



WEB ENGINEERING

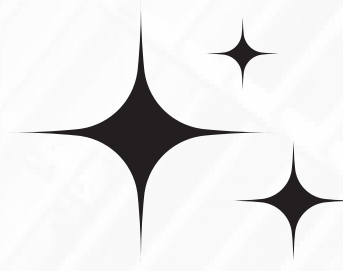
PRESENTATION

BY 19SW104

INTRODUCTION

GET READY TO MEET TOOBA,! AS A FOURTH-YEAR SOFTWARE ENGINEERING STUDENT AT MEHRAN UNIVERSITY, TOOBA'S SKILLS IN FLUTTER, DEVOPS, AND FRONT-END DEVELOPMENT WILL LEAVE YOU IN AWE. HER IMPRESSIVE RESUME INCLUDES COMPLETING TWO INTERNSHIPS - ONE IN FRONT-END DEVELOPMENT ONLINE AND THE OTHER IN DEVOPS AT SQUAREA, SHOWCASING HER EXPERTISE IN THE INDUSTRY.

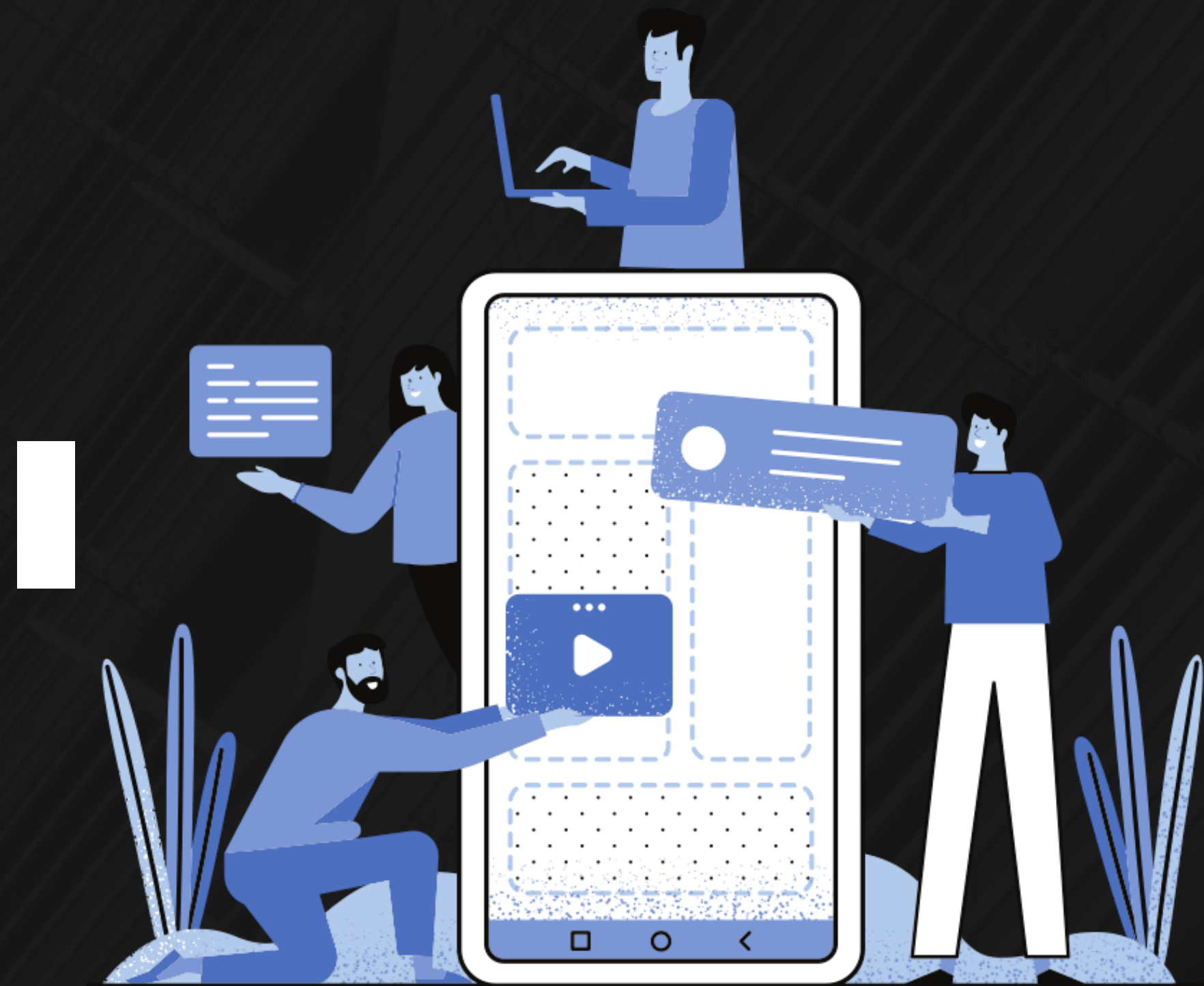
BUT THAT'S NOT ALL - TOOBA'S DEDICATION TO LEARNING AND GROWTH IS DEMONSTRATED THROUGH HER ACTIVE INVOLVEMENT IN EXTRACURRICULAR ACTIVITIES. FROM SERVING AS A JOINT SECRETARY IN SES TO WORKING AS AN OC IN MUETMUN AND VOLUNTEERING IN BIG EVENTS, SHE'S A NATURAL LEADER WHO ALWAYS GOES THE EXTRA MILE.





