

**Comsats University Islamabad**

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**Software Testing**

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**Assignment 4(A)**

1. **Briefly define android application testing? Describe with detail Android application testing**
2. **Touch utility driver,**
3. **mock objects**
4. **assertions for android application Testing**

**Answer:**

**Android Application Testing:**

Testing your app is **an integral part of the android app development process**. By running tests against your app consistently, you can verify your app's correctness, functional behavior, and usability before you release it publicly. Testing also offers the following advantages: Rapid feedback on failures.

**Following types of testing are performed in order to certify an Android application:**

* Functional Testing: ...
* Android UI Testing: ...
* Compatibility Testing: ...
* Interface Testing: ...
* Network Testing: ...
* Performance Testing: ...
* Installation Testing: ...
* Security Testing:

**Touch utility driver:**

A touch screen device is used for direct manipulation of objects on the screen. Since the user is directly touching the screen, the system does not require any additional affordances to indicate the objects being manipulated

**assertions for android application Testing**

assert is a Java keyword used to define an assert statement. An assert statement is used to declare an expected Boolean condition in a program. If the program is running with assertions enabled, then the condition is checked at runtime. If the condition is false, the Java runtime system throws an AssertionError

**Mock Objects:**

A mock object is **the object that has properties of the real object while skipping the complications of creating a real object now**.

android.test.mock.MockContext. A mock Context class. All methods are non-functional and throw UnsupportedOperationException . You can use this to inject other dependencies, mocks, or monitors into the classes you are testing.