

DEV iO

Introduction to Mobile Development

by Shubham Singh and Aakanksha Shivani

The logo consists of the word "DEV" in blue, "i" in red, and "O" in green.

Aakanksha Shivani

Flutter Developer



@aakanksha_shivani



@akkushivani



@shivaniaakanksha



Shubham Singh

Android Developer



@shubham100ev



@Shubham_100ev



ss100ev@gmail.com





WHAT IS MOBILE DEVELOPMENT

Different Types of Mobile Applications - Native, Hybrid and Web Apps



Native App



Hybrid App



Web App

What are Web Apps?

- 1-Built using HTML/CSS/JavaScript
- 2-Runs inside a browser
- 3-Built like a regular website or web app
- 4-Designed to look good on mobile devices

Advantages

- 1-Easy to built**
- 2-Easy to maintain**
- 3-Use any technology/language**
- 4-Cheaper than native and hybrid apps**
- 5-Single app for all phones**

Disadvantages

- 1-Need to run in a browser**
- 2-Slower than Native app**
- 3-Less interactive**
- 4-NO icon on desktop**
- 5-Cannot be submitted to app store**
- 6-Cannot interact with device utilities**

What are Native Apps?

- 1-Most common type of mobile app**
- 2-Built for specific platforms**
- 3-Built using native programming languages**

Advantages

- 1-Very fast**
- 2-Built to run on specific platform**
- 3-Distributed in app stores**
- 4-Interact with device utilities**

Disadvantages

- 1-Single Platform**
- 2-Very expensive**

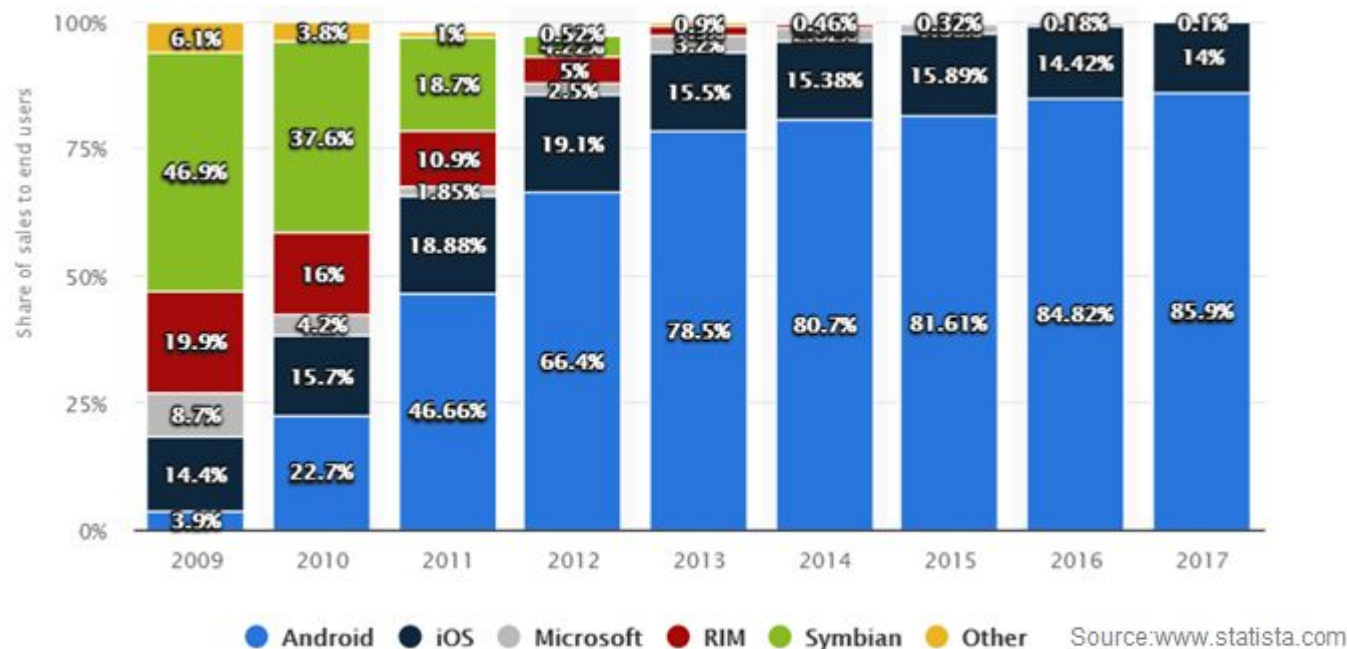
What is Android Development?



