



Learn Beyond

**KPR Institute of Engineering and Technology**

(Autonomous, NAAC "A")

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**Phone:** 0422-2635600**Web:** kpriet.ac.in**Social:** kpriet.ac.in/social**CS022****NBA Accredited**  
(CSE, ECE, EEE,  
MECH, CIVIL)**SOFTWARE TESTING-ITS NEED AND IMPORTANCE**

|                              |   |
|------------------------------|---|
| <b>Event No</b>              | CS022   |
| <b>Organizing Department</b> | Computer Science and Engineering  |
| <b>Associate Dept.   NSC</b> | Computer Science and Engineering  |
| <b>Date</b>                  | 13/10/2022  |
| <b>Time</b>                  | 09:00 AM to 10:00 AM  |
| <b>Event Type</b>            | Guest Lecture   |
| <b>Event Level</b>           | Dept. Level   |
| <b>Venue</b>                 | CSE classroom   |
| <b>Meeting Medium</b>        |   |
| <b>Meeting Link</b>          | <a href="http://meet.google.com/fcj-hfqx-zfi">http://meet.google.com/fcj-hfqx-zfi</a> |
| <b>Total Participants</b>    | 128   |
| <b>Faculty - Internal</b>    | 2   |
| <b>Students - Internal</b>   | 126   |

**Related SDG****Resource Persons**

| Sl | Type            | Name         | Designation       | Company      | Email                     | Phone      |
|----|-----------------|--------------|-------------------|--------------|---------------------------|------------|
| 1  | Resource Person | S Prem kumar | Senior consultant | Thoughtworks | kiruthika.jk@kpriet.ac.in | xxxxxxxxxx |

**Involved Staffs**

| Sl | Name                   | Role        |
|----|------------------------|-------------|
| 1  | Kiruthika J Kumarasamy | Coordinator |
| 2  | Vijayaganth V          | Coordinator |

**Outcome**

Software testing tools, Sample test case discussion

**Event Summary**

The software testing tools can be categorized, depending on the licensing (paid or commercial, open-source), technology usage, type of testing, and so on.

With the help of testing tools, we can improve our software performance, deliver a high-quality product, and reduce the duration of testing, which is spent on manual efforts.

The software testing tools can be divided into the following:

- Test management tool
- Bug tracking tool
- Automated testing tool
- Performance testing tool
- Cross-browser testing tool
- Integration testing tool
- Unit testing tool
- Mobile/android testing tool
- GUI testing tool
- Security testing tool

Test Automation Tools

- Tricentis Tosca. ...

- HP (Now Micro Focus) Unified Functional Testing (UFT) ...
- IBM Rational Functional Tester. ...
- Katalon Studio. ...
- Worksoft Certify

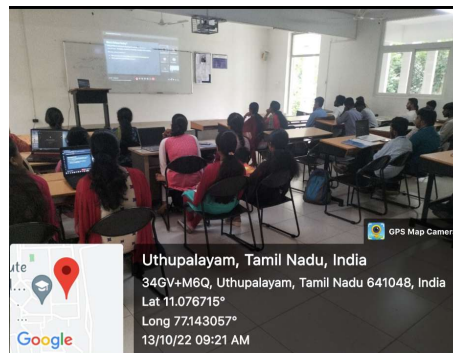
Test case gives detailed information about strategy, testing process, preconditions, and expected output. These are executed during the testing process to check whether the software application is performing the task for that it was developed or not.

Test case helps the tester in a defect reporting by linking defect with test case ID. Detailed test case documentation works as a proof guard for the testing team because if the developer missed something, then it can be caught during execution of these full-proof test cases.

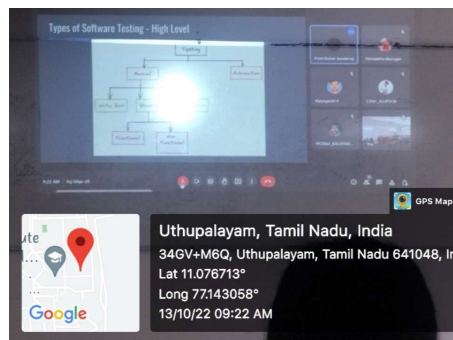
Black box testing is a technique of software testing which examines the functionality of software without peering into its internal structure or coding. is a specification of requirements that are stated by the customer.



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