



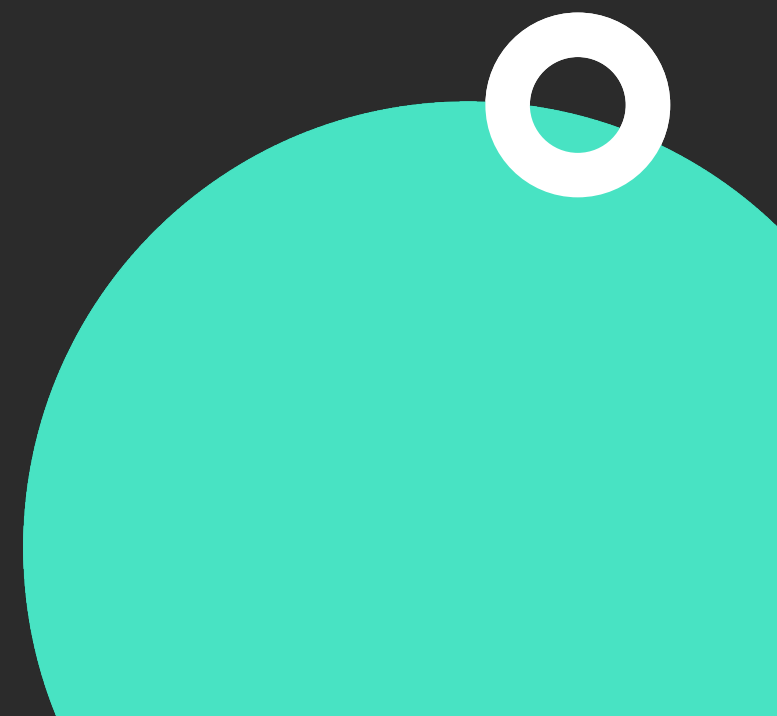
Testing Composables in Android Jetpack Compose



Saurabh Pant

 @saurabh30pant

 in/saurabpant





Course Introduction

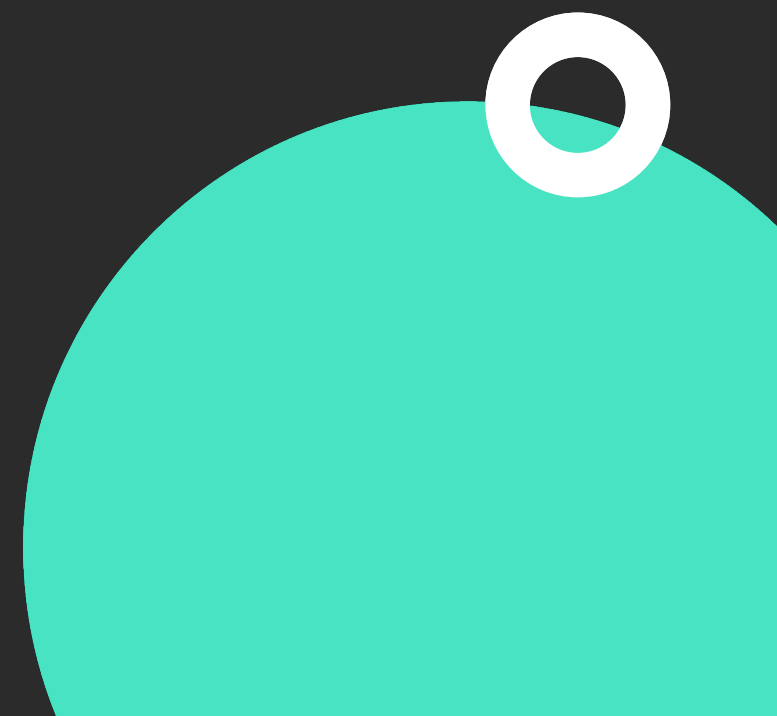
Composable function

```
@Composable  
fun ProfileEdit() { ... }
```

