

# IT314

## SOFTWARE ENGINEERING

**Project:** Health Center Management

**Group:** 12

### Unit Testing

**Tool :** Android Studio

**Framework :** Junit Testing

**Language :** Kotlin

### Unit 1: EmailLogin

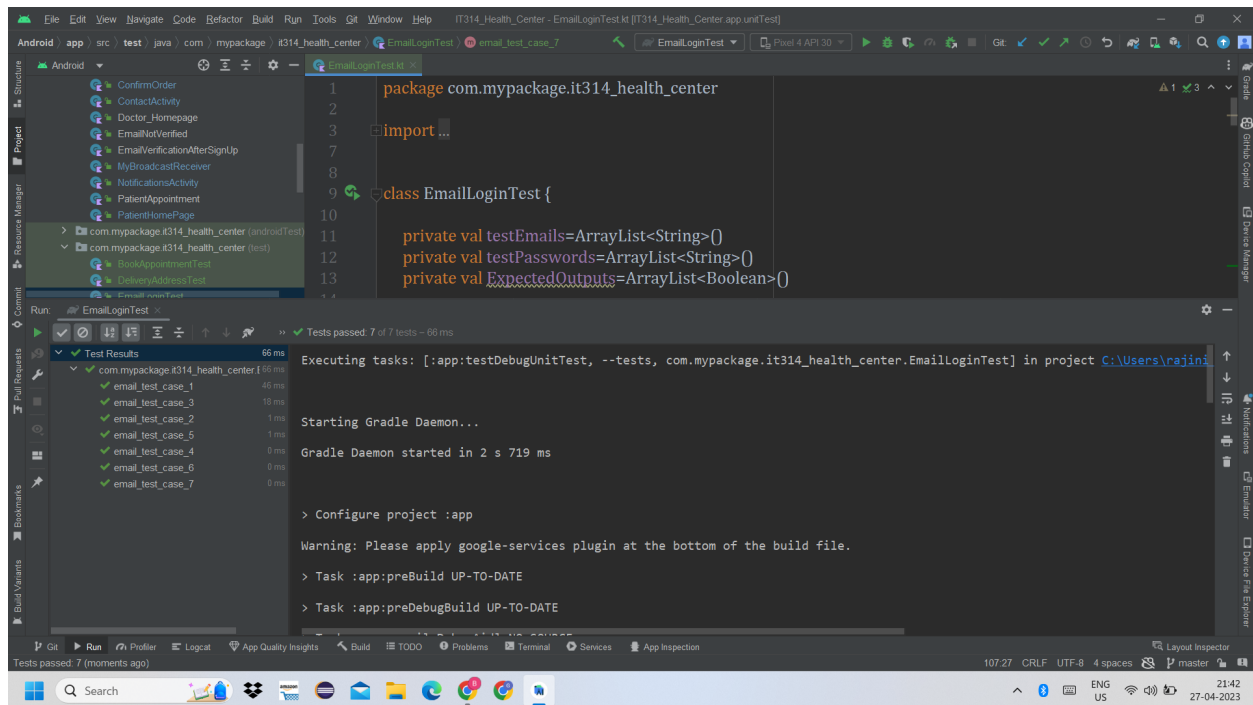
**Test suite :**

The test cases obtained from equivalence class partitioning and boundary value analysis are as follows

Input data		Expected output
Equivalence partitioning		
email	password	
devkabra@gmail.com	abcde@1	Valid
helloWorldgmail.com	abc23df	Invalid
nipun41@gmail.com	xy@!sf	Valid
pabloEsco@yahoo.com	abd	Invalid
Boundary value analysis		
random@gmail.com	abcde	valid

raju23@gmail.com	sdfs	invalid
bmassfh@gmail.com	as@gsd	invalid

## Junit Test Result:



## Unit 2: MobileLogin

### Test suite :

The test cases obtained from equivalence class partitioning and boundary value analysis are as follows

Input data	Expected output
Boundary value analysis	

924567889	123456	Invalid
3858686857	094356	Valid
55865949494	092345	Invalid
6725044254	13452	Invalid
8032972475	232324	valid
9312931843	4523223	Invalid

As the equivalence partition and boundary values analysis test cases are almost identical for this case, equivalence partitioning can be skipped.

## Junit Test Result:

```

1 package com.mypackage.it314_health_center
2
3 import ...
4
5 class MobileLoginTest {
6     private val testMobiles = ArrayList<String>()
7     private val testOTPs = ArrayList<String>()
8     private val ExpectedOutputs = ArrayList<Boolean>()
9
10    @Before
11    fun setup() {
12        // initializing email test cases
13    }
14 }

```

Test Results: 65 ms

- com.mypackage.it314\_health\_center: 65 ms
  - mobile\_test\_case\_1: 47 ms
  - mobile\_test\_case\_2: 17 ms
  - mobile\_test\_case\_3: 1 ms
  - mobile\_test\_case\_4: 0 ms
  - mobile\_test\_case\_5: 0 ms
  - mobile\_test\_case\_6: 0 ms

Executing tasks: [:app:testDebugUnitTest, --tests, com.mypackage.it314\_health\_center.MobileLoginTest] in project C:\Users\rajind

> Configure project :app

Warning: Please apply google-services plugin at the bottom of the build file.

