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Building Digits

Israel Ferrer Camacho

Senior Software Engineer | @rallat

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NO PASSWORDS

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Digits
@digits
Forget passwords - use your phone to sign in to your favorite apps. Introducing Digits.
1706
386

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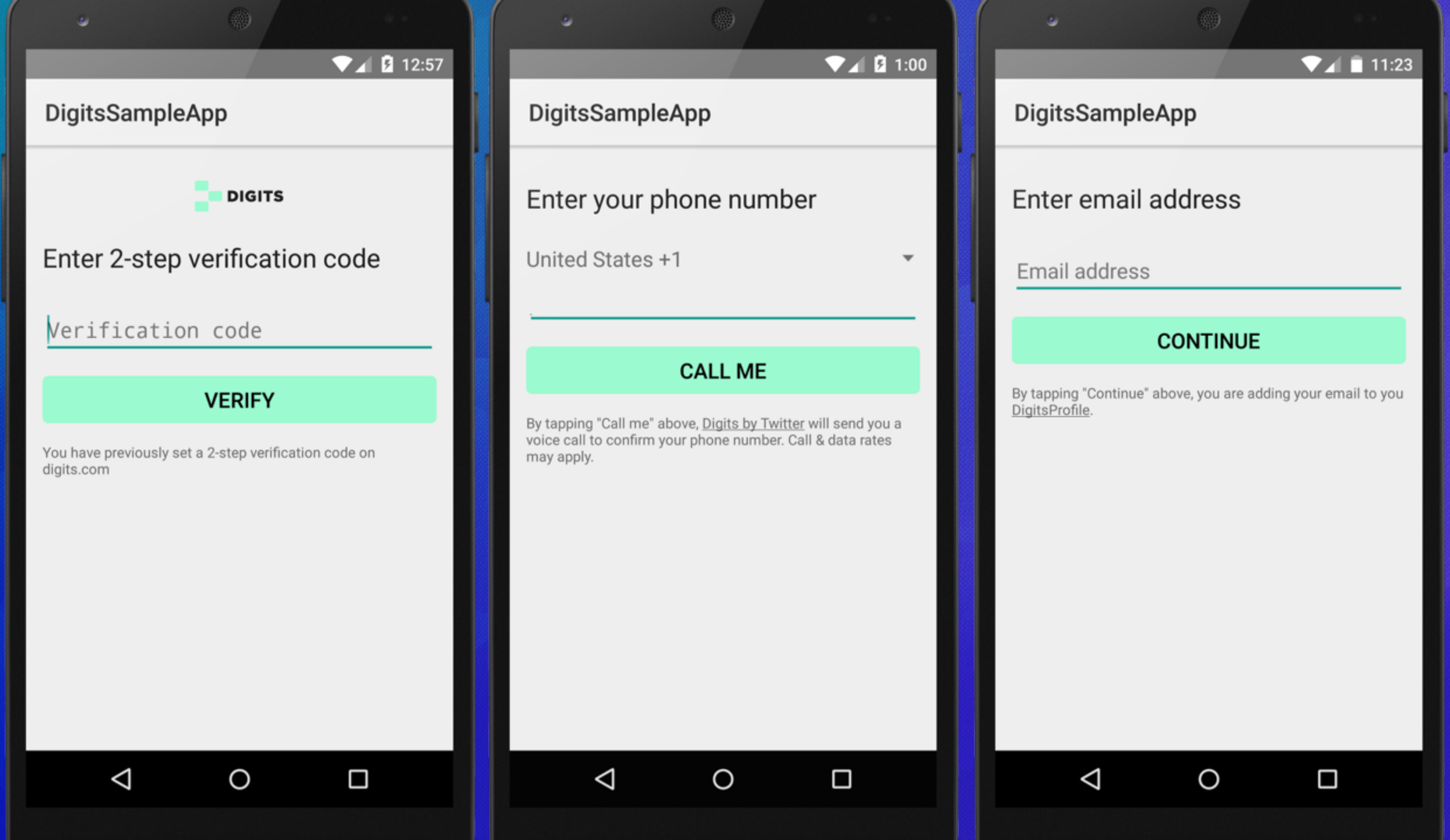
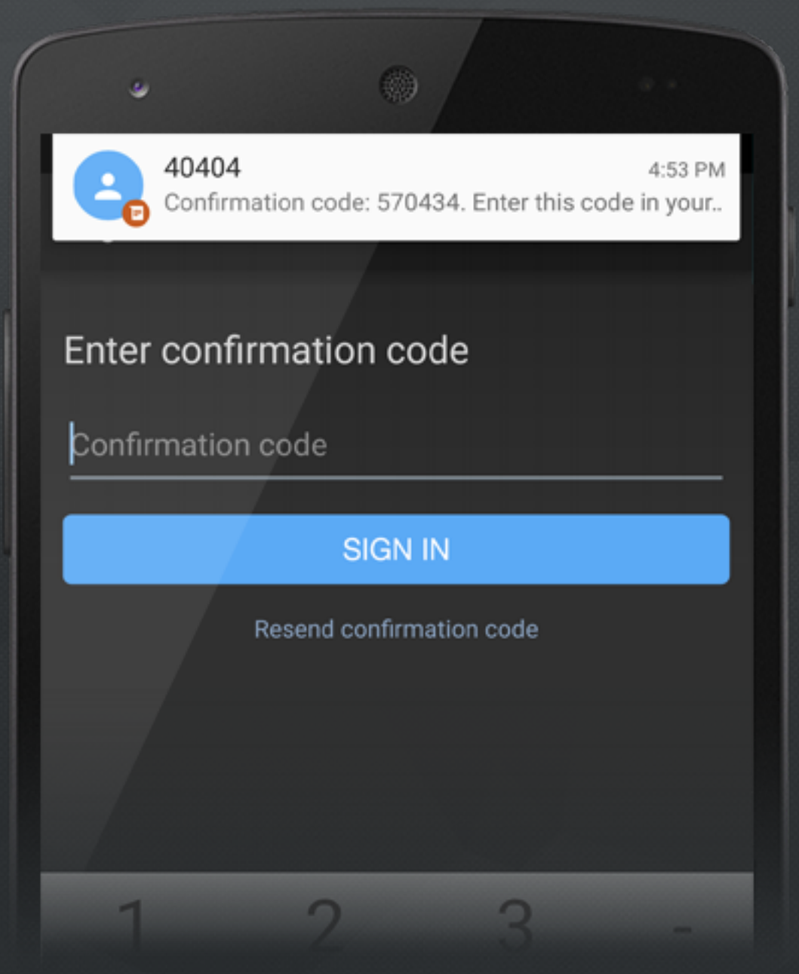
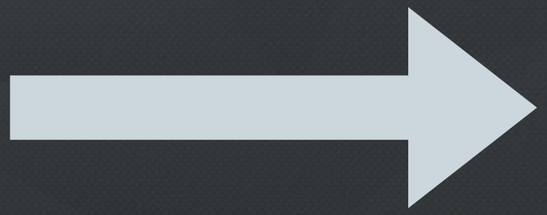

