Test cases for E-commerce application api[Api Testing]

Test_Case_Id	Test Description	Method	Test data	Uri	Authentication(In header)	Request body	Response body	Status	Comment
				Sign-up Api					

TC 01	Verify successful sign-up message with proper data	POST	"first_name":"Mihir",
			"last_name":"Agrawal",
			"email":"agrawal.12@gmail.com",
			"password":"mihir123",
			"phone":"7083148976"
				http://192.168.1.44:7654/users/signup		{
						"first_name":"Mihir",
						"last_name":"Agrawal",
						"email":"agrawal.12@gmail.com",
						"password":"mihir123",
						"phone":"7083148976"
						}
							"Successfullly signed in"
							
							Status code -201
								PASS	

TC 02	Verify error message when a required field is missing.	POST	"first_name":"Mihir",
			"last_name":"",
			"email":"agrawal.12@gmail.com",
			"password":"mihir123",
			"phone":"7083148976"
				http://192.168.1.44:7654/users/signup		{
						"first_name":"Mihir",
						"last_name":"",
						"email":"agrawal.12@gmail.com",
						"password":"mihir123",
						"phone":"7083148976"
						}
							{
							"error": "Key: 'User.Last_Name' Error:Field validation for 'Last_Name' failed on the 'min' tag"
							}
							
							Status code-400
								Fail	Can be given a proper error message as-last name is required

TC 03	Verify error message when an duplicate data is provided.	POST	"first_name":"Mihir",
			"last_name":"Agrawal",
			"email":"agrawal.12@gmail.com",
			"password":"mihir123",
			"phone":"7083148976"
				http://192.168.1.44:7654/users/signup		{
						"first_name":"Mihir",
						"last_name":"Agrawal",
						"email":"agrawal.12@gmail.com",
						"password":"mihir123",
						"phone":"7083148976"
						}
							{
							"error": "user already exists"
							}
							
							Status code-400
								PASS	

				Login Api					

TC 04	Verify successful login and response details.	POST	{
			"email":"mihiragrawal@gmail.com",
			"password":"mihir123"
			}
				http://192.168.1.44:7654/users/login		{
						"email":"mihiragrawal@gmail.com",
						"password":"mihir123"
						}
							The response body contains the expected customer details:
							
							{ "_id": "64759d5551dc973cc84d5f47",
							"first_name": "Mihir_",
							"last_name": "Agrawall",
							"password":
							"$2a$14$TLeF4Z1eAKS9OlZjqJNLdeOSN7Yus.
							VSlcDeys2tLJAh4F/ENa0Hsq",
							"email": "mihiragrawal@gmail.com",
							"phone": "708314676",
							"token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.
							eyJFbWFpbCI6Im1paGlyYWdyYXdhbEBnbWFpbC5jb20iL
							CJGaXJzdE5hbWUiOiJNaWhpcl8iLCJMYXN0TmFtZSI6Ik
							FncmF3YWxsIiwiVWlkIjoiNjQ3NTlkNTU1MWRjQTczY2M
							4NGQ1ZjQ3IiwiZXhwIjoxNjg1NTE2MDI1f1Q.
							SphFC6VYAnXL-
							10U_4rMYWwQ6W19pdEx6qrZAkz18dU",
							"refresh_token":
							"eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.
							eyJFbWFpbCI6IiIsIkZpcnN0TmFtZSI6IiIsIkxhc3ROYW1Ij
							oiIiwiVWlkIjoiIiwiZXhwIjoxNjg2MDM0NDI1f1Q.
							jMcc3j2mtBV7X2cH1t0VjQu5fqrIyO5B1wrdIBBNCoY",
							"created_at": "2023-05-30T06:53:09Z",
							"updated_at": "2023-05-30T06:53:45Z",
							"user_id": "64759d5551dc973cc84d5f47",
							"usercart": [],
							"address": [],
							"orders": []
							}
							
							Status code -302
								FAIL	

TC 05	Error Handling for Invalid login Credentials	POST	{
			"email":"mihiragrawal@gmail.com",
			"password":"mihi3"
			}
				http://192.168.1.44:7654/users/login		{
						"email":"mihiragrawal@gmail.com",
						"password":"mihir123"
						}
							{
							"error": "Login or Password is incorrect"
							}
							
