

# VALVEN

Different Ideas

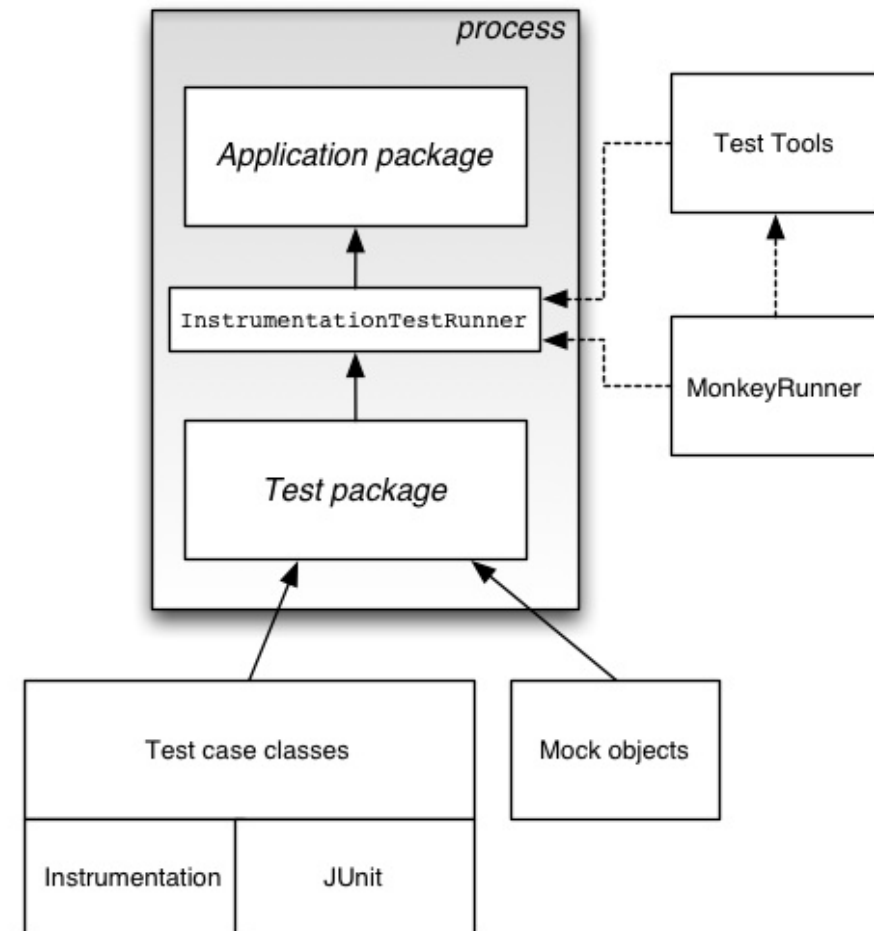
Sürekli Entegrasyon ile Android Arayüz Testi  
Serdar Biçer, CTO

# Sürekli Entegrasyon

- Extreme Programming – TDD
- Entegrasyon problemlerinin erken tespiti
- Kaliteyi arttırmak
  - Regresyon testleri
  - Hatanın erken fark edilmesi

# Android'de Test

- JUnit tabanlı
  - Event üretme
  - Görsel nesnelere erişim
  - Kaynaklara erişim
- IDE veya komut satırı



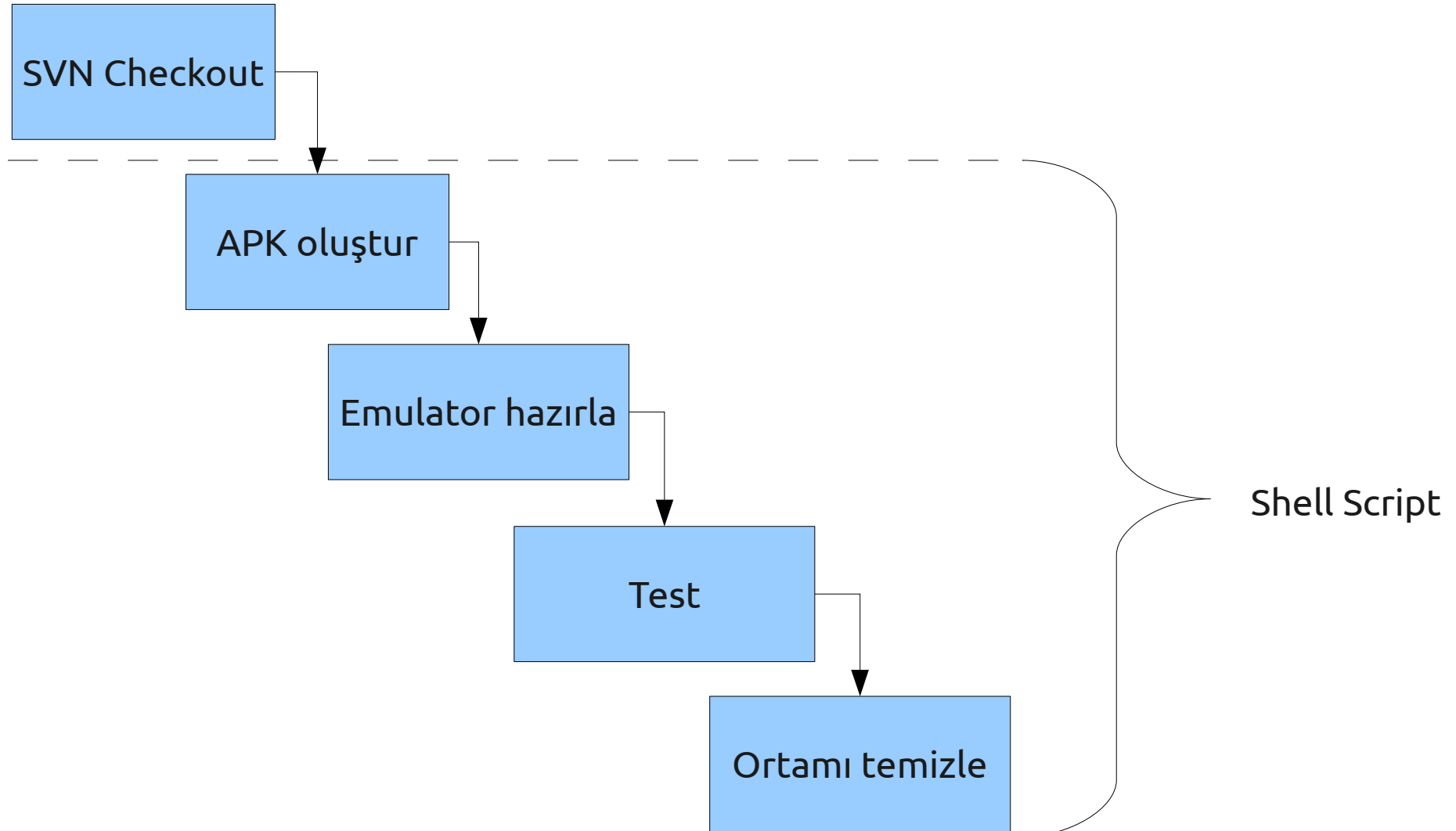
# Kullanıcı Arayüzü Testi Niye Farklı?

