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Project Name: Guides and Tutorials
Following are the details of working from 19/Oct/2020 to 31/Dec/2020.

Day: 1 Date: 19/Oct/2020 Work Description: - Implemented singletop application class and aslo implemented class to check app is in background or forground in kotlin.
Day: 2 Date: 20/Oct/2020 Work Description: - Update android studio and plugins in office system. , - Implemented custom views for kotlin and also resolve issue of latest gradle sync.
Day: 3 Date: 26/Oct/2020 Work Description: - Rewise opps concepts examples of kotlin. , - Configure flutter tools.
Day: 4 Date: 27/Oct/2020 Work Description: - Configure emulator and created test app. , - Learned about how to create flutter apps from scratch.
Day: 5 Date: 28/Oct/2020 Work Description: - Learning about how to build beautiful UIs with flutter widget. , - Learned about how to build beautiful UIs with flutter widget and also implemented demo for it.
Day: 6 Date: 29/Oct/2020 Work Description: - Learned about dice building app with state in flutter. - Learned about boss level challenge magic ball in flutter. , - Learning about Xylophone - using flutter and dart packages to speed up development.
Day: 7 Date: 31/Oct/2020 Work Description: - Learning about Quizzler - modularising & organizing flutter code. , - Learned about Quizzler - modularising & organizing flutter code with demo.
Day: 8 Date: 02/Nov/2020 Work Description: - Implemented demo of boss level challenge 2 for flutter. , - Learned about how to use flutter theme, how to refactor flutter widget & final vs const with demo implementation.
Day: 9 Date: 03/Nov/2020 Work Description: Learned below topic with demo implementation: - Creating custom flutter widget. - The GestureDetector widget. - Enums - Ternary Operator , Learned below topic with demo implementation: - functions as first order objects. - The flutter slider widget. - Customising widget with theme. - Composition vs Inheritance - building flutter widgets from scrtch.
Day: 10 Date: 04/Nov/2020 Work Description: Learned below topic with demo implementation: - Multi-screen app using routes and navigation. - Maps - Designing the result page. - Adding BMI calculator functionality. , Learned below topic with demo implementation: - Getting location data from across platforms. - Futures, Async & Await. - Stateful widget lifecycle methods
Day: 11 Date: 05/Nov/2020 Work Description:

Learned below topic with demo implementation: - Exception handling and null aware operator. - Async/await challenge. - Application Programming Interfaces (APIs) explained. - Networking in flutter apps with the HTTP package. - JSON parsing and dynamic types. , Learned below topic with demo implementation: - Getting actual weather data from OpenWeatherMap API. - Showing a spinner while the user waits. - Passing data to a state object. - Updating the weather with the WeatherModel

Day: 12 Date: 06/Nov/2020

Work Description:

Learned below topic with demo implementation: - Refactoring the location methods - Creating and styling a TextField widget for text entry. - Passing data backwards through the navigation stack. , Learned below topic with demo implementation: - The material DropDownButton widget. - [Dart] Loops. - Building widgets with Loops solution. - Introducing Cupertino widgets. - Building platform specific UI (iOS & Android). - Implemented boss level challenge 3 - Bronze medal

Day: 13 Date: 07/Nov/2020

Work Description:

Learned below topic with demo implementation: - Implemented boss level challenge 3 - Silver medal - Implemented boss level challenge 3 - Gold medal , Learned below topic with demo implementation: - [Dart] Static modifier - Refactor routes with static const - Flutter hero animations - Custom flutter animations with the animation controller

Day: 14 Date: 09/Nov/2020

Work Description:

Learned below topic with demo implementation: - [Dart] Mixins - Prepackaged flutter animations - Code refactoring challenge - Creating a new firebase project - Potential problem when incorporating firebase - Android firebase project setup - iOS firebase project setup , Learned below topic with demo implementation: - Firebase flutter package setup (iOS & Android) - Registering users with firebase using FirebaseAuth - Authenticating users with FirebaseAuth - Showing a spinner while the user waits

Day: 15 Date: 10/Nov/2020

Work Description:

Learned below topic with demo implementation: - Saving data into cloud firestore - Listening for data from firebase using streams - [Dart] Streams - Turning stream into widgets using the StreamBuilder , Learned below topic with demo implementation: - The flutter ListView - A different UI for different senders - Cloud Firestore Authorisation and Security Rules

Day: 16 Date: 11/Nov/2020

Work Description:

Learned below topic with demo implementation: - Designing the To-Do List App. - The ListView challenge. - The BottomSheet widget. - Positioning the BottomSheet above the Keyboard. , Learned below topic with demo implementation: - What is state and how do we manage it? - how do Callback work in dart? - The ListView Builder. - Lifting state up challenge.

Day: 17 Date: 12/Nov/2020

Work Description:

Learned below topic with demo implementation: - Flutter app architecture pattern - Introducing the provider package - Using a Provider and ChangeNotifier to manage state , Learned below topic with demo implementation: - Adding new To-Do List tasks - Checking off To-Do List tasks - Deleting tasks using the Provider Design Pattern

Day: 18 Date: 13/Nov/2020

Work Description:

- Rewrite flutter concepts. , - Rewrite flutter concepts.

Day: 19 Date: 19/Nov/2020

Work Description:

- Learned about navigation drawer and also implemented demo for it. , - Reading cookbook documentation

for a flutter app development.

Day: 20 Date: 20/Nov/2020

Work Description:

- Learned about flutter tabbar and bottom navigationbar. , - Learned about flutter animations.

Day: 21 Date: 21/Nov/2020

Work Description:

Learned about flutter lists. , - Learned about list with different type of item and long list.

Day: 22 Date: 23/Nov/2020

Work Description:

- Learned about form validation and snackbar. , Learned about floating appbar with list and revising flutter concepts.

Day: 23 Date: 24/Nov/2020

Work Description:

Learned about how to capture image in flutter. , - Learned about video player in flutter.

Day: 24 Date: 25/Nov/2020

Work Description:

Learned about the below points in a flutter: - Read and write files - Store key-value data on disk , - Learning about the SQLite database in a flutter.

Day: 25 Date: 26/Nov/2020

Work Description:

- Implemented demo of SQLite database in a flutter. , - R&D about SQLite queries in a flutter.

Day: 26 Date: 27/Nov/2020

Work Description:

Learned below concepts in Flutter: - Delete data on the internet - Fetch data from the internet - Make authenticated requests - Parse JSON in the background - Send data to the internet - Update data over the internet , - Learned about WebSocket and also implemented a demo for it in a flutter.

Day: 27 Date: 28/Nov/2020

Work Description:

- Learned JSON and Serialization in a flutter. , R&D about Retrofit in a flutter.

Day: 28 Date: 30/Nov/2020

Work Description:

Learned below topic: - An introduction to unit testing - Mock dependencies using Mockito , Learned below topic: - An introduction to widget testing - Find widgets - Tap, drag, and enter text

Day: 29 Date: 01/Dec/2020

Work Description:

- R&D about custom widgets in a flutter. ,