

## Testcase 1:

Scenario	Action	Expected
Verify that a new user is able to create a playlist	<ol style="list-style-type: none"> <li>1. Enter a username (ex. "Datta")</li> <li>2. Enter Initial Memory capacity (ex.3)</li> <li>3. Enter a song name and hit enter.</li> <li>4. Repeat step 3 for 2 times(Ex. S1,S2,S3)</li> <li>5. Type 'exit' to see the playlist</li> </ol>	User's Playlist should be displayed with message "Recent Playlist of Datta is ['S1', 'S2', 'S3']"

## Output:

The screenshot shows the PyCharm IDE with the following components:

- Project View:** Shows the project structure with files like `main.py`, `Login.py`, `confest.py`, `test_project.py`, `code.py`, `Body.py`, and `URLS.py`. The `testvagrant_code` directory is expanded, showing `Allusers_playlist.txt` and `code.py`.
- Code Editor:** Displays the `code.py` file with the following code:
 

```

45 username = input("Enter Username ")
46 Output = User(username) # Invoking of Function
47
48 print("Recent Playlist of " + username + " is", Output[username]['Playlist'])
49 with open('Allusers_playlist.txt', 'w') as m:
50     m.write(json.dumps(Output)) # Store the data after execution into Allusers_playlist.txt
51
with open("Allusers_playlist.tx...
```
- Run Console:** Shows the execution output:
 

```

C:\Users\DHUDDAR\anaconda3\envs\PrimaveraRestAPI\python.exe C:/Users/DHUDDAR/PycharmProjects/PrimaveraRestAPI/testvagrant_code/code.py
Enter Username Datta
Enter Initial memory capacity of Datta user 3
Enter Song you are listening (Type 'exit' to see your recent playlist) S1
Enter Song you are listening (Type 'exit' to see your recent playlist) S2
Enter Song you are listening (Type 'exit' to see your recent playlist) S3
Enter Song you are listening (Type 'exit' to see your recent playlist) exit
Recent Playlist of Datta is ['S1', 'S2', 'S3']

Process finished with exit code 0
```
- Status Bar:** Shows the file encoding as UTF-8, 4 spaces, and Python 3.10 (PrimaveraRestAPI).

## Testcase 2:

Scenario	Action	Expected
Verify that an existing is able to edit the playlist	<ol style="list-style-type: none"><li>1. Enter the same username as created above "Datta"</li><li>2. Enter a song name (Ex. S4) and hit enter</li><li>3. Type "exit"</li><li>4. Verify that as the "Initial Memory capacity" of Datta user is 3,least recently played song (i.e. S1 is removed and S4 is appended)</li></ol>	User's Playlist should be displayed with message "Recent Playlist of Datta is ['S2', 'S3','S4']"

## Output:

```
PrimaveraRestAPI - code.py
Project: PrimaveraRestAPI
testvagrant_code
  Allusers_playlist.txt
  code.py
  Utilities
  main.py
  External Libraries
  Scratches and Consoles

main.py 45
Login.py 46
confest.py 47
test_project.py 48
code.py 49
Body.py 50
URLS.py 51

username = input("Enter Username ")
Output = User(username) # Invoking of Function

print("Recent Playlist of " + username + " is", Output[username]['Playlist'])
with open('Allusers_playlist.txt', 'w') as m:
    m.write(json.dumps(Output)) # Store the data after execution into Allusers_playlist.txt

Run: code
C:\Users\DHUDDAR\anaconda3\envs\PrimaveraRestAPI\python.exe C:/Users/DHUDDAR/PycharmProjects/PrimaveraRestAPI/testvagrant_code/code.py
Enter Username Datta
Initial capacity of Dattauser is 3
Enter Song you are listening (Type 'exit' to see your recent playlist) S4
Enter Song you are listening (Type 'exit' to see your recent playlist) exit
Recent Playlist of Datta is ['S2', 'S3', 'S4']

Process finished with exit code 0
```

### Testcase 3:

Scenario	Action	Expected
Verify that the "Initial memory capacity" is asked only for new users and for existing user initially saved "Initial memory capacity" is displayed	1a. Enter a new username(Ex. Prasad) 2a. User should be asked to enter "Initial memory capacity" 1b. Enter an existing username(Ex. Datta) 2b. User should be shown saved "Initial memory capacity"	2a. "Enter Initial memory capacity of Prasad user " should be displayed 2b. "Initial capacity of Datta user is 3" should be displayed

### Output 2a :

The screenshot shows the PyCharm IDE with the file `code.py` open. The code defines a function `User()` that prompts for a username and initial memory capacity. The console output shows the execution for a new user 'Prasad':

```

C:\Users\DHUDDAR\anaconda3\envs\PrimaveraRestAPI\python.exe C:/Users/DHUDDAR/PycharmProjects/PrimaveraRestAPI/testvagrant_code/code.py
Enter Username Prasad
Enter Initial memory capacity of Prasad user 4
Enter Song you are listening (Type 'exit' to see your recent playlist) |
  
```

The code in `code.py` is as follows:

```

49
21 Initial_capacity = int(
22     input("Enter Initial memory capacity of " + username + " user ")) # Executes only for new us
23
24 else:
25     print("Initial capacity of " + username + " user is ", AllPlaylist[username]["Index"])
26     Initial_capacity = AllPlaylist[username]["Index"] # stores the memory capacity of the new user
27
28 while True:
29     songname = str(input("Enter Song you are listening (Type 'exit' to see your recent playlist) "))
30     if songname == "exit":
31         break # Breaks when user enters "eit"
32     if len(Songs_List) < Initial_capacity:
33         Songs_List.append(
34             songname) # Appends the current playing song to list if len(list)is less than Memory cap
35     else
  
