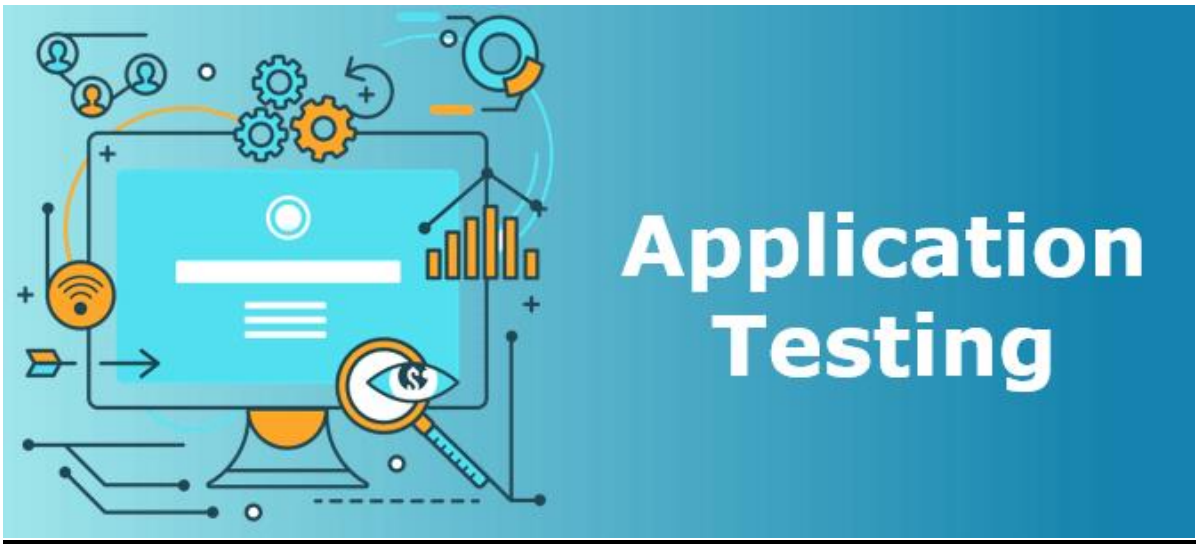
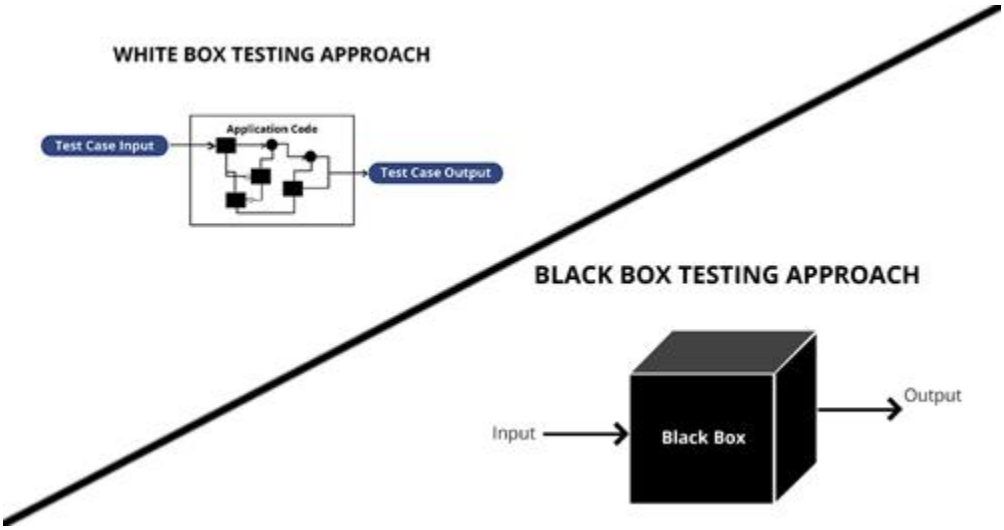