12:57
DigitsSampleApp
DIGITS
Enter 2-step verification code
Verification code
VERIFY
You have previously set a 2-step verification code on digits.com
1:00
DigitsSampleApp
Enter your phone number
United States +1
CALL ME
By tapping "Call me" above, Digits by Twitter will send you a voice call to confirm your phone number. Call & data rates may apply.
11:23
DigitsSampleApp
Enter email address
Email address
CONTINUE
By tapping "Continue" above, you are adding your email to you DigitsProfile.

How Was Digits Built?

EASIER SAID THAN DONE





OPERATORS

SMS API

SMS
AGGREGATOR

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API driven development

Easy to use
Hard to misuse

```
Digits.authenticate(new AuthCallback() {
    @Override
    public void success(DigitsSession session,
    String phoneNumber) {

    }

    @Override
    public void failure(DigitsException error) {

    }
});
```

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Rock solid code

Business logic code coverage

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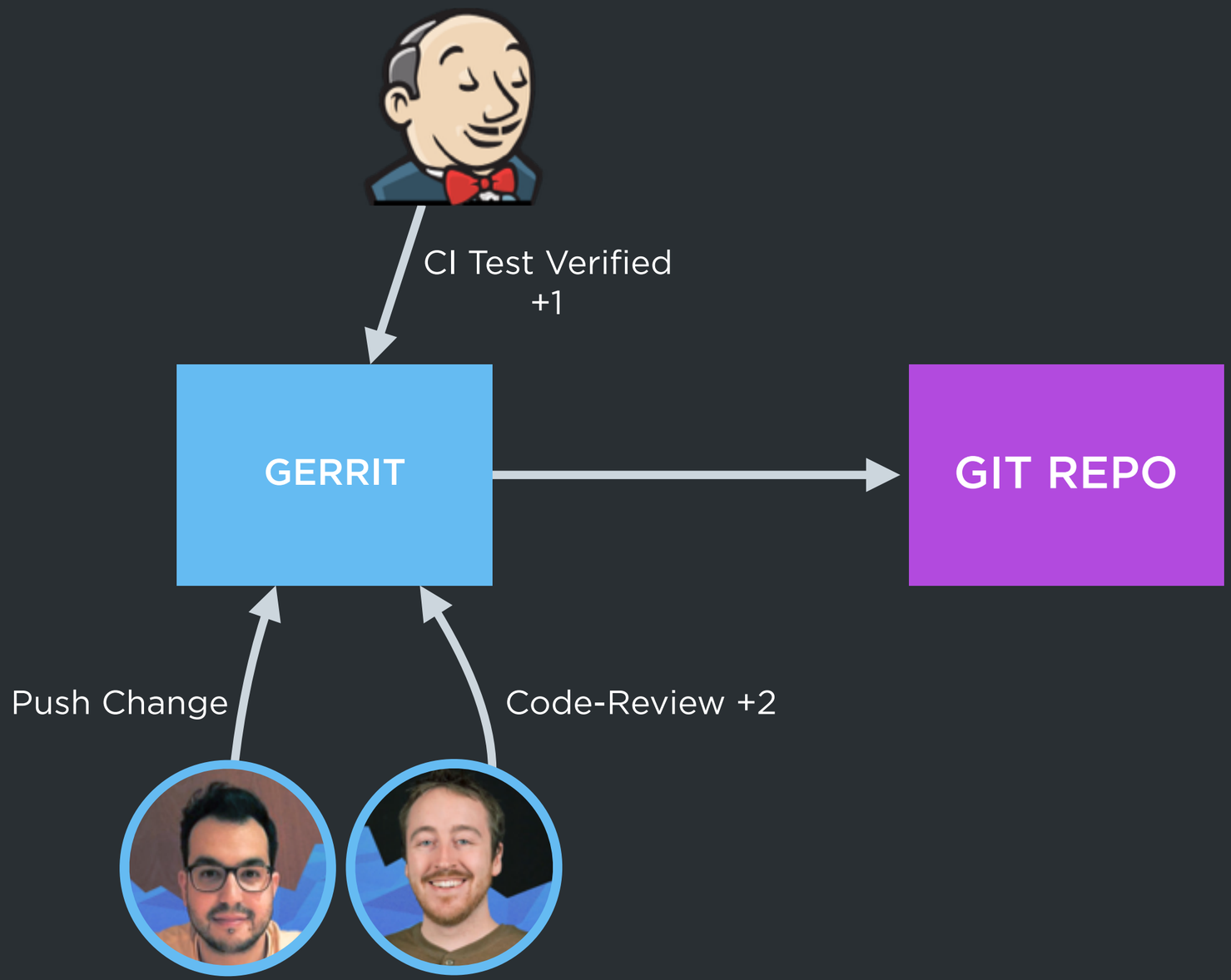

