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Introduction

I'm Ayesha Aijaz and I'm a student of Software Engineering who has interested in Flutter Language. I'm ardent about creating new mobile applications.

Flutter is my programming language of my choice because of its simplicity, performance, and wide range of applications. I love the fact that flutter is easy to read and write, making it an ideal language for both beginners and experts alike.

As a student of software engineering, I am constantly seeking out new challenges and chance to develop my skills better. I am always to learn about new technologies, and tools that can help me become a better software engineer.

Overview of Flutter

Flutter is an UI toolkit Framework for building mobile, web and desktop application with a single codebase. It is developed by Google in 2018.
Flutter produced natively compiled application from its single code base for Android application, iOS application, web and desktop.
Flutter has tons of pre-built widgets for creating mobile apps. So it is very easy to create app by using flutter.
Due to the simplicity of flutter, it gains popularity day by day. Flutter is supported and used by Google, trusted by well-known brands around the world, and maintained by a community of global developers.

Flutter framework offers the following features to developers:

- Modern and reactive framework.
- Uses Dart programming language and it is very easy to learn.
- Fast development.
- Beautiful and fluid user interfaces.
- Huge widget catalog.
- Runs same UI for multiple platforms.
- High performance application.

Why I Choose Flutter?

I have always been interested of programming & after reviewing different programming languages, I eventually decided to focus on Flutter language.
I choose Flutter as my language bcz it allows unification of app developers into a single mobile, web, and desktop app team, building branded apps for multiple platforms out of a single codebase.
Choosing Flutter, I have the chance to work on different projects. To show my skills on this field. It allowing me to worked on many diff: projects keep learning and growing on this field.

What Pathway I Followed and Grid in Flutter

I started with online resources like watching tutorials, different websites pages. It help me to understand of flutter concepts and syntax. After understanding the flutter, I started making projects in different ways to create apps. I also worked with my friends to create different apps. This help me to build my skills better and gain more valueable experience in working with others.
If someone wants to pursue a career in flutter, I would suggest them to start by learning the basics of flutter. And taking online courses, and online resourse.

Pros & Cons of Flutter

Pros

Stateful hot reload:
Stateful hot reload leads to high developer velocity. Flutter offers an instant UI update when changes are made to the code. This is possible thanks to the just-in-time compiler.

Faster app development:
Cross-platform apps are made much easier with Flutter. Built-in widgets facilitate quicker app development, testing, and issue fixing. Flutter is helpful for fast prototyping and developing an MVP.

Customizable widgets
Almost everything in Flutter — from the layout, to colors, to text, to buttons — is essentially a widget, like components in React. Thus, Flutter comes with a wide array of customizable widgets.

Cons

Emerging framework
Though it’s gaining steam among the cross-platform developer community, Flutter is still an emerging framework. This means there are limited learning resources and a relatively small number of plugins and packages. Flutter takes some time to provide new capabilities as they are added to the iOS and Android platform native SDK.

Smaller Dart community
Compared to JavaScript, there is a relatively small community of developers writing in Dart, the programming language used for building Flutter apps. That means, like the Flutter framework itself, there are limited resources designed to help you learn Dart.

Future Trends of Flutter

One of the main reasons behind flutter setting development trends. Flutter has made development smoother, user-friendly as well as easier to use. In mobile development, it can be used to build applications that work on both Android and iOS. This makes flutter set a new development trend in 2023.

Flutter is expected to improve in 2023 and beyond, with new features and enhancements regularly added. This could include support for new platforms and devices and improved performance and efficiency. Google has already shown its commitment to Flutter, by investing significant resources in its development, and this is likely to continue in **the** coming years.

Thank You