FIELD OF INTEREST

FLUTTER - MY FIELD OF INTEREST, IS A VERSATILE MOBILE APPLICATION DEVELOPMENT FRAMEWORK CREATED BY GOOGLE THAT ALLOWS FOR FAST, COST-EFFECTIVE, AND HIGH-QUALITY APP DEVELOPMENT FOR MULTIPLE PLATFORMS FROM A SINGLE CODEBASE. IT USES THE DART PROGRAMMING LANGUAGE AND IS KNOWN FOR ITS FAST DEVELOPMENT PROCESS, HOT RELOAD FEATURE, AND CUSTOMIZABLE UI. FLUTTER IS POPULAR FOR STARTUPS AND SMALL BUSINESSES LOOKING TO BUILD APPS QUICKLY AND COST-EFFECTIVELY.





HOW I GET INTO FLUTTER:

I got into Flutter when it was introduced as a subject in my sixth semester. I found it to be very interesting and new, especially the way its UI design was similar to CSS and used the same properties that I had learned during my frontend development studies. This made Flutter easy and enjoyable for me.

After taking the Flutter course in class, I began studying it on my own and started with learning Dart programming language. Then, I followed YouTube tutorials to improve my skills.



WHAT SEEMS FASCINATING



CROSS-PLATFORM DEVELOPMENT:


Flutter allows developers to write code once and use it across multiple platforms, such as Android, iOS, web, and desktop

FAST DEVELOPMENT PROCESS:

Flutter has a fast development process, thanks to features like hot reload, which allows developers to see changes in real-time without having to restart the app

GROWING COMMUNITY

Flutter has a growing community of developers, which means there are plenty of resources available for learning and troubleshooting. The community also contributes to the development of new packages and plugins, which can further enhance Flutter's capabilities.





WHAT SEEMS FASCINATING

SINGLE CODEBASE FOR MULTIPLE PLATFORMS

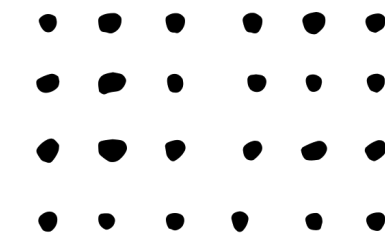
With Flutter, developers can write a single codebase that works for multiple platforms, including iOS, Android, web, and desktop.

EASY INTEGRATION WITH OTHER TECHNOLOGIES

Flutter can be easily integrated with other technologies, such as Firebase and GraphQL, making it a versatile and adaptable framework.



