**Backend test cases**

1. User Registration

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case** | **Test Input** | **Expected Result** | **Test Result** | **Pass/Fail** |
| Create User Account | {  'username': 'test\_user',  'first\_name' : 'test',  'last\_name' : 'user',  'mobile\_number' : '+6512345678',  'email': 'test\_user@email.com',  'password1': 'password1',  'password2': 'password1',  } | Code: 200  Status: Success | Code: 200  Status: Success | **PASS** |
| Create User Account with duplicate details | {  'username': 'test\_user',  'first\_name' : 'test',  'last\_name' : 'user',  'mobile\_number' : '+6512345678',  'email': 'test\_user@email.com',  'password1': 'password1',  'password2': 'password1',  } | Code: 400  Status: Error | Code: 400  Status: Error | **PASS** |

1. User Login

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Login with valid credentials | {  'username': 'test\_user',  'password': 'password1'  } | Code: 200  Status: Success | Code: 200  Status: Success | **PASS** |
| Login with invalid credentials | {  'username': 'admins',  'password': 'password122'  } | Code: 400  Status: Error | Code: 400  Status: Error | **PASS** |

1. Study Areas

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Distance from study area | {  ‘lat’: study\_area.lat,  'lng': study\_area.lng  } | Code: 200  Distance: 0.0 | Code: 200  Distance: 0.0 | **PASS** |
| Create study area booking | {  'date' : datetime.date(2024, 4, 7),  'start\_time' : datetime.time(12,0,0),  'end\_time' : datetime.time(13,0,0),  'study\_area' : 1,  'user' : user\_data  } | Code: 201  Status: Success | Code: 201  Status: Success | **PASS** |
| Create invalid study area booking | {  'date' : datetime.date(2024, 4, 7),  'start\_time' : datetime.time(5,0,0),  'end\_time' : datetime.time(6,0,0),  'study\_area' : 1,  'user' : user\_data  } | Code: 400  Status: Success | Code: 400  Status: Success | **PASS** |
| View study area booking | {  'pk' : 1  } | Code: 200  Status: Success | Code: 200  Status: Success | **PASS** |
| Delete study area booking | {  'pk' : 1  } | Code: 200  Status: Success | Code: 200  Status: Success | **PASS** |

1. Store and Cart

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Insert products to cart | {  'product' : 1,  'quantity' : 1  }  {  'product' : 2,  'quantity' : 3  } | Code: 200  Status: Success | Code: 200  Status: Success | **PASS** |
| Insert invalid product to cart | {  'product' : 3,  'quantity' : 2  } | Code: 400  Status: Error | Code: 400  Status: Error | **PASS** |
| Update product in cart | {  'product' : 2,  'quantity' : 1  } | Code: 200  Status: Success | Code: 200  Status: Success | **PASS** |
| Delete product from cart | {  'product' : 1,  'quantity' : 0  } | Code: 200  Status: Success | Code: 200  Status: Success | **PASS** |
| Checkout from cart | {  'address' : '66 Nanyang Crescent',  'postal\_code' : 636960  } | Code: 200  Status: Success | Code: 200  Status: Success | **PASS** |

1. BuddyAI

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Ask BuddyAI while logged in | {  ‘question’ : ‘what is 1 + 1?’  } | Code: 200  Status: Success | Code: 200  Status: Success | **PASS** |
| Ask BuddyAI while logged out | {  ‘question’ : ‘what is 1 + 1?’  } | Code: 401  Status: Error | Code: 401  Status: Error | **PASS** |