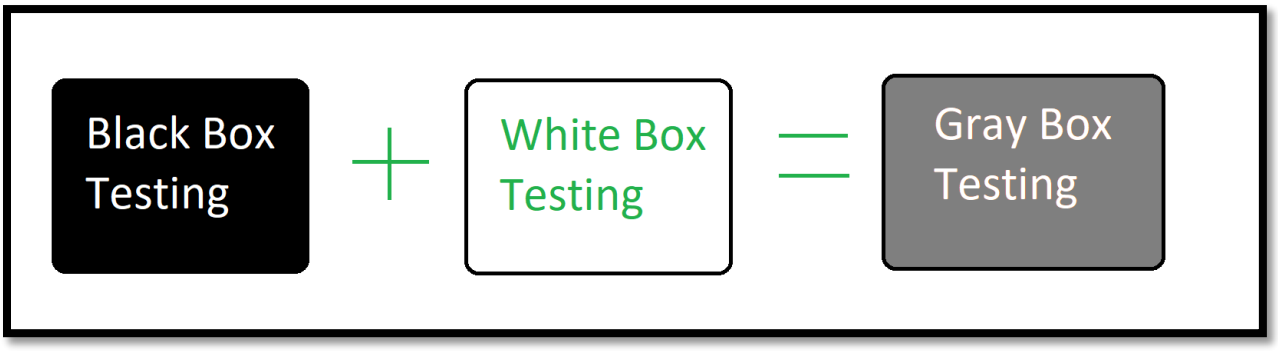
Theory/Logic:

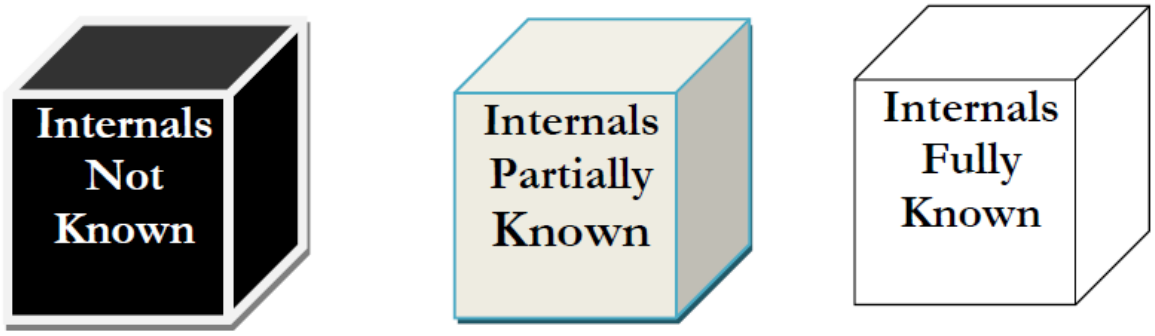
Software Testing is evaluation of the software against requirements gathered from users and system specifications. It is an investigation conducted to provide stakeholders with information about the quality of the product or service under test.

Black-box testing alludes to tests that are conducted at the software interface. They are used to determine that software functional are operational, that input is properly accepted and output is correctly produced, and that the integrity of external information (e.g. database) is maintained. It does not consider the internal logic structure that importance.

White-box testing of software is predicated on close examination of procedural detail. Logical paths through the software are tested by providing test cases that exercise specific sets of conditions and/or loops. The status of the program may be examined at various points to determine if the expected or asserted status corresponds to the actual status.







Comparison between the Three Testing Types

	Black Box Testing	Grey Box Testing	White Box Testing
1.	The Internal Workings of an application are not required to be known	Somewhat knowledge of the internal workings are known	Tester has full knowledge of the Internal workings of the application
2.	Also known as closed box testing, data driven testing and functional testing	Another term for grey box testing is translucent testing as the tester has limited knowledge of the insides of the application	Also known as clear box testing, structural testing or code based testing
3.	Performed by end users and also by testers and developers	Performed by end users and also by testers and developers	Normally done by testers and developers
4.	-Testing is based on external expectations -Internal behavior of the application is unknown	Testing is done on the basis of high level database diagrams and data flow diagrams	Internal workings are fully known and the tester can design test data accordingly
5.	This is the least time consuming and exhaustive	Partly time consuming and exhaustive	The most exhaustive and time consuming type of testing
6.	Not suited to algorithm testing	Not suited to algorithm testing	Suited for algorithm testing
7.	This can only be done by trial and error method	Data domains and Internal boundaries can be tested, if known	Data domains and Internal boundaries can be better tested

