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Project Name: Guides and Tutorials

Following are the details of working from 01/Nov/2020 to 30/Nov/2020.

Day: 1 **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: 2 **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 scretch.

Day: 3 **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: 4 **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 frome OpenWeatherMap API. - Showing a spinner while the user waits. - Passing data to a state object. - Updating the weather with the WeatherModel

Day: 5 **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 backwords 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: 6 **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: 7 **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: 8 **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: 9 **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: 10 **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: 11 **Date:** 13/Nov/2020

Work Description:

- Rewise flutter concepts. , - Rewise flutter concepts.

Day: 12 **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: 13 **Date:** 20/Nov/2020

Work Description:

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

Dav: 14 **Date:** 21/Nov/2020

Work Description:

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

Day: 15 **Date:** 23/Nov/2020

Work Description:

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

Day: 16 **Date:** 24/Nov/2020

Work Description:

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

Dav: 17 **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: 18 **Date:** 26/Nov/2020

Work Description:

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

Day: 19 **Date:** 27/Nov/2020

Work Description:

Leaned 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: 20 **Date:** 28/Nov/2020

Work Description:

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

Day: 21 **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