```

### Output 2b:

The screenshot shows the PyCharm IDE with the file `code.py` open. The code defines a function `User()` that prompts for a username and initial memory capacity. The console output shows the execution for an existing user 'Datta':

```

C:\Users\DHUDDAR\anaconda3\envs\PrimaveraRestAPI\python.exe C:/Users/DHUDDAR/PycharmProjects/PrimaveraRestAPI/testvagrant_code/code.py
Enter Username Datta
Initial capacity of Dattauser is 3
Enter Song you are listening (Type 'exit' to see your recent playlist) S4
Enter Song you are listening (Type 'exit' to see your recent playlist) exit
Recent Playlist of Datta is ['S2', 'S3', 'S4']
Process finished with exit code 0
  
```

The code in `code.py` is the same as in the previous screenshot:

```

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21 Initial_capacity = int(
22     input("Enter Initial memory capacity of " + username + " user ")) # Executes only for new us
23
24 else:
25     print("Initial capacity of " + username + " user is ", AllPlaylist[username]["Index"])
26     Initial_capacity = AllPlaylist[username]["Index"] # stores the memory capacity of the new user
27
28 while True:
29     songname = str(input("Enter Song you are listening (Type 'exit' to see your recent playlist) "))
30     if songname == "exit":
31         break # Breaks when user enters "eit"
32     if len(Songs_List) < Initial_capacity:
33         Songs_List.append(
34             songname) # Appends the current playing song to list if len(list)is less than Memory cap
35     else
  
```

#### Testcase 4:

Scenario	Action	Expected
Verify that the "ValueError" is displayed if invalid data is entered for "Initial Memory capacity"	<ol style="list-style-type: none"> <li>1. Enter a new username.</li> <li>2. Enter invalid character (Ex. 's') in Initial memory capacity</li> </ol>	Verify that the program terminates with ValueError

#### Output:

```

PrimaveraRestAPI - code.py
Project: PrimaveraRestAPI
testvagrant_code > code.py
21 Initial_capacity = int(
22     input("Enter Initial memory capacity of " + username + " user ")) # Executes only for new us
23
24 else:
25     print("Initial capacity of " + username + " user is ", AllPlaylist[username]["Index"])
26     Initial_capacity = AllPlaylist[username]["Index"] # stores the memory capacity of the new user
27
28 while True:
29     songname = str(input("Enter Song you are listening (Type 'exit' to see your recent playlist) "))
30     if songname == "exit":
31         break # Breaks when user enters "eit"
32     if len(Songs_List) < Initial_capacity:
33         Songs_List.append(
34             songname) # Appends the current playing song to list if len(list) is less than Memory cap
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36 User()
37 else:
38     pass
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## Testcase 5:

Scenario	Action	Expected
Verify that a file with the name "Allusers_playlist.txt" is created after first execution	1. Answer all the questions and once the playlist is visible, verify that a new file "Allusers_playlist.txt" is generated in the same directory	"Allusers_playlist.txt" should be visible

## Output:

### Before Code run

```

21 Initial_capacity = int(
22     input("Enter Initial memory capacity of " + username + " user ")) # Executes only for new us
23
24 else:
25     print("Initial capacity of " + username + " user is ", AllPlaylist[username]["Index"])
26     Initial_capacity = AllPlaylist[username]["Index"] # stores the memory capacity of the new user
27
28 while True:
29     songname = str(input("Enter Song you are listening (Type 'exit' to see your recent playlist) "))
30     if songname == "exit":
31         break # Breaks when user enters "eit"
32     if len(Songs_List) < Initial_capacity:
33         Songs_List.append(
34             songname) # Appends the current playing song to list if len(list) is less than Memory cap

```

Run: code x

C:\Users\DHUDDAR\anaconda3\envs\PrimaveraRestAPI\python.exe C:/Users/DHUDDAR/PycharmProjects/PrimaveraRestAPI/testvagrant\_code/code.py

Enter Username **Prasad**

Enter Initial memory capacity of Prasad user **5**

Traceback (most recent call last):

File "C:\Users\DHUDDAR\PycharmProjects\PrimaveraRestAPI\testvagrant\_code\code.py", line 46, in <module>

Output = User(username) # Invoking of Function

File "C:\Users\DHUDDAR\PycharmProjects\PrimaveraRestAPI\testvagrant\_code\code.py", line 21, in User

Initial\_capacity = int(

### After Code Run for first time.

```

21 Initial_capacity = int(
22     input("Enter Initial memory capacity of " + username + " user ")) # Executes only for new us
23
24 else:
25     print("Initial capacity of " + username + " user is ", AllPlaylist[username]["Index"])
26     Initial_capacity = AllPlaylist[username]["Index"] # stores the memory capacity of the new user
27
28 while True:
29     songname = str(input("Enter Song you are listening (Type 'exit' to see your recent playlist) "))
30     if songname == "exit":
31         break # Breaks when user enters "eit"
32     if len(Songs_List) < Initial_capacity:
33         Songs_List.append(
34             songname) # Appends the current playing song to list if len(list) is less than Memory cap

```

Run: code x

Enter Initial memory capacity of Datta User **5**

Enter Song you are listening (Type 'exit' to see your recent playlist) **S**

Enter Song you are listening (Type 'exit' to see your recent playlist) **f**

Enter Song you are listening (Type 'exit' to see your recent playlist) **exit**

Recent Playlist of Datta is ['S', 'f']

Process finished with exit code 0