							Status code -500
								FAIL	Status code should be 401

TC 06	Error Handling for Missing Required Fields/blank feild for login	POST	{
			"email":"",
			"password":""
			}
				http://192.168.1.44:7654/users/login		{
						"email":"",
						"password":""
						}
							{
							"error": "Login or Password is incorrect"
							}
							
							Status code -500
								PASS	

				Add Address Api					

TC 07	Verify that the API successfully adds an address when valid consumer ID and address details are provided.	POST	Consumer id : 6465d8a9a4513a56389d8571
			
			"house": "M-Agile",
			"street": "Pan Card Club Road",
			"city": "washington",
			"pincode": "332423432"
				http://localhost:7654/addaddress?id=6465d8a9a4513a56389d8571	token:eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.
					eyJFbWFpbCI6Im1paGlyYWdyYXdhbEBnbWFpbC5jb2
					0iLCJGaXJzdE5hbWUiOiJNaWhpcl8iLCJMYXN0TmFt
					ZSI6IkFncmF3YWxsIiwiVWlkIjoiNjQ3NTlkNTU1MWRjO
					TczY2M4NGQ1ZjQ3IiwiZXhwIjoxNjg1NTE2MDI1f1Q.
					SphFC6VYAnXL-
					10U_4rMYWwQ6W19pdEx6qrZAkz18dU
						{
						"house": "M-Agile",
						"street": "Pan Card Club Road",
						"city": "washington",
						"pincode": "332423432"
						}
							"Successfully added address"
							
							status code :200 ok
								PASS	

TC 08	Verify the API response when an invalid consumer ID is provided.	POST	Consumer id : 6465d8a9a4
			
			"house": "M-Agile",
			"street": "Pan Card Club Road",
			"city": "washington",
			"pincode": "332423432"
				http://localhost:7654/addaddress?id=6465d8a9a4	token:eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.
					eyJFbWFpbCI6Im1paGlyYWdyYXdhbEBnbWFpbC5jb2
					0iLCJGaXJzdE5hbWUiOiJNaWhpcl8iLCJMYXN0TmFt
					ZSI6IkFncmF3YWxsIiwiVWlkIjoiNjQ3NTlkNTU1MWRjO
					TczY2M4NGQ1ZjQ3IiwiZXhwIjoxNjg1NTE2MDI1f1Q.
					SphFC6VYAnXL-
					10U_4rMYWwQ6W19pdEx6qrZAkz18dU
						{
						"house": "M-Agile",
						"street": "Pan Card Club Road",
						"city": "washington",
						"pincode": "332423432"
						}
							"the provided hex string is not a valid ObjectID"
							
							status code : 500
								FAIL	Should return proper error message "invalid consumer id"
									
									status code :404

TC 09	Test if the API handles invalid request bodies properly.	POST	Consumer id : 6465d8a9a4513a56389d8571
			
			"house": "M-Agile",
			"street": "Pan Card Club Road",
			"city": "washington",
			"pincode": "332423432
			"country":"india"
				http://localhost:7654/addaddress?id=6465d8a9a4513a56389d8571	token:eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.
					eyJFbWFpbCI6Im1paGlyYWdyYXdhbEBnbWFpbC5jb2
					0iLCJGaXJzdE5hbWUiOiJNaWhpcl8iLCJMYXN0TmFt
					ZSI6IkFncmF3YWxsIiwiVWlkIjoiNjQ3NTlkNTU1MWRjO
					TczY2M4NGQ1ZjQ3IiwiZXhwIjoxNjg1NTE2MDI1f1Q.
					SphFC6VYAnXL-
					10U_4rMYWwQ6W19pdEx6qrZAkz18dU
						{
						"house": "M-Agile",
						"street": "Pan Card Club Road",
						"city": "washington",
						"pincode": "332423432"
						"country":"india"
						}
							"Successfully added address"
							
							status code :200 ok
								FAIL	Should not accept invalid body

TC 10	Verify adds an address api when valid consumer ID is passed and address feilds are kept blank	POST	Consumer id : 6465d8a9a4513a56389d8571
			
