status:200 @User_info: 'message_id': 01, 'user_id': 34, 'created_date' ': 03/03/23, 'content': "I got this issue resolved""tick et_id': 03	Success
3	/ticket/<ticket_id>/ message/<message_id>	ticket_id:01 message_id=01	Successfully Deleted Redirect to Dashboard	Status: 404 Not found @Dashboard endpoint	Success

Pytest implementation from the project source code

```
8
9 def test_create_message_in_ticket():
10     url = 'http://localhost:8080/api/ticket/1/message'
11     params = {
12         "user_id": 2,
13         "content": "Newly Created",
14         "ticket_id": 1
15     }
16     r = requests.post(url = url, json = params)
17     # Sets up Message data for further test
18     global newly_created_message
19     newly_created_message = r.json()
20     assert r.status_code == 201 and newly_created_message["content"] == params["content"]
21
22 def test_get_message_by_message_id():
23     global newly_created_message
24     url = 'http://localhost:8080/api/ticket/1/message/' + str(newly_created_message["message_id"])
25     r = requests.get(url = url)
26     data = r.json()
27     assert r.status_code == 200 and data == newly_created_message
28
29 def test_update_message():
30     global newly_created_message
31     url = 'http://localhost:8080/api/ticket/1/message/' + str(newly_created_message["message_id"])
32     params = {
33         "user_id": 2,
34         "content": "Newly Updated",
35         "ticket_id": 1
36     }
37     r = requests.put(url = url, json = params)
38     global updated_message
39     updated_message = r.json()
40     responseTickets.append(updated_message)
41     assert r.status_code == 200 and updated_message["content"] == params["content"]
42
43
```

Pytest Screenshot

The above given image shows the Pytest implementation for **Message API** model and the result help us convince us in choosing the right way to code through Test-Based-development (TBD).

Test codes for all the 4 CRUD = Create Read Update and Delete operations is implemented as shown above.

The Tests have been run on these method api calls and the output is verified as shown below.

```

def test_get_messages_in_ticket():
    url = 'http://localhost:8080/api/ticket/1/message'
    r = requests.get(url = url)
    data = r.json()
    assert r.status_code == 200 and data == responseTickets

def test_delete_message():
    global newly_created_message
    url = 'http://localhost:8080/api/ticket/1/message/' + str(newly_created_message["message_id"])
    r = requests.delete(url = url)
    assert r.status_code == 200

```

```

$ pytest ./tests
===== test session starts =====
platform win32 -- Python 3.9.12, pytest-7.1.2, pluggy-1.0.0
rootdir: C:\Users\yuvar\OneDrive\Desktop\SE Project\soft-engg-project-jan-2023-group-8\src
plugins: anyio-3.5.0
collected 5 items

tests\test_messageAPI.py ..... [100%]

===== 5 passed in 12.78s =====

```