ANDROID



Why Android Development ?



Where to start Android Development?



**Android
Studio**



Java™



Kotlin

Which is Better?





Developer Student Clubs

```
public final class User {
    private final String firstName;
    private final String lastName;
    private final int age;

    public User(String firstName, String lastName, int age) {
        this.firstName = firstName;
        this.lastName = lastName;
        this.age = age;
    }

    public String getFirstName() {
        return firstName;
    }

    public String getLastName() {
        return lastName;
    }

    public int getAge() {
        return age;
    }

    @Override public boolean equals(Object o) {
        if (this == o) return true;
        if (o == null || getClass() != o.getClass()) return false;
        User user = (User) o;
        return age == user.age
            && Objects.equals(firstName, user.firstName)
            && Objects.equals(lastName, user.lastName);
    }

    @Override public int hashCode() {
        return Objects.hash(firstName, lastName, age);
    }

    @Override public String toString() {
        return "User{"
            + "firstName='"
            + firstName
            + '\''
            + ", lastName='"
            + lastName
            + '\''
            + ", age="
            + age
            + '\'';
    }
}
```

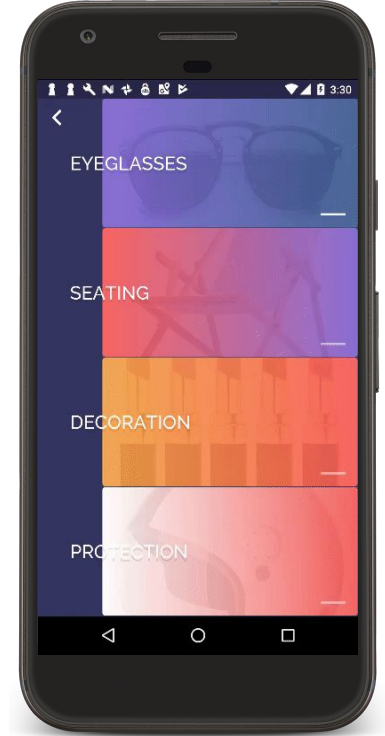
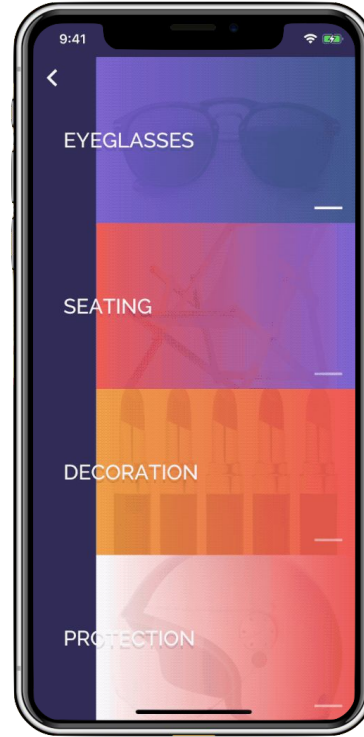


```
data class User(
    val firstName: String,
    val lastName: String,
    val age: Int
)
```



