



**School of Computing**

**SRM IST, Kattankulathur – 603 203**

**Course Code: 18CSC206J**

**Course Name: Software Engineering and Project Management**

<b>Experiment No</b>	11
<b>Title of Experiment</b>	Test Cases
<b>Name of the candidate</b>	<b>KUMARI HARSHITA</b>
<b>Team Members</b>	<b>NANDAVARDHAN R, MAHESH REDDY, KUMARI HARSHITA, BHANU PRAKASH</b>
<b>Register Number</b>	<b>RA21110280100</b>
<b>Date of Experiment</b>	

**Mark Split Up**

<b>S. No</b>	<b>Description</b>	<b>Maximum Mark</b>	<b>Mark Obtained</b>
1	Exercise	5	
2	Viva	5	
<b>Total</b>		<b>10</b>	

**Staff Signature with date**

**Aim**

To develop the test cases manual for the “your energy our solution”

**Team Members:**

S No	Register No	Name	Role
1	RA2111028010043	Nandavardhan	Rep
2	RA2111028010060	Harshita	Member
3	RA2111028010041	Bhanu Prakash	Member
4	RA2111028010056	Mahesh Reddy	Member

<Utilize the templates below and incorporate the project’s test cases - Manual Test case to be written for at least one module >

## Functional Test Cases

Test ID (#)	Test Scenario	Test Case	Execution Steps	Expected Outcome	Actual Outcome	Status	Remarks
1	Data validation	Check data validation	Open the application and navigate to the data input page	Valid input is accepted and processed without errors	Valid input is accepted and processed without errors	Pass	success

2	Verify that the all the interfaces and API are functioning correctly	Check integration	Open the application and navigate to the Graph page	Open the application and navigate to the Graph page	The correct result display on the screen	pass	success
3	Verify that the system meets the performance requirement	Check performance	Run the load testing tools and set up expected	Give the best performance	Give the best performance	pass	success

## Non-Functional Test Cases

Test ID (#)	Test Scenario	Test Case	Execution Steps	Expected Outcome	Actual Outcome	Status	Remarks
1	Performance testing	Verify the system performance under the different load condition	Simulate the different load conditions	Handle the load condition without system failure	Response time is measured and recorded	pass/fail based on the response time	success
2	Security testing	Verify the system's security features	Test for unauthorized access to the system/ pen testing	To protect the data from the unauthorized access	Security vulnerability	pass/fail based on the number of the security vulnerability found	success
3	Usability testing	Verify the system usability	Test for the user friendly intuitive design	System should be easy to use and	Usability issues, if any, identified and reported	pass/fail based on the ease of use and accessibility for	success

				navigate		all the users	
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Result:

Thus, the test case manual has been created for the “your energy our solution”