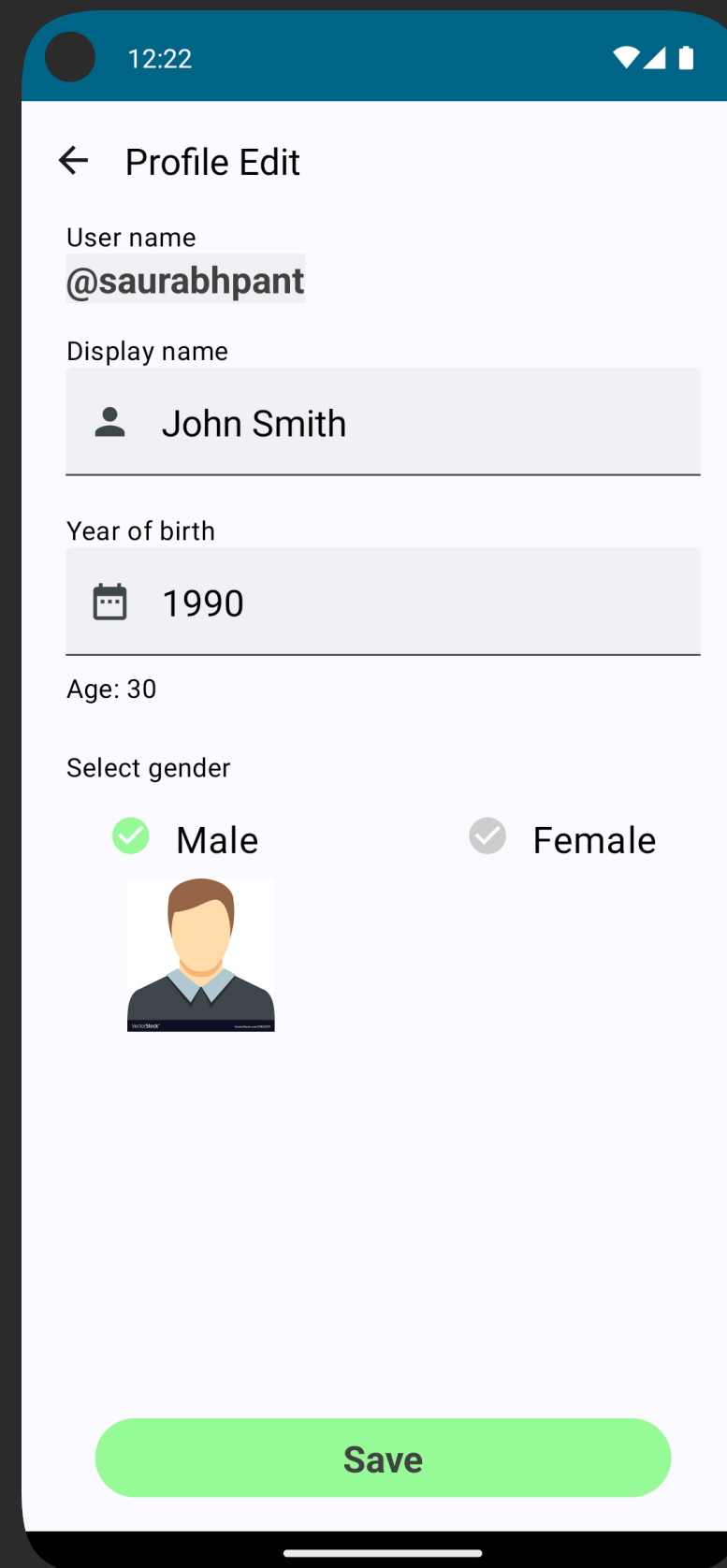
Dependencies

Finder APIs
Assertion APIs
Action APIs

Run + Validate



What Are We Going To Test?



A screenshot of a mobile application's 'Profile Edit' screen. The screen has a teal header bar with a back arrow, the time '12:22', and status icons. The main content area is white and contains several form fields: 'User name' with the value '@saurabh pant', 'Display name' with a person icon and the value 'John Smith', 'Year of birth' with a calendar icon and the value '1990', and 'Age' with the value '30'. Below these is a 'Select gender' section with two radio buttons: 'Male' (selected, indicated by a green checkmark) and 'Female' (unselected, indicated by a grey checkmark). Under the 'Male' option is a placeholder image of a man. At the bottom of the screen is a large green rounded rectangle button labeled 'Save'.

12:22

← Profile Edit

User name
@saurabh pant

Display name
John Smith

Year of birth
1990

Age: 30

Select gender

☒ Male ☐ Female

Save



Steps to Testing

- Set up the **test environment**
- Create the **test class**
- Add **Compose Rule**
- Set up **@Before** and **@After** annotation
- Write **test cases**
- Run and Validate test cases



Let's Get to the Code

Download the Starter Project

Link given in the Study material section of Course Content



Setting up the Environment

Add dependencies & Create test class



AndroidTestRunner

Responsible for **running** our tests and **providing** us the results

Local tests



JUnit Runner

UI tests



AndroidJUnit Runner



Create Test Class



Add Compose Rule



Set up `@Before` and `@After` annotation



Write test cases



Run and Validate test cases



Code Challenge

4:09

← Profile Edit


User name
@saurabh pant

Display name
John Smith etc
name is invalid

Year of birth
XXXX
year is invalid

Select gender

☐ Male ☒ Female



Save

Code Challenge Solution



Learnings

- Set up required for creating a test environment for composables
- Different APIs available for testing composables
- Terms associated with testing
- How to run and validate test cases



Congratulations!





Until Next Time...



Saurabh Pant

 @saurabh30pant

 in/saurabpant

