

Batch:D2 Roll No: 16010122323

Exp No: 5

Title: Identify the types of Tests needed in mini project & process of Deployment.

Objective: 1. To understand the testing process of the project.
2. To understand & explore the GITHUB interface.

Expected Outcome of Experiment:

Course Outcome	After successful completion of the course students should be able to
CO 4	Implement and test the design as per mentioned specifications.

Books/ Journals/ Websites referred:

- 1.
- 2.
- 3.

Introduction:

Describe the need of this stage in project

In the To-Do List application project, the implementation process is indispensable for transforming conceptual solutions into tangible features. It's the stage where the app's functionalities, designed to address task overload, are developed and integrated. Through meticulous coding, testing, and iteration, the app's user interface, task management algorithms are refined to ensure usability and effectiveness. Implementation bridges the gap between vision and reality, aligning the app with user needs and preferences. It's essential for delivering a high-quality product that empowers users to prioritize tasks, manage their workload efficiently.

Title of Mini Project: To-do List

Team Members:

1. Kartik Ambupe- 16010122318

2. Jiya Trivedi 16010122321

3. Vedansh Savla 16010122323

Testing of User interfaces :

Test plan: Write 5 to 6 test cases

Test case	Description	Intended result	Actual result	Completed by
Front-end Design	To have a check if the webpage designed is as same as the design created	design had to be coded using react.js	The webpage resembled the design and had a very similar look	Kartik
Login and register validation	To check if mail entered while login are in a proper format or not. (eg. abc@gmail.com)	The system should throw error if the mail format is not correct and user is successfully registered	Validated	Vedansh
Authentication	To check and validate user and fetch unique tasks(if already a user) created by users	The user should all the tasks and functions done on task before on login	Successful fetching of data done	Jiya

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Operations on Tasks	To check all the functions work properly like creating, deleting, marking as completed, setting priorities, etc	All functions coded should properly	Successfully coded and implemented all functions	Jiya
Storing users along with their tasks	To check whether users and tasks are stored in the database	All the task should be updated and stored and users are also stored	Successful	Kartik

Responsibilities : Put X in the rows if the task is done by member

Task	Member1 Kartik	Member2 Jiya	Member 3 Vedansh
UI :			
Design	X	X	X
Coding	X	X	X
Database :			
Table design		X	
Query design	X		
Coding			
Program:		X	
Sales system			X
Management System	X		
Login System		X	

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Input Validation		X	
Testing :			
Testing approach	X		X
Test Cases		X	
Presentation:			
PowerPoint	X	X	X
Report			X

Major problems : Deployment problem:

As we were using firebase as our backend the sign in method didn't work on other hosting apps like Netlify and vercel and firebase hosting was a complex task also it was slow

Software used:

Code editor(VSCODE): We would need a code editor that supports syntax highlighting, code completion, and code formatting for multiple programming languages.

Web development framework: we would need a web development framework to develop the platform's front-end and back-end components.

Database management system: We would need a database management system to store and manage user data, project data, and other platform data.

Hardware used:

Web server: We would need a web server to host the online coding platform and serve user requests. Storage

device: We would need a storage device to store user data, project data, and other platform data.

Network infrastructure: We would need a reliable network infrastructure to ensure that users can access the platform quickly and reliably.

Backup and disaster recovery infrastructure: We would need backup and disaster recovery infrastructure to ensure that user data is secure and protected in case of a disaster or hardware failure

Tools: (Used for testing if any)

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Tool	Description

Post Lab Activities (with reference to your tool):

1. Why testing is needed in the project management life cycle?

Ans. Testing in the project management life cycle of a task management system not only helps in delivering a robust, efficient, and user-friendly product but also plays a key role in maintaining the software's integrity, utility, and competitiveness in the market.