PATHWAY:



LEARN THE BASICS

Start with the official Flutter documentation and get familiar with the basic concepts such as widgets, stateful vs stateless widgets, layout building, and navigation.

BUILD SIMPLE APPS

Start building simple apps like a calculator, weather app, or a to-do list app to practice what i have learned and get comfortable with the development process.

LEARN ADVANCED CONCEPTS

Once I have a good grasp of the basics, move on to more advanced concepts like animations, custom widgets, and platform integration.

JOIN THE COMMUNITY

Join online communities like Flutter Dev, Reddit FlutterDev, and Flutter Community to connect with other developers, learn from their experiences, and get help with any issues you encounter.

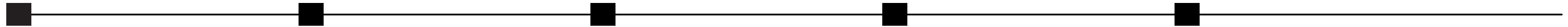
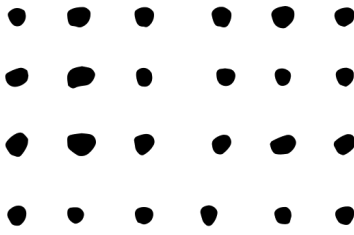
ATTEND MEETUPS AND EVENTS

Attend Flutter meetups and conferences to learn from experts, network with other developers, and stay up-to-date with the latest trends and best practices.





PATHWAY:



CONTRIBUTE TO OPEN SOURCE

Contribute to open source projects to gain more experience, learn from other developers, and improve my coding skills.