			"house": "",
			"street": "Pan Card Club Road",
			"city": "",
			"pincode": ""
				http://localhost:7654/addaddress?id=6465d8a9a4513a56389d8571	token:eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.
					eyJFbWFpbCI6Im1paGlyYWdyYXdhbEBnbWFpbC5jb2
					0iLCJGaXJzdE5hbWUiOiJNaWhpcl8iLCJMYXN0TmFt
					ZSI6IkFncmF3YWxsIiwiVWlkIjoiNjQ3NTlkNTU1MWRjO
					TczY2M4NGQ1ZjQ3IiwiZXhwIjoxNjg1NTE2MDI1f1Q.
					SphFC6VYAnXL-
					10U_4rMYWwQ6W19pdEx6qrZAkz18dU
						{
						"house": "",
						"street": "Pan Card Club Road",
						"city": "",
						"pincode""
						}
							"Successfully added address"
							
							status code :200 ok
								FAIL	Should not accept blank address/Empty feilds error message-"Fields are required"
									
									Status code --400 bad request

TC 11	Verify adding more than two address for a consumer	POST	Consumer id : 6465d8a9a4513a56389d8571 "house": "M-Agile", "street": "Pan Card Club Road", "city": "washington", "pincode": "332423432"	http://localhost:7654/addaddress?id=6465d8a9a4513a56389d8571	token:eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJFbWFpbCI6Im1paGlyYWdyYXdhbEBnbWFpbC5jb20iLCJGaXJzdE5hbWUiOiJNaWhpcl8iLCJMYXN0TmFtZSI6IkFncmF3YWxsIiwiVWlkIjoiNjQ3NTlkNTU1MWRjOTczY2M4NGQ1ZjQ3IiwiZXhwIjoxNjg1NTE2MDI1fQ.SphFC6VYAnXL-10U_4rMYWwQ6W19pdEx6qrZAkz18dU	"house": "M-Agile", "street": "Pan Card Club Road", "city": "washington", "pincode": "332423432"	Message:"Not Allowed" Status code	PASS	
				Delete Address Api					
TC 12	Verify that the API successfully deletes the address when a valid consumer ID is provided.	DELETE	Consumer id : 6465d8a9a4513a56389d8571	http://localhost:7654/deleteaddresses?id=6465d8a9a4513a56389d8571	token:eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJFbWFpbCI6Im1paGlyYWdyYXdhbEBnbWFpbC5jb20iLCJGaXJzdE5hbWUiOiJNaWhpcl8iLCJMYXN0TmFtZSI6IkFncmF3YWxsIiwiVWlkIjoiNjQ3NTlkNTU1MWRjOTczY2M4NGQ1ZjQ3IiwiZXhwIjoxNjg1NTE2MDI1fQ.SphFC6VYAnXL-10U_4rMYWwQ6W19pdEx6qrZAkz18dU	-	"Successfully deleted addresses"	PASS	
TC 13	Check if the API returns an appropriate error message or status code when an invalid or non-existent consumer ID is provided.	DELETE	Consumer id : 6465d8a9a4513a56389d8571	http://localhost:7654/deleteaddresses?id=6465d8a9a4513a563	token:eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJFbWFpbCI6Im1paGlyYWdyYXdhbEBnbWFpbC5jb20iLCJGaXJzdE5hbWUiOiJNaWhpcl8iLCJMYXN0TmFtZSI6IkFncmF3YWxsIiwiVWlkIjoiNjQ3NTlkNTU1MWRjOTczY2M4NGQ1ZjQ3IiwiZXhwIjoxNjg1NTE2MDI1fQ.SphFC6VYAnXL-10U_4rMYWwQ6W19pdEx6qrZAkz18dU	-	"Internal Server Error" status code : 500	FAIL	Should return valid error message "invalid consumer id" status code should be 404
				Search product api					