> Task :app:preBuild UP-TO-DATE

> Task :app:preDebugBuild UP-TO-DATE

> Task :app:compileDebugAidl NO-SOURCE

Tests passed: 6 (moments ago)

### Unit 3: Booking Appointment

#### Test suite :

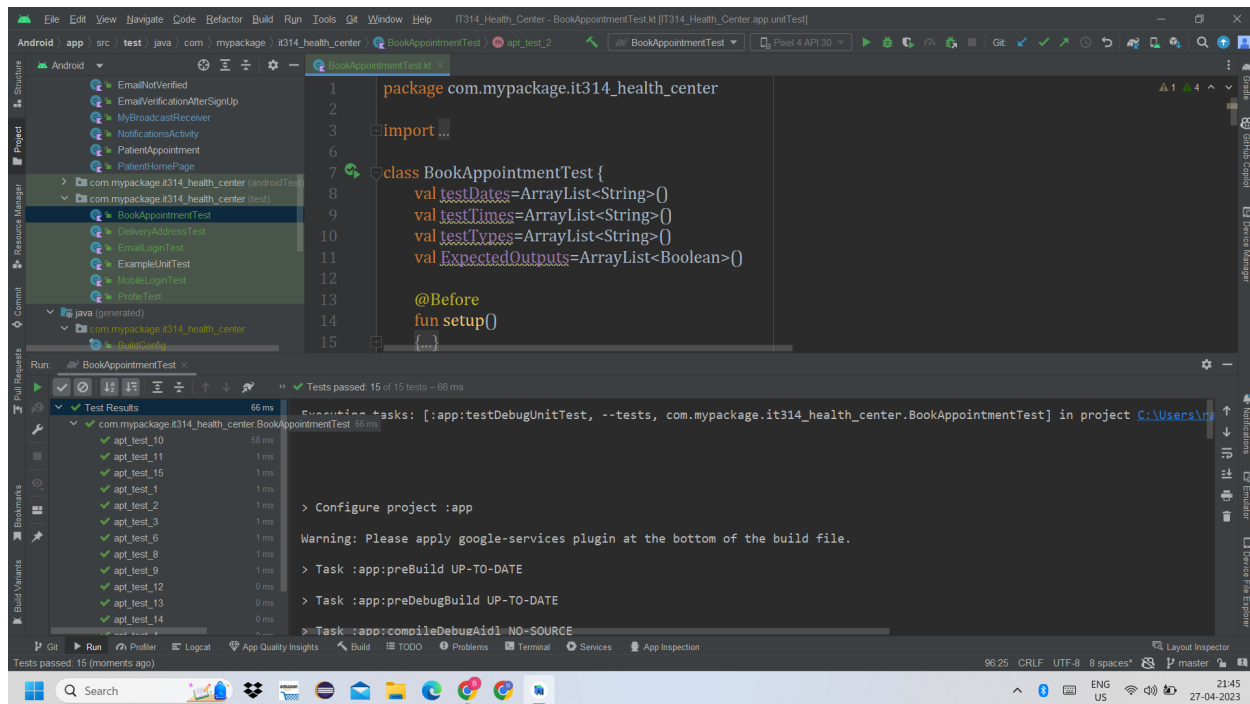
The test cases obtained from equivalence class partitioning and boundary value analysis are as follows

Assuming current date(today) to be 27/04/2023 and current time to be 17:30 and appointment booking is allowed only for future time and date.

Input data			Expected output
Equivalence partitioning			
date	time	Appointment type	
29/04/2023	05:40	offline	valid
27/04/2023	14:50	offline	invalid
24/04/2023	09:30	online	invalid
27/04/2023	21:48	offline	valid
27/04/2023	17:30	online	invalid
27/04/2023	14:20	online	invalid
09/11/2023	18:39	offline	valid
01/05/2023	19:20	online	valid
31/04/2023	22:00	none	Invalid
Boundary value analysis			
26/04/2023	05:40	offline	invalid
27/04/2023	17:50	online	valid
28/04/2023	04:30	online	valid

29/04/2023	17:29	offline	valid
27/04/2023	17:30	offline	invalid
01/05/2023	17:31	online	valid

## Junit Test Result:



## Unit 4: Delivery order address

### Test suite :

The test cases obtained from equivalence class partitioning and boundary value analysis are as follows