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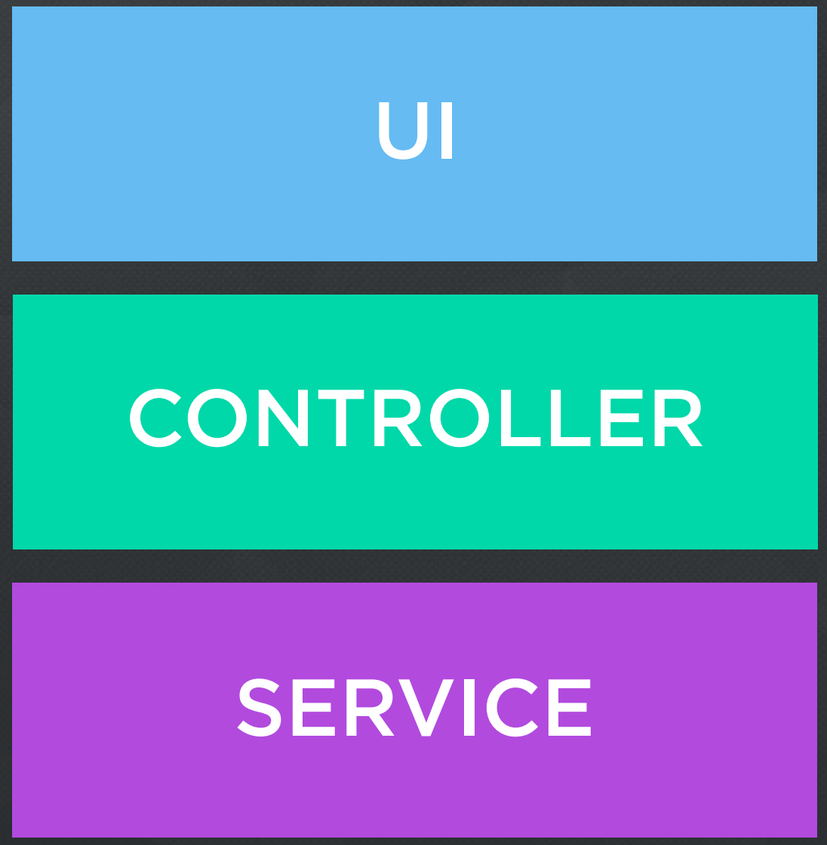
16 Releases

8 new features

Only **1** Hot Fix

Android Design Decisions



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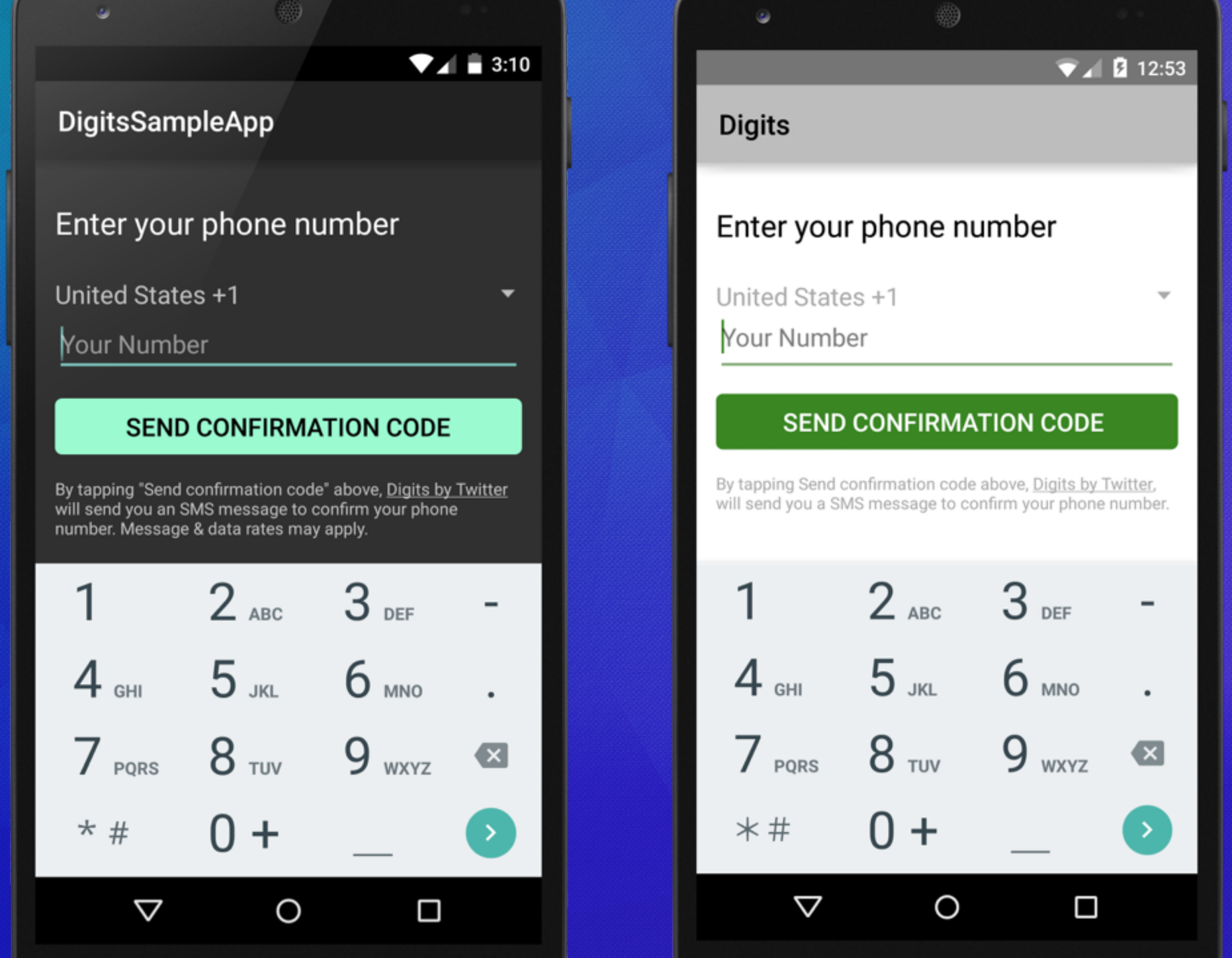
Activity
Simple Navigation
or
Simple UI
Fragment
Custom Reusable views