Black Box Testing:

Project Name	Faculty Attendance System
Module of the Project	Login & Register New Employee
Date	25/04/2021

Test Case No	Test Sce-nario	Pre-Condition	Test Steps	Test Case	Test Data	Expected Result	Actual Result	Post Condition	Status
1	Verify Login	Account needs to be registered first	1.Enter User Name 2.Enter Password 3. Click on login button	Enter valid username and valid password	<Valid Username> <Valid Password>	Successful Login	Successful Login	Employee Or Admin Dashboard is shown	Pass
				Enter valid username and invalid password	<Valid Username> <Invalid Password>	Invalid username or password	Invalid username or password	Login page is shown	Pass
				Enter invalid username and valid password	<Invalid Username> <Valid Password>	Invalid username or password	Invalid username or password	Login page is shown	Pass
				Enter invalid username and invalid password	<Invalid Username> <Invalid Password>	Invalid username or password	Invalid username or password	Login page is shown	Pass

Project Name	Faculty Attendance System
Module of the Project	Add Photos
Date	25/04/2021

Test Case No	Test Scenario	Pre-Condition	Test Steps	Test Case	Test Data	Expected Result	Actual Result	Post Condition	Status
1	Add Photos	Employee should be registered by admin before add photos.	1. Enter Username 2. click on submit	Enter valid Username	<valid Username>	Webcam will automatically open and capture pictures of the employee to make dynamic dataset.	Dataset will automat-ically create successfully.	Dataset of employee shown in system dataset folder.	Pass

Project Name	Faculty Attendance System
Module of the Project	Delete User
Date	25/04/2021

Test Case No	Test Scenario	Pre-Condition	Test Steps	Test Case	Test Data	Expected Result	Actual Result	Post Condition	Status
1	Delete Employee	Employee should be registered by admin before delete Employee.	1. Enter Username 2. click on submit	Enter valid Username	<valid Username>	All the data of that particular User will be discarded in the Django Administration.	All the data of that particular User will be discarded in the Django Administration.	"User has been successfully deleted." Message will be printed.	Pass

Project Name	Faculty Attendance System
Module of the Project	Attendance Report
Date	25/04/2021

Test Case No	Test Scenario	Pre-Condition	Test Steps	Test Case	Test Data	Expected Result	Actual Result	Post Condition	Status
1	Attendance Report	Employee's data should be there to see Attendance Report.	Based on employee Username	Enter valid Username and select Date Duration	<Valid Username and Date Duration>	Attendance Report will be shown.	Attendance Report will be shown.	In the selected Date Duration Only, data will be shown.	Pass
				Enter invalid Username OR Date Duration	<Invalid Username or Date Duration >	Attendance Report will not be shown.	Attendance Report will not be shown.	Please enter correct username of that particular employee	Pass
			By date	Enter Date	<Valid Date>	Attendance Report will be shown.	Attendance Report will be shown.	In the selected Date Only, data will be shown.	Pass
				Enter Date	<Invalid Date>	Attendance Report will not be shown.	Attendance Report will not be shown.	Please enter Correct date.	Pass

Project Name	Faculty Attendance System
Module of the Project	Add Holiday
Date	25/04/2021

Test Case No	Test Scenario	Pre-Condition	Test Steps	Test Case	Test Data	Expected Result	Actual Result	Post Condition	Status
1	Add Holiday	Date of Holidays must be the after of today's date. [e.g. : Today's date = 20/04/21 So enter holiday list after this days only]	1.Enter Holiday Name 2.Select Date of the holiday 3. Click on submit.	Enter Holiday and holiday's date	<Valid Holiday Information>	Holiday will be added.	Holiday will be added.	-	Pass
				Enter Holiday and holiday's date	<Invalid Holiday Information>	Holiday will not be added.	Holiday will not be added.	Re-select the correct date as per pre-condition.	Pass