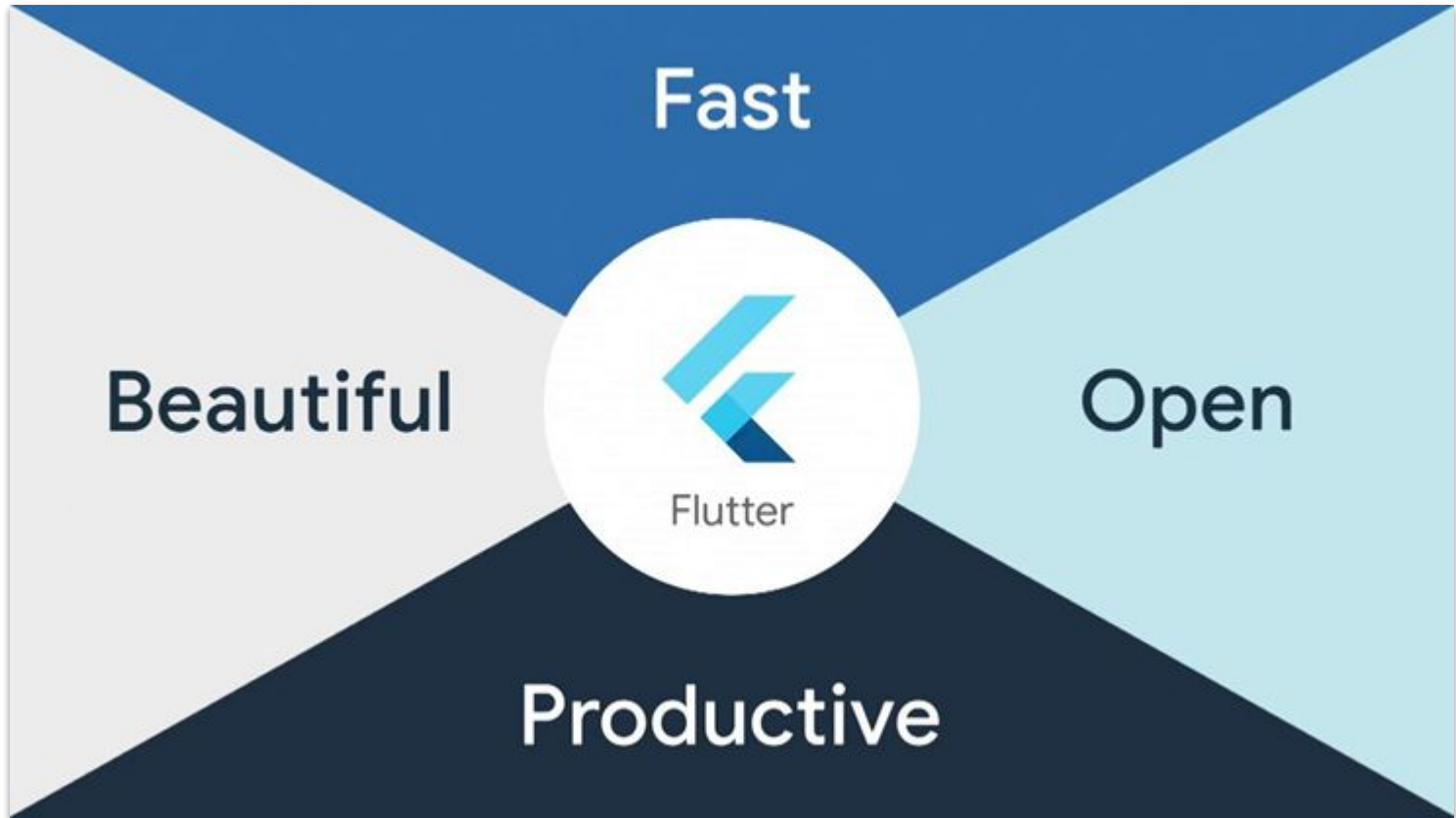
Dart

Flutter is Google's portable UI toolkit for building beautiful, native apps from a single codebase .





