



FLUTTER & DART

Online Course

navoki.com



Overview

Flutter is a Google's UI toolkit for building beautiful applications for **Android & iOS, Web and Desktop with a Single-Codebase**. There is an increase in demand in Jobs and Internships for Flutter Developers by many Startups.

By the end of this course you can make Android and iOS apps with the help of Android Studio and XCode, and can apply for Internships or Jobs as a Flutter Developer. This course also includes basics to build a Flutter App across platform i.e. 1 app code for Android, iOS, Web, Windows, MacOS, Linux. To know more about Flutter check there official site <https://flutter.dev>

Program : <https://navoki.com/courses/flutter-app-development-bootcamp-online>

After program completion



Able to make Android & iOS apps with Single Codebase



Sync remote data within the app using RestAPI and Firebase

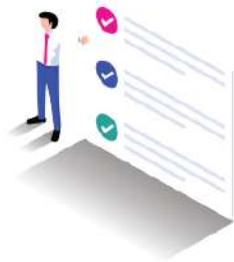


Add 3rd party integration and Make Custom Plugin



Access and use Hardware capabilities to provide user enrich feature apps

Our Programs Include



Technical Mentor Support

We will guide you learning and are focused on answering your questions, motivating you and keeping you on track. Your all coding understanding issues, guide to implement a feature will be covered.



Certificate of Completion

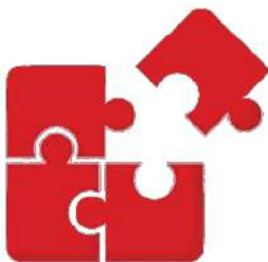


***10 days Refund, if you are not satisfied with our course**



Bonus Lessons

- Make Flutter App for Website, Windows, macOS and Linux
- Put Ads on Mobile Apps
- Firebase Storage
- 3rd party Flutter/Dart Tools to make your development efficient.



Add-On

- 6 Month Mentorship
- 6 months access to lecture videos
- Job Interview Preparation and Assistance to the Students

Classroom Experience



REAL WORLD PROJECTS

Build your skills through industry-relevant projects and experience. You will get personalized feedback from our mentor

ASSIGNMENTS

Real App task will be given to check your understanding of and logics concepts learned



STUDENT HUB

Leverage the power of developer community. Use our Discord Channel to connect with your technical mentor and fellow students in your program

INDUSTRY STANDAD PROJECT REVIEW

Learn coding standard, better approach for development used in companies and get personal feedback



Capstone Project



“WhazzUp”, a Chat and Video call app to connect with friends and family

OR

“Your Own Idea”, make your own app while enrolled in the course and publish it



Projects in this Program



Navoki Notes - a note taking app

Weather App - Show daily weather of your location



InstaQuiz - Realtime quiz with your friends online



WhazzApp - A Chat and Video and Voice call app



Your Instructor



Shivam Srivastava

Mobile Solutions Architect @EnrichAI.com

Founder of Navoki.com

Android, Flutter, Dart (Mobile and Web)

I am a Mobile Developer with a passion for coding and sharing my knowledge with other students and developers. I have also taught many Android(Java) developers. I have created many Flutter mobile apps for many companies and helped many tech companies in solving their unique problems.



<https://www.linkedin.com/in/theshivamlko/>



<https://github.com/theshivamlko>



<https://twitter.com/theshivamlko>



<https://www.youtube.com/navoki>

Contact Us

Shivam Srivastava

Mobile/WhastApp - 7007786354

Email - support@navoki.com

Introduction

- **Introduction to course**
 - Introduction to course and mentorship
 - What is Programming Language
 - Introduction to Dart
 - Introduction to Flutter
- **IDE Setup with Flutter SDK**
 - Setup Dart and Flutter SDK
 - Setup Android Studio IDE
 - Setup VsCode IDE
 - Setup XCode in macOS
 - Hello World Program
 - Understanding Dart

Dart Programming Language

- **Variables**
 - Int, String, double etc.
 - const vs final keyword
 - var and dynamic type
- **Operators**
 - Increment/Decrement
 - Arithmetic, Logical, Relational
 - Other operators
- **Functions**
 - Parameterized, Optional, Anonymous functions etc.
 - Use of "return"
 - Scope and Closures
- **Conditions**
 - if, if-else,
 - if-else-if
 - switch
 - conditional operator

- **Loops**

- for
- for-each
- while
- do-while
- break and continue

- **Class and OOPs Concept**

- Method variables
- Method functions
- Constructors and types
- Polymorphism
- Inheritance
- Type test operator
- Model Class, Typedefs, Enum

- **Collections**

- List and its functions
- Map and its functions
- Understanding Generic Type

- **Error handling**

- Try-Catch
- Custom Exception

- **Asynchronous Execution**

- Synchronous vs Asynchronous
- Future and types
- async, async*, await

- **Comments**

Flutter in Action

- **App 1 - Notes App**

- **Setup Flutter**

- Create New Flutter App
- Understanding Project and its structure
- Run on Android Device and Emulator
- Run on iOS Device and Simulator
- First Screen - Hello World
- Useful Flutter commands

- **What is a Widget ?**

- Stateless vs Stateful Widget
- Hot Reload and Hot Restart
- Lifecycle of Widgets Understanding States of App

- **Debugging App**

- Flutter Inspector
- Debugger
- Logging
- Dart Dev Tools

- **Flutter UI Widgets**

- MaterialApp, Scaffold
- Text and its properties
- Container, Padding
- Row and Column
- Stack, Align and Positioned
- Button Widgets
 - Raised Button
 - InkWell
 - GestureDetector
 - Custom Button