TC 14	Verify that the API returns the expected product when searching for a valid product name.	GET	product-name:Sneakers	http://localhost:7654/users/search?name=Sneakers	token:eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJFbWFpbCI6Im1paGlyYWdyYXdhbEBnbWFpbC5jb20iLCJGaXJzdE5hbWUiOiJNaWhpcl8iLCJMYXN0TmFtZSI6IkFncmF3YWxsIiwiVWlkIjoiNjQ3NTlkNTU1MWRjOTczY2M4NGQ1ZjQ3IiwiZXhwIjoxNjg1NTE2MDI1fQ.SphFC6VYAnXL-10U_4rMYWwQ6W19pdEx6qrZAkz18dU	-	[
							{
							"Product_ID": "6465d9f1a4513a56389d8572",
							"product_name": "Sneakers",
							"price": 2500,
							"rating": 10,
							"image": "alienware.jpg"
							},
							{
							"Product_ID": "647845a7ae311c6eca772ac9",
							"product_name": "Sneakers 2",
							"price": 2500,
							"rating": 10,
							"image": "alienware.jpg"
							},
							{
							"Product_ID": "647845acae311c6eca772aca",
							"product_name": "Sneakers 4",
							"price": 2500,
							"rating": 10,
							"image": "alienware.jpg"
							}
							]
								PASS	

TC 15	Check if the API response contains the relevant product details such as name, price, etc.	GET	product-name:Sneakers	http://localhost:7654/users/search?name=bag	token:eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJFbWFpbCI6Im1paGlyYWdyYXdhbEBnbWFpbC5jb20iLCJGaXJzdE5hbWUiOiJNaWhpcl8iLCJMYXN0TmFtZSI6IkFncmF3YWxsIiwiVWlkIjoiNjQ3NTlkNTU1MWRjOTczY2M4NGQ1ZjQ3IiwiZXhwIjoxNjg1NTE2MDI1fQ.SphFC6VYAnXL-10U_4rMYWwQ6W19pdEx6qrZAkz18dU	-	[
							{
							"Product_ID": "6465d9f1a4513a56389d8572",
							"product_name": "Sneakers",
							"price": 2500,
							"rating": 10,
							"image": "alienware.jpg"
							},
							{
							"Product_ID": "647845a7ae311c6eca772ac9",
							"product_name": "Sneakers 2",
							"price": 2500,
							"rating": 10,
							"image": "alienware.jpg"
							},
							{
							"Product_ID": "647845acae311c6eca772aca",
							"product_name": "Sneakers 4",
							"price": 2500,
							"rating": 10,
							"image": "alienware.jpg"
							}
							]
								PASS	

TC 16	Test the API's response when searching for a non-existent product name.	GET	product-name:vgvj	http://localhost:7654/users/search?name=vgvj	token:eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJFbWFpbCI6Im1paGlyYWdyYXdhbEBnbWFpbC5jb20iLCJGaXJzdE5hbWUiOiJNaWhpcl8iLCJMYXN0TmFtZSI6IkFncmF3YWxsIiwiVWlkIjoiNjQ3NTlkNTU1MWRjOTczY2M4NGQ1ZjQ3IiwiZXhwIjoxNjg1NTE2MDI1fQ.SphFC6VYAnXL-10U_4rMYWwQ6W19pdEx6qrZAkz18dU		null	PASS	Should show proper error message "No such product exist"

TC 17	Verify how the API handles invalid or empty search parameter	GET	product-name:	http://localhost:7654/users/search?name=	token:eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJFbWFpbCI6Im1paGlyYWdyYXdhbEBnbWFpbC5jb20iLCJGaXJzdE5hbWUiOiJNaWhpcl8iLCJMYXN0TmFtZSI6IkFncmF3YWxsIiwiVWlkIjoiNjQ3NTlkNTU1MWRjOTczY2M4NGQ1ZjQ3IiwiZXhwIjoxNjg1NTE2MDI1fQ.SphFC6VYAnXL-10U_4rMYWwQ6W19pdEx6qrZAkz18dU		{
							"error": "invalid search index"
							}
							
							Status code : 404 not found
								PASS	Can show message like "Not found"