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Beautiful

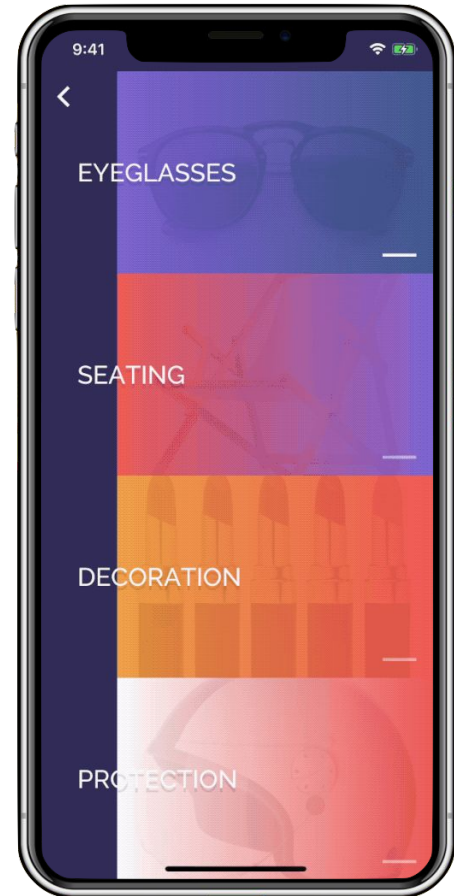
Control every pixel on the screen

Make your brand come to life

Never say "no" to your designer

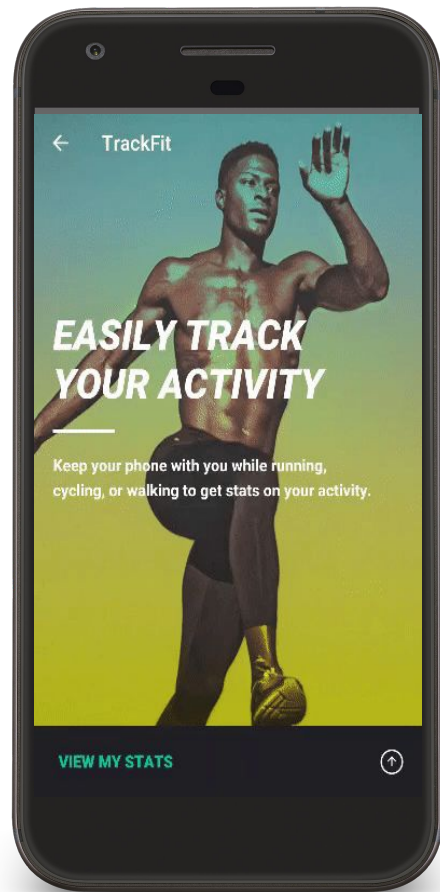
Stand out in the marketplace

Win awards with beautiful UI



Fast

Flutter seamlessly combines user interface widgets with 60fps animated graphics generated in real time, with the same code running on iOS and Android



Productive

Sub-second reload times

Paint your app to life

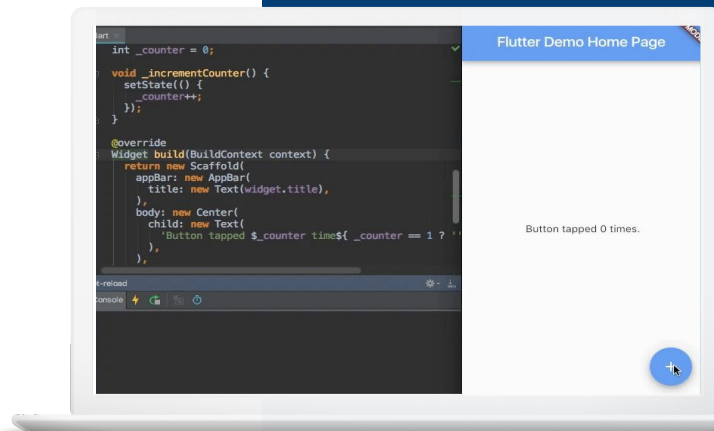
Iterate rapidly on features

Test hypotheses quicker than ever

More time to experiment & test features

Single-codebase for faster collab

3X Productivity Gains



What makes Flutter unique?