- TextField and Style
 - Validations
 - Handling Keyboard
- AppBar, Style,
- Cupertino Widgets
- Assets, Images and Fonts, Icons
- Images Widget, Local and Network images
- App Themes
- ListView, GridView, DropDown
- Switch, CheckBox, Radio Button
- Progressbar Drawer Menu
- **Slide Navigation**
 - Bottom Navigation
 - Tab View
 - PageView
- **Screen Navigation**
 - Understanding Screen's stack
 - Navigate to different screens
 - Data transfer between screen
- **Dialogs, BottomSheets**
- **Callbacks**
 - VoidCallback
 - Parameter Callbacks
- **Responsive Design**

● **App 2 - Weather App**

- **Custom UI**
 - Managing Child Widget
 - Using Canvas
- **Async Operations**
 - FutureBuilder
 - Streams and StreamBuilder
- **Animation**
- **App Permissions in Android and iOS**
- **Multimedia**
 - Audio Playing local and online
 - Video Playing local and online

- **Accessing Hardware**

- Access Camera and Gallery
- Access Settings of Phone
- Access Phone sensors

- **Packages and Plugins**

- Working with Dart and Flutter Packages
- Make own custom plugin and package
- Basics of Android and iOS Project

- **Local Storage**

- Using Shared Preference Using
- File Read/Write on Internal Storage of Phone
- Using Local DB-SQLite and perform CRUD Operations

- **Networking**

- Understanding HTTP, JSON and Model-Parsing
- Making HTTP Request and showing data in app
- Dynamic UI with Dynamic data
- Perform Data Filter/Sorting

- **Mixin**

- **App 3 - Quiz App**

- **Firestore Authentication**

- Google SignIn, Facebook SignIn
- Phone Number and OTP SignIn
- Anonymous Sign

- **Firestore Notification**

- Setup App for Notification
- Different types of Notification
- Handle Notification Data

- **Firebase Cloud Firestore**
 - Create, Update, Read, Delete data
 - Filter and Sort data
 - Firebase Security Rules
- **Google Maps**
 - Setup Google API Key
 - Show Current Location Show
 - Show Markers on Maps
 - Other Map features (Navigation, Path Making)
- **Payment Gateway**
 - How Payment Gateway works
 - Adding Payment Gateway with a Server
- **Publish on Google Play Store**
 - Prepare requirements for release app.
 - Upload and Publish App on Play Store
- **Publish on Apple App Store**
 - Creating required certificates
 - Prepare requirements for release app
 - Upload on Test Flight
 - Publish App on AppStore

Capstone Project

- **Whazz App**
- **Or Your own IDEA!**

Note:- We cover more content than is mentioned in this document considering the passion and performance of students.

Frequently Asked Questions

- **WHAT JOBS WILL THIS PROGRAM PREPARE ME FOR?**

This program prepares you for an internship, junior Flutter Developer within a wide range of organizations, entrepreneurial start-ups, freelance, and contract projects. We may prepare you for flutter interviews. We don't provide job placement service.

- **WHAT ARE THE PREREQUISITES FOR ENROLLMENT?**

Pre-requisite: Familiar with Computer Science or basic knowledge of programming syntax and its working. We will still teach the basic of Dart programming. All you need is a laptop and a zeal to learn.

- **IS THIS PROGRAM RIGHT FOR ME?**

If you are a programmer or IT student is interested in mastering the Mobile platform and building top-rated Apps in Flutter for Android and iOS, this is the program for you. If you are new to programming, we will teach you the basics of programming.

- **HOW TO ENROLL IN?**

Visit the site <https://navoki.com> and pay the total amount online and enrol in the Course. Payment is included with all applicable charges (tax, payment gateway charges, etc.)

- **HOW LONG IS THIS PROGRAM?**

Visit the site <https://navoki.com> to know the duration of the program. Time may vary if it covers more topics and solve student's queries.

- **MINIMUM REQUIREMENT OF FLUTTER DEVELOPMENT**

System Requirement min. specs:

<https://developer.android.com/studio#system-requirements-a-namerequirementsa>

Software links will be provided in the course. You may use the emulator in Android Studio to run your apps if you do not have a physical Android device, but an Android device is recommended.

- ***WHAT IS 7 DAYS REFUND POLICY?**

If our course is providing a refund offer and if you didn't like our course, you could ask for a refund at support@navoki.com before mentioned days. For example, if you apply for the course(10 days refund option) on 1 Jan 2021, you can ask refund till 7 Jan 2021 23:59:59; after this time, the refund for the course will not be initiated. Also, charges like Payment Gateway, Credit Card charges, Bank Charges etc., deducted during payment on navoki.com will not be refunded.

- **WHERE CLASSES WILL BE TAKEN ?**

Classes will be held online on video conferencing software. After each class, you will get a recorded session and other study materials to refer to content later.

- **HOW THIS PROGRAM IS STRUCTURED?**

Flutter course comprises content and curriculum required by the industry that an employee should know. These topics in the syllabus are essentials to learn and apply on l to support 4 projects, multiple exercises in 2 hours of class for 90 days.

- **HOW MENTORSHIP WORKS?**

If you have any queries during the course, you can ask them on Discord Channel. Mentor will provide the solution in 24-72 hours. Some issues might require some research and extra effort for a solution and will take time to reply.

- **IS PROJECT REVIEW NECESSARY?**

YES, mentor will check your projects code and feature. After successfully approving all projects by mentor you can receive your certificate.

- **NEED MORE HELP?**

Contact use at support@navoki.com or chat with us on navoki.com. Please provide you Email and Phone number to contact you. Know more at <https://navoki.com/privacy-policy/>