Theming

SOLVING FRAGMENTATION IN THEMING


3:10
DigitsSampleApp
Enter your phone number
United States +1
Your Number
SEND CONFIRMATION CODE
By tapping "Send confirmation code" above, Digits by Twitter will send you an SMS message to confirm your phone number. Message & data rates may apply.
12:53
Digits
Enter your phone number
United States +1
Your Number
SEND CONFIRMATION CODE
By tapping Send confirmation code above, Digits by Twitter, will send you a SMS message to confirm your phone number.

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Support API level 9 & above
with/o AppCompat

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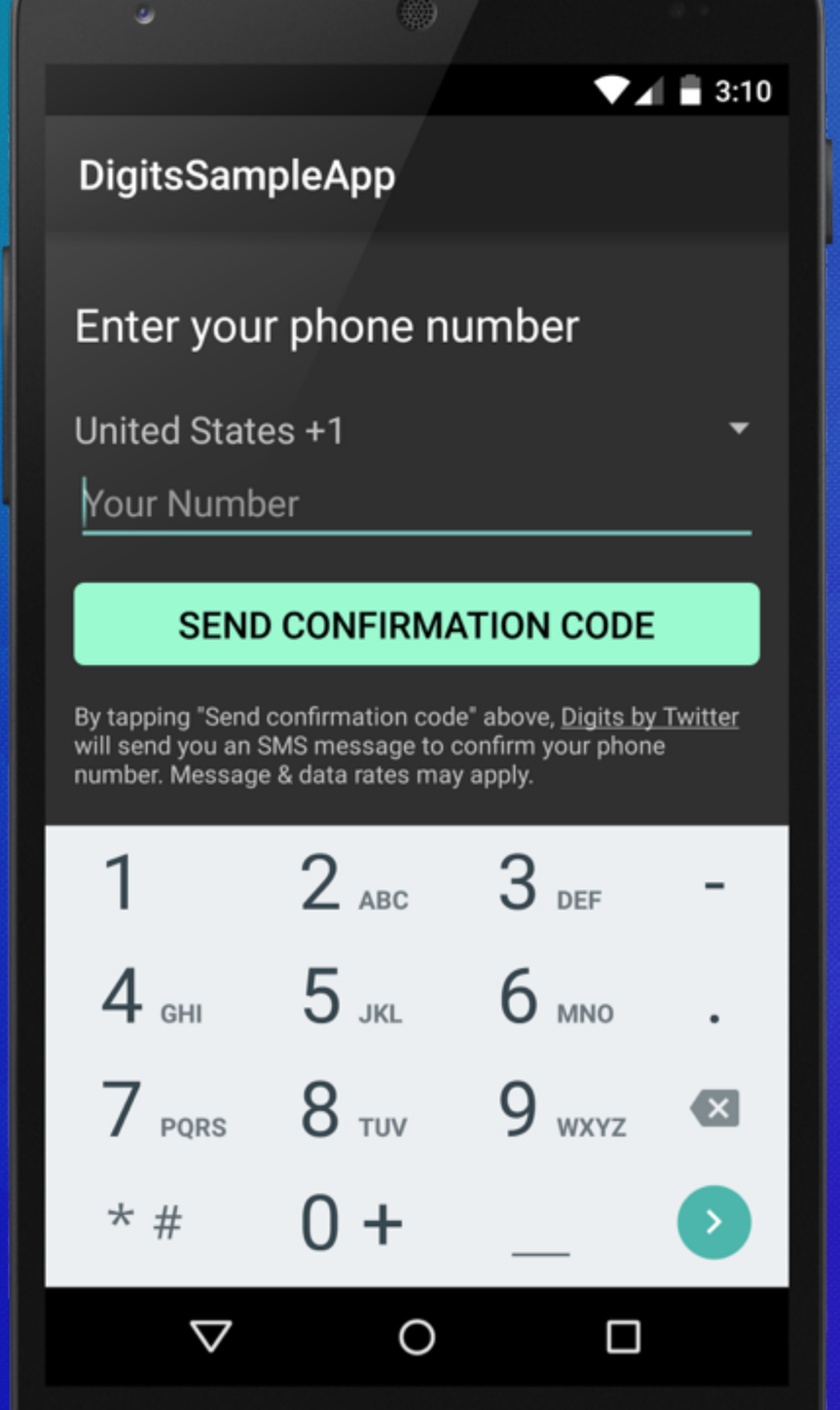
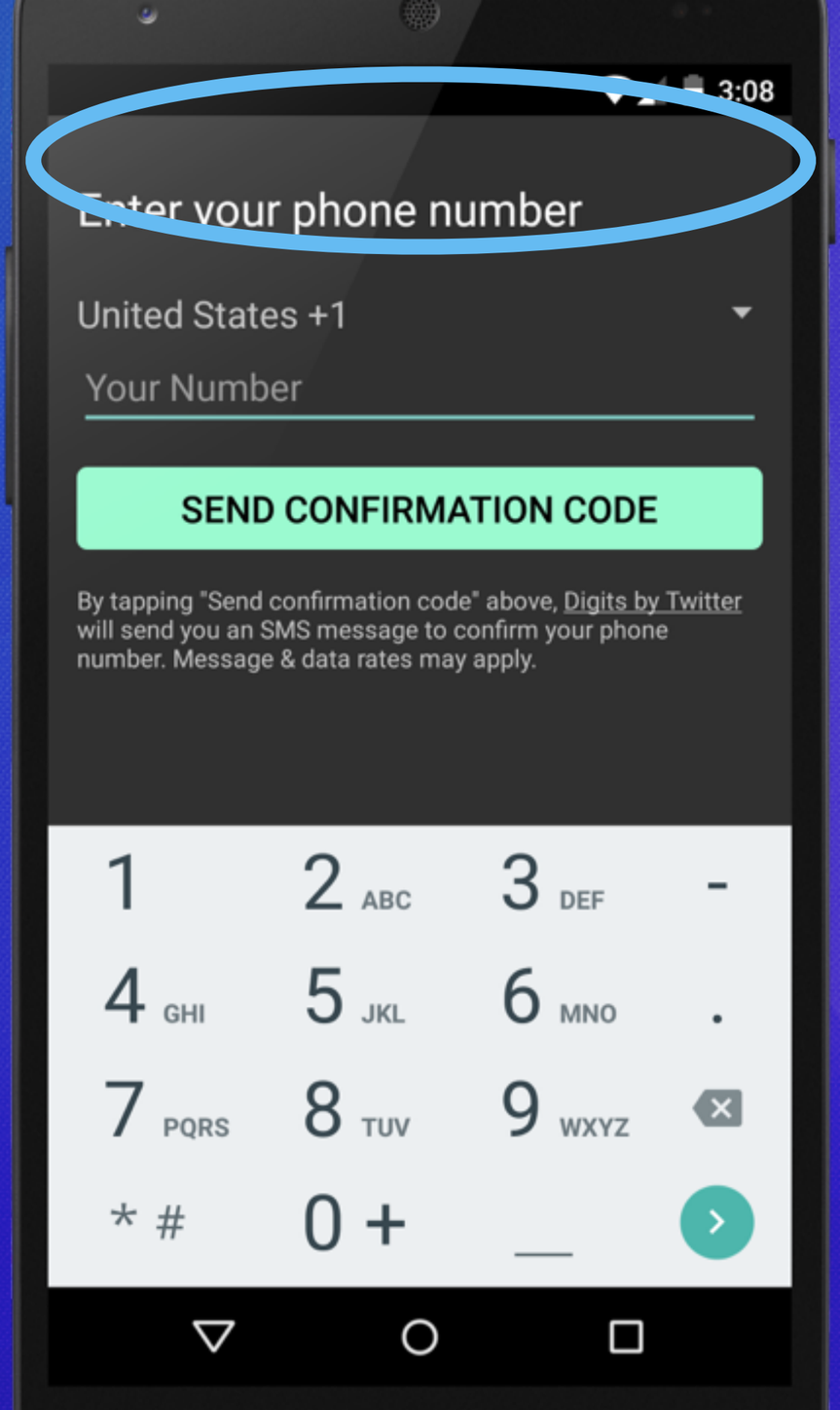
AppCompat Support

```
<resources>

    <style name="AppTheme" parent="Theme.AppCompat">
        <item name="dgts__accentColor">#9bfad0</item>
        <item name="dgts__logoDrawable">@drawable/dgts__logo</item>
    </style>

</resources>
```