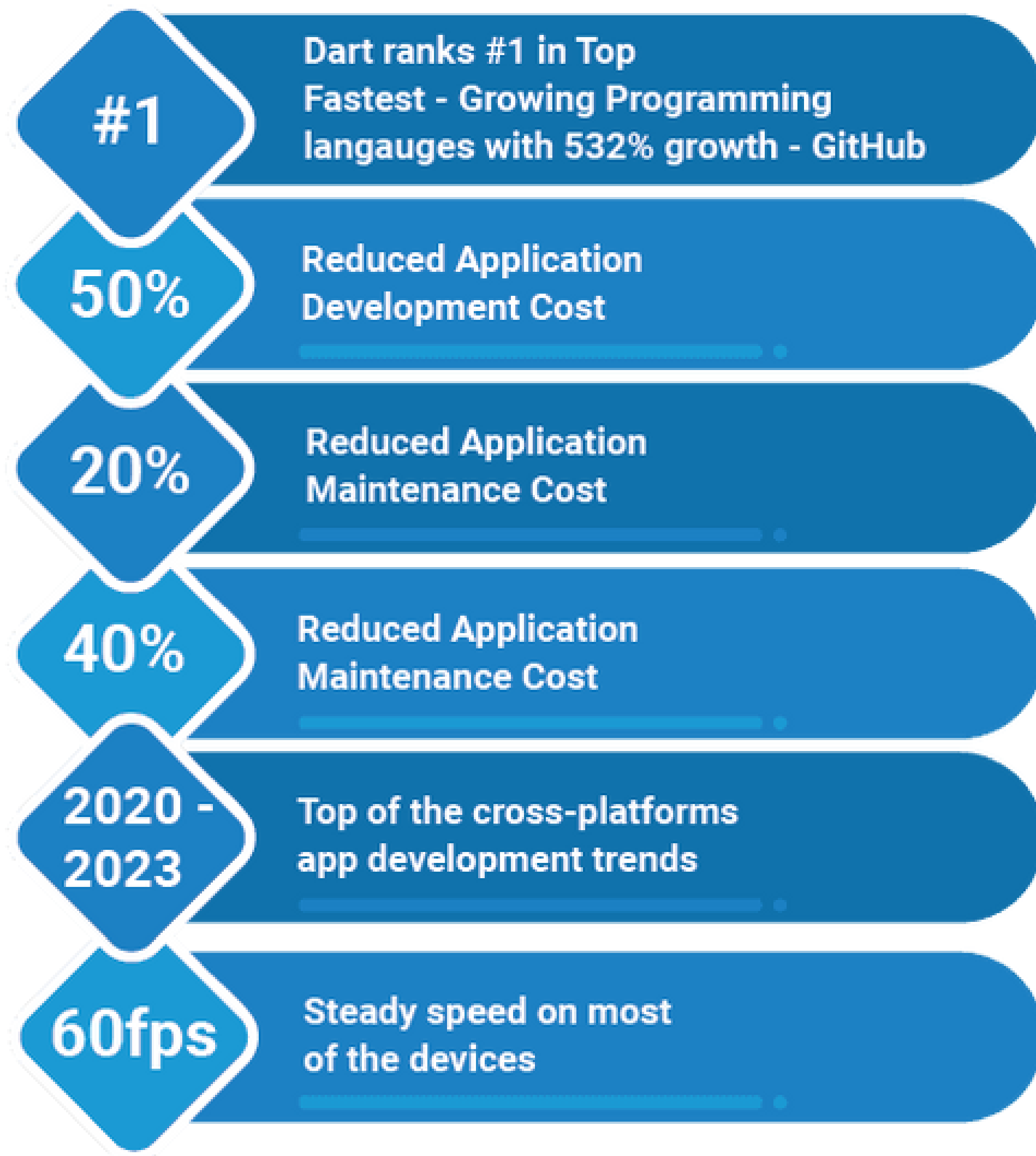
BUILD A PORTFOLIO

Create a portfolio of your Flutter projects to showcase your skills and attract potential clients or employers.





WHY CHOOSE FLUTTER?



GUIDANCE:

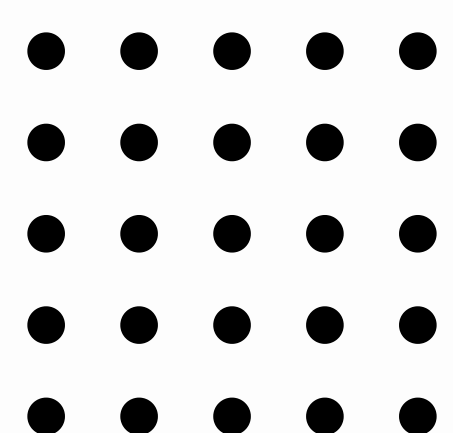
To guide others in learning Flutter, I suggest starting with the official documentation and online resources such as tutorials and videos. It's important to practice regularly and build small projects to gain hands-on experience. Joining the Flutter community, such as attending meetups or participating in online forums, can also provide valuable insights and networking opportunities. As you gain more experience, consider contributing to open-source projects or building your own apps to showcase your skills. Finally, staying up-to-date with the latest updates and advancements in Flutter can help you continue to grow and advance as a developer.





PROS

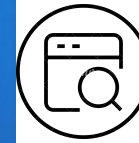
- Flutter allows for fast development and quick iteration through its hot reload feature.
- It uses a single codebase for mobile, web, and desktop apps, which can save time and resources.
- Flutter has a growing community and continuous updates, providing a promising future for mobile app development.
- It offers beautiful and customizable UI elements, making it easy to create visually appealing apps.



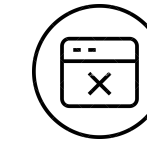


CONS

- Flutter is relatively new compared to other mobile app development frameworks, which means there may be less documentation and resources available.
- Since Flutter uses its own programming language, Dart, developers may need to learn a new language if they are not already familiar with it.
- Flutter may not be the best choice for complex apps with heavy processing requirements due to its reliance on a single-threaded model.



As more companies and developers discover the benefits of using Flutter, it's likely that the framework will become even more widely adopted. This is due to its fast development process, hot reload feature, and the ability to create apps for multiple platforms from a single codebase



The strong and growing Flutter community ensures that there will be ongoing support and updates to the framework, helping to further its development and innovation. All of these factors suggest that Flutter will remain a popular and valuable tool for mobile app development in the years to come.

Future Trends of Flutter

Flutter has a bright future in the world of mobile app development, with many experts predicting its continued growth and popularity

**A Powerful Driver
App Development
of the Future**





THANK YOU