Input data	Expected output
------------	-----------------

Equivalence partitioning				
city	state	address	pincode	
-	gujarat	A 34 Rimesh residency, near gh 0 road, shanti palace	343223	invalid
Chapora	goa	E23 rakshamal societies, near holicut	390009	valid
Pune	-	E23 rakshamal societies, near holicut	234242	invalid
Tezpur	assam	Kalali bridge, somnath, ghazar road, jaki palace	234232	valid
Patna	bihar	Jk road	534234	invalid
Gulmarg	kashmir	Snow palace, near harkesh nagar, tuis road	385535	valid
Kochi	kerala	A22 trupti tenmanets, near folji villa	308224	valid
Chennai	Tamil nadu	S20 shimestar society, near Padma Kamal	23422342	invalid
Warangal	Telangana	D23 jk road, himmatnagar, near jodhnagar	232	invalid
Boundary value analysis				
Tezpur	assam	Jk road gh0, near	795124	invalid

Patna	bihar	Mk road gh34, near lt	745721	valid
Gulmarg	kashmir	Lok road gh56, near halol	124568	valid
Kochi	kerala	Jk road gh0, near halol, kalali bridge	352342	valid
Chennai	Tamil nadu	D23 jk road, himmatnagar, near jodhnagar	23423	invalid
Warangal	Telangana	Kalali bridge, somnath, ghazar road, jaki palace	2342532	invalid

## Junit Test Result:

The screenshot displays the JUnit test results for the `DeliveryAddressTest` class. The test suite `com.mypackage.it314_health_center.DeliveryAddressTest` executed successfully, passing all 15 tests in 45 milliseconds. The tests are listed as `addr_test_10` through `addr_test_9`, all marked with green checkmarks. The IDE also shows the build output, including the configuration of the project and the execution of various tasks such as `preBuild`, `preDebugBuild`, `compileDebugAidl`, `compileDebugRenderscript`, `dataBindingMergeDependencyArtifactsDebug`, `generateDebugResValues`, `generateDebugResources`, and `processDebugGoogleServices`.

## Unit 5: Profile details

### Test suite :

The test cases obtained from equivalence class partitioning and boundary value analysis are as follows

Assuming current date(today) to be 27/04/2023 and date of birth should be a previous date.

Inputs	Equivalence partitioning			
name	-	harsh	dev	ria
Date of birth	12/05/2003	23/06/2004	29/04/2023	12/05/2004
gender	male	male	male	female
address	E23 rakshamal societies, near holicut	Kalali bridge, somnath, ghazar road, jaki palace	A22 trupti tenmanets, near folji villa	S20 shinestar society, near Padma Kamal
city	Baroda	Halol	Himmat	Porbandar
state	Gujarat	Gujarat	Gujarat	Gujarat
pincode	234567	567890	123456	123456
country	India	australia	new zealand	russia
Expected output	invalid	valid	invalid	valid

name	Eksn	refg	tyue	regina
Date of birth	12/05/2004	12/05/2012	05/05/2004	22/05/2008



gender	male	female	other	female
address	Snow palace, near harkesh nagar, tuis road	E23 rakshamal societies, near holicut	Snow palace, near harkesh nagar, tuis road	Jk road
city	Surat	Halol	Baroda	Halol
state	Gujarat	Gujarat	Gujarat	Gujarat
pincode	234567	345678	678901	423952
country	china	japan	malaysia	singapore
<b>Expected output</b>	valid	valid	invalid	invalid

name	dev	guru	itra	titra
Date of birth	22/08/2004	12/05/2009	22/05/2012	12/06/2004
gender	male	male	female	female
address	Snow palace, near harkesh nagar, tuis road	E23 rakshamal societies, near holicut	D23 jk road, himmatnagar, near jodhnagar	Snow palace, near harkesh nagar, tuis road
city	Surat	-	Pune	Halol
state	Gujarat	Gujarat	Maharashtra	-
pincode	123456	234567	345678	563421
country	dubai	India	France	Pakistan
<b>Expected output</b>	valid	invalid	valid	invalid

name	nipu	dev	raju	dev
Date of birth	12/05/2004	22/12/2004	12/05/2012	22/05/2004
gender	male	male	male	male
address	A 34 Rimesh residency, near gh 0 road, shanti palace	Snow palace, near harkesh nagar, tuis road	D23 jk road, himmatnagar, near jodhnagar	A 34 Rimesh residency, near gh 0 road, shanti palace
city	Chapora	Halol	Surat	Surat
state	Goa	Gujarat	Gujarat	Gujarat
pincode	567890	123456	4564223	3456
country	India	Japan	America	Russia
<b>Expected output</b>	valid	valid	invalid	invalid

name	raju	kavi
Date of birth	22/05/2004	12/05/2004
gender	male	male
address	S20 shinestar society, near Padma Kamal	A 34 Rimesh residency, near gh 0 road, shanti palace
city	Hyderabad	Chennai
state	Telangana	Kerala

pincode	123456	458901
country	-	china
<b>Expected output</b>	invalid	valid

## Junit Test Result:

