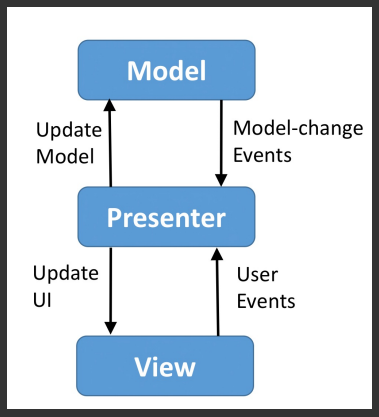
B07 Nov 22 Lec 1 Notes

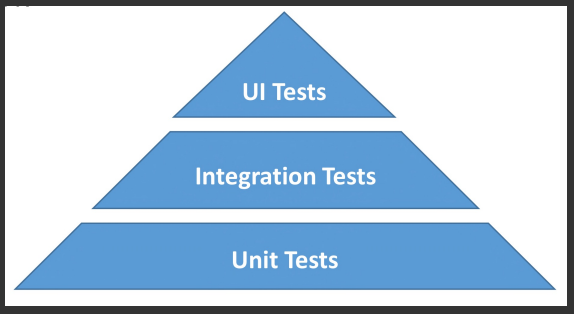
Model - View - Presenter

- An architectural design pattern that makes code easier to test.



Local and Instrumental Tests

- Local Unit Tests
  - Runs on the machine's local JVM.
  - Does not depend on the android framework.
- Instrumented tests
  - Run on an actual device or an emulator.
  - Usually used for integration and UI tests.



Commonly used tools

- JUnit
- Mockito
  - Creating mock objects to facilitate testing a component in isolation.
- Roboelectric
  - Running tests involving the Android framework without an emulator.
- Espresso
  - Writing UI tests.

Mock Objects

- A mock is a software component that is used to replace the "real" component during testing.
- Mock objects could be used to:
  - Represent components that have not yet been implemented.
  - Speed up testing.
  - Reduce cost
  - Avoid unrecoverable actions

Mockito

- A mocking framework for Java.
- Features:
  - Creating mocks
  - Stubbing - defines behaviour of mock objects, i.e. implement methods of mock objects
  - Verifying behaviour - make sure if component is behaving correctly.