3:10
DigitsSampleApp
Enter your phone number
United States +1
Your Number
SEND CONFIRMATION CODE
By tapping "Send confirmation code" above, Digits by Twitter will send you an SMS message to confirm your phone number. Message & data rates may apply.
1
2 ABC
3 DEF
-
4 GHI
5 JKL
6 MNO
.
7 PQRS
8 TUV
9 WXYZ
* #
0 +


3:08
Enter your phone number
United States +1
Your Number
SEND CONFIRMATION CODE
By tapping "Send confirmation code" above, Digits by Twitter will send you an SMS message to confirm your phone number. Message & data rates may apply.
1
2 ABC
3 DEF
-
4 GHI
5 JKL
6 MNO
.
7 PQRS
8 TUV
9 WXYZ
* #
0 +

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```
public interface ActivityClassManager {

    Class<? extends Activity> getPhoneNumberActivity();

    Class<? extends Activity> getConfirmationActivity();

    Class<? extends Activity> getLoginCodeActivity();

    Class<? extends Activity> getFailureActivity();

    Class<? extends Activity> getContactsActivity();

    Class<? extends Activity> getPinCodeActivity();
}
```

```
ActivityClassManager createActivityClassManager(Context context,
int themeResId) {
    try {
        Class.forName("android.support.v7.app.AppCompatActivity");

        final ThemeAttributes attributes = new ThemeAttributes();
        if (isAppCompatTheme(context, themeResId, attributes)) {
            return new AppCompatClassManagerImp();
        } else {
            return new ActivityClassManagerImp();
        }
    } catch (Exception e) {
        return new ActivityClassManagerImp();
    }
}
```

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    }
}
```

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```
public class PhoneNumberActionBarActivity extends DigitsAppCompatActivity {
    @Override
    DigitsActivityDelegate getActivityDelegate() {
        return new PhoneNumberActivityDelegate();
    }
}
```

```
public class PhoneNumberActivity extends DigitsActivity {
    @Override
    DigitsActivityDelegate getActivityDelegate() {
        return new PhoneNumberActivityDelegate();
    }
}
```

Let’s Make Digits Better

contribute https://github.com/twitter/digits-android

Thank You

@rallat