

# TESTING

## 1. Test Cases Generation

	Criteria	Valid class	Invalid Class	Boundary condition
1.	Testing validity of User	Domain=="lnmiit.ac.in"	Domain=="gmail.com	None
2.	Testing validity of Password	Valid Password	Invalid Password	None
3.	Verifying JWT token	Valid	Invalid	Expiration time(24 hrs)
4.	Requesting equipment	Valid number of Equipment=1	Zero Number of Equipments	Overlapping Requests(FCFS)
5.	Acceptance and Rejection of Requests	Approved by Admin	Rejected by Admin	Expiry time( 1hr)
6.	Testing Request Logs	Shows the correct status of requests through mail	Wrong status is shown	None
7.	Check the status of equipment	Shows whether the equipment is damaged(red) or not damaged(green)	Other color than "red" or "green" appears	color="red" or color = "green"
8.	Updating quantity of equipment	Quantity is updated by the admin	Admin cannot update the quantity	Only admin can make the changes
9.	Access any other route different than defined routes	Route which user is on is defined	Route which user is on is not defined	None

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## White Box Testing

## 2. Result of test cases

	Criteria	Test Case	Expected Output	Actual Output
1.	Login With Valid Input	<a href="mailto:21ucs065@lnmiit.ac.in">21ucs065@lnmiit.ac.in</a> Valid Password	A JWT token is generated, set in a cookie, and a success message is returned with user data.	A JWT token is generated, set in a cookie, and a success message is returned with

				user data.
2.	Login with an Invalid Email	ananyat@gmail.com	The response contains an alert error message	The response contains an error message "Enter LNMIIT domain email only"
3.	Login with an invalid password	Userid : 21ucs065@lnmiit.ac.in Password: 1234567	The response contains an error message indicating to try again	The response contains an error message indicating "Wrong details"
4.	Logout	Call the logout endpoint	Ensure the JWT cookie is cleared, and comes back to the login page	Ensure the JWT cookie is cleared, and user data from local storage is deleted and comes back to the login page
5.	Valid Request for an equipment by user	No of equipment is > 0	Success message is shown	Request
6.	Conflict with Requests	The same type of equipment has been requested by multiple users at the same time	The response of anyone user is accepted and others are rejected	Person who requested earlier will be considered first for request accept;
7.	Request same type of equipment	By some glitch	The response message :	NONE

	multiple time		you cannot request more than 1 equipment of same type	
8.	Request booking without admin support	User manually took an equipment by permission of concerned authority	Able to get the equipment	NONE
9.	Request booking without admin support	User is not able to manually take an equipment without permission of concerned authority	Not able to get the equipment	NONE
10.	Request booking with admin support	User request through site SIMS	Request accepted or rejected	User gets an email about the status of equipment request
11.	User cannot access admin functionalities	User try to access route <a href="http://localhost:3000/admin">http://localhost:3000/admin</a>	User should not be able to access admin functionalities	Error page shows up with the message : "You are not allowed to access this page " and a button appears "click here to go back"
12.	User clicks the error page button	User is logged in	User should go back to home page	User is redirected to home page.
13.	User clicks the error page button	User is not logged in	User should go back to login page	User is redirected to login page.

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## Black Box Testing

### 3. Result of test cases

	Criteria	Test Case	Expected Output	Actual Output
1.	Submitted Request shown in Request logs (for admin only)	Request is submitted	Request is shown in the Request log with other details.	Request is shown in the request log with timings and user email and name of equipment
2.	Accepted by any role shown in Request logs	Request is accepted by admin only	Status of equipment requested by user is changed to accepted	Shows approved written mail
3.	Logout button working	Click the logout button	The person should be logged out .	The person is logged out and the sign-in window reappears.
4.	Home page shows Sports available in Institute	Go to the home page	List of sports appear	List of sports through carousel is shown
5.	Reserve button working for User	Click the Reserve Button	Item will be reserved	Success alert "Request successfully submitted"

6.	Reject button working for Admin	Click the reject button	The request should be rejected.	A mail is sent to user that request has been rejected
7.	Accept button working for admin	Click the accept button	The request should be approved.	A mail is sent to user that request has been accepted
8.	Incrementing the equipment quantity by admin	Click the "+" button	Quantity is increased .	Page is refreshed
9.	Decrementing the equipment quantity by admin	Click the "-" button	Quantity is decreased.	Page is refreshed
10.	Add new item in a category by admin	Click the add item button	Item will be added to the sport	A form appears containing sport name, quantity, equipment name, equipment image
11.	Damage icon for equipment	Shows red color	Equipment is damaged	User cannot reserve that equipment
12.	Damage icon for equipment	Shows green color	Equipment is not damaged	User can reserve that equipment