- Test sınıfları farklı
  - `ActivityInstrumentationTestCase2` vs `AndroidTestCase`
- Kullanıcı davranışı
  - Tıkla – bekle
  - Orientation
- Cihaz farklılıkları
  - Çözünürlük
  - Version

# Senaryo

- Android Tablet Uygulaması (API 11+)
- Robotium 4.1
- Atlassian Bamboo
- Kullanıcı testi

# Test Akışı



# Script

```
#!/bin/bash
```

```
rm -rf test-reports/*
```

```
#APK oluştur
```

```
cd com.demo
```

```
$1/android-sdk-linux/tools/android update project --name com.demo --path . --target 1 --subprojects
```

```
cd ../com.demo.test
```

```
$1/android-sdk-linux/tools/android update test-project -m ../com.demo/ -p .
```

```
ant instrument
```

```
#Emulator'u çalıştır
```

```
$1/android-sdk-linux/tools/emulator -avd AVD1 -verbose -no-window -noaudio -no-boot-anim &
```

```
#ve bir süre bekle
```

```
sleep 60
```

# Script

## **#Emulator ekran kilidini aç**

```
echo "event send EV_KEY:KEY_SOFT1:1" | nc -q1 localhost 5554
```

## **#Paketi kur**

```
ant installi
```

## **#Testleri çalıştır**

```
cd ../test-reports
```

```
$1/android-sdk-linux/platform-tools/adb shell am instrument -w -e class com.demo.test.SearchTest  
com.demo.test/com.zutubi.android.junitreport.JUnitReportTestRunner
```

```
$1/android-sdk-linux/platform-tools/adb pull /data/data/com.demo/files/junit-report.xml
```

```
mv junit-report.xml junit-report-search.xml
```

```
$1/android-sdk-linux/platform-tools/adb shell am instrument -w -e class com.demo.test.MainMenuTest  
com.demo.test/com.zutubi.android.junitreport.JUnitReportTestRunner
```

```
$1/android-sdk-linux/platform-tools/adb pull /data/data/com.demo/files/junit-report.xml
```

```
mv junit-report.xml junit-report-main.xml
```



# Script

## **#Uygulamaları kaldır ve emulatoru kapat**

```
var1=$(ps -ef|grep -w emulator64 | awk '{print $2}' |  
head -1)
```

```
$1/android-sdk-linux/platform-tools/adb uninstall  
com.demo
```

```
$1/android-sdk-linux/platform-tools/adb uninstall  
com.demo.test
```

```
kill -9 $var1
```

# Test Raporları

- Junit Parser
- Pattern: `**/test-reports/*.xml`

# Atlassian Bamboo Test Raporları

❗ #23 failed

[Build Summary](#) **Tests** [Changes](#) [Artifacts](#) [Logs](#) [Metadata](#) [Issues](#)

## Test Results

🌐 15 tests in total ❗ 2 tests failed ⌚ 14 minutes taken in total.

Existing Test Failures 2

Test	Failing Since
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▶ ❗ PlayerCarouselSwipeTest testPlayRadios ⓘ	
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	#14 (Manual build by <a href="#">Serdar Bicer</a> )
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▶ ❗ SearchTest testSearch ⓘ	
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	#14 (Manual build by <a href="#">Serdar Bicer</a> )
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```
junit.framework.AssertionFailedError: junit.framework.AssertionFailedError: <null>
junit.framework.AssertionFailedError
    at com.turkcell.muzik.test.SearchTest.testSearch(SearchTest.java:30)
```

# TEŞEKKÜRLER

Kaynak kod:

[https://github.com/valven/sunum/blob/master/gdg\\_ankara\\_script.sh](https://github.com/valven/sunum/blob/master/gdg_ankara_script.sh)