No markup language
(only Dart)



Who use Dart?

Google AdWords

Google Fuchsia

Adobe

Google Fiber

**Google internal
CRM**

**Google internal
sales tool**



Works with popular tools and platforms



**Android
Studio**



Xcode



VS Code



Firebase

**3rd-party
Android
SDKs**



**Android
APIs**



iOS APIs



**Material
Design**



Redux

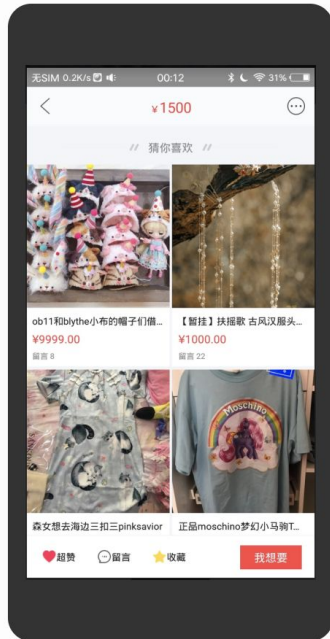
**3rd-party
iOS SDKs**



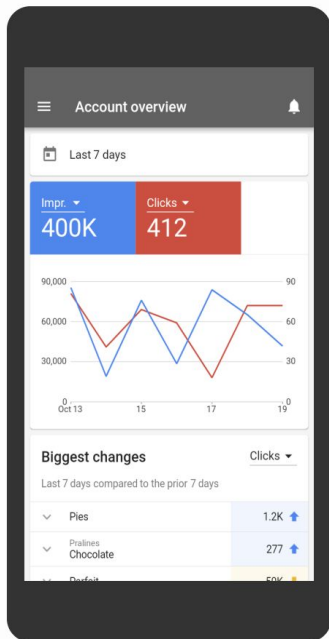
Jacob Kristensen
CPO, Reflectly

Flutter Showcase

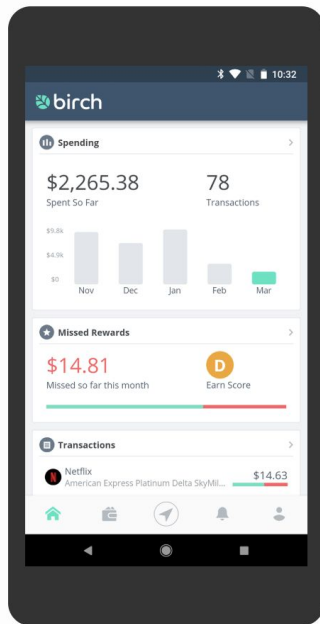
Alibaba



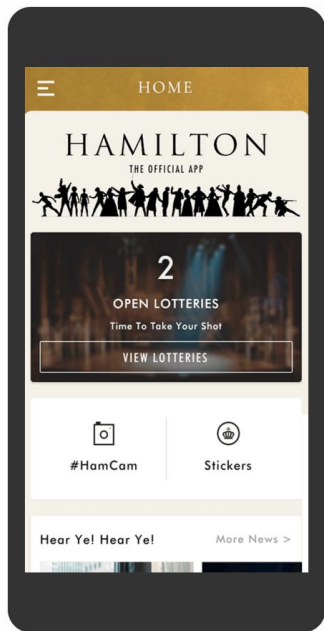
Google AdWords

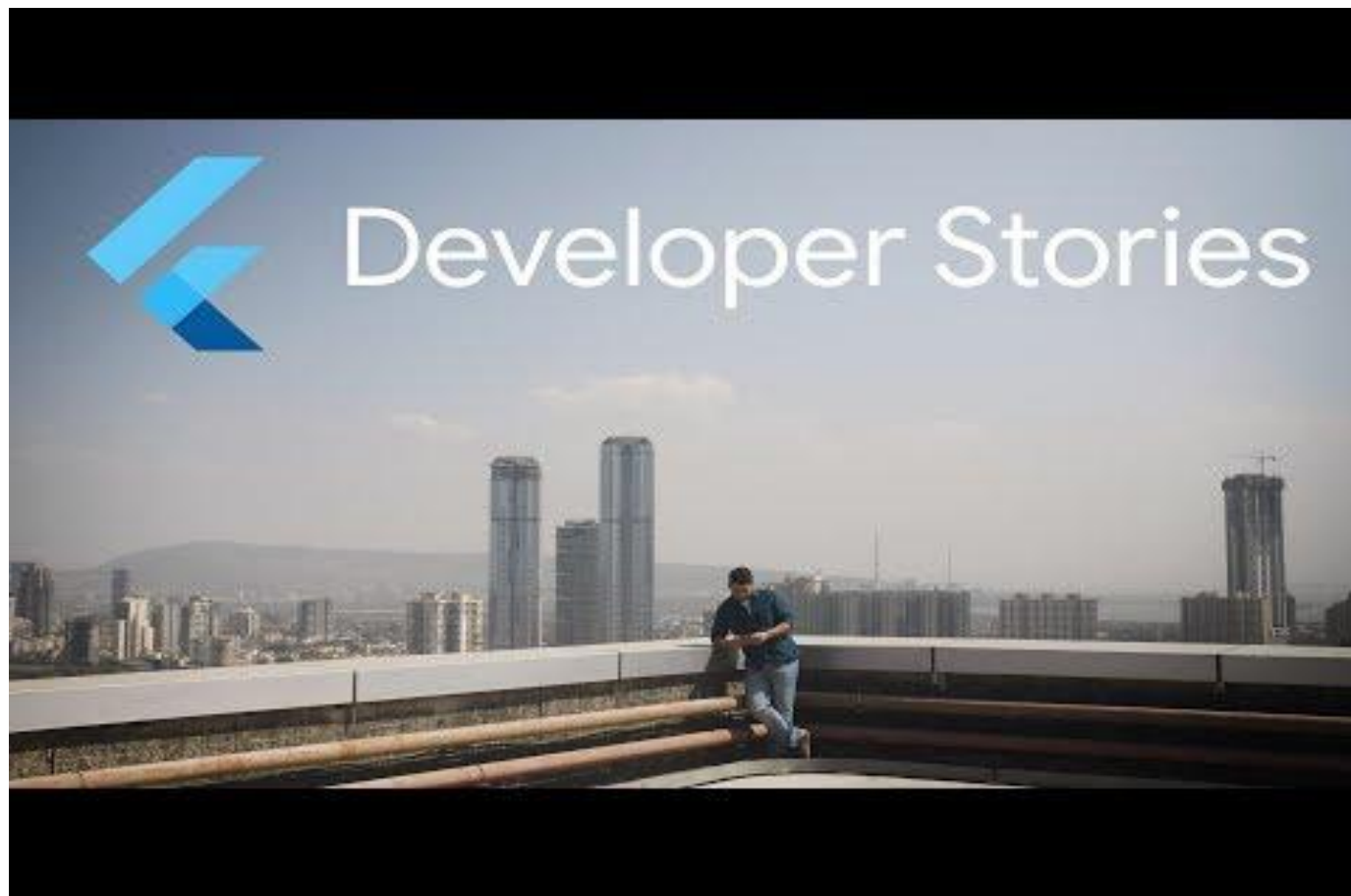


Birch Finance



Hamilton Music





Thank you

Contact us at:



dsckiet@gmail.com



@dsckiet

