

Open Source Task #3 (Flutter Development)

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1. Create a simple BMI calculator app using flutter framework.

The BMI Calculator is an easier tool to help estimate body fat. It is also good amount measure of patients' risk of heart diseases that occur with more body fat. The higher your BMI, the higher your risk of obesity-related disease. You should get the weight and height of a person, and calculate the BMI of a person and display it either in the bottom navigation drawer or of your wish. You can make the UI very attractive using your creative design skills.

References:

- 1. https://www.kindacode.com/article/write-a-simple-bmi-calculator-with-flutter/
- 2. https://github.com/cool-man-vk/BMI-calculator
- 3. https://www.codementor.io/@nitishk72/flutter-bmi-calculator-app-1dlnjlhy6e

2.Create an authentication app using firebase to let users create, login, and also signout functionalities.

Firebase is a platform developed by Google for creating mobile and web applications and it is a NOSQL database. You can add some form validations to maintain the entered data to be correct. You can use **firebase_auth** and **firebase_core** packages or any other firebase flutter packages to interact with the firebase console. You should also add **verify_email** option to verify whether a user has entered the correct email address before proceeding.

References:

- 1. https://blog.logrocket.com/implementing-firebase-authentication-in-a-flutter-app/
- 2. https://www.youtube.com/watch?v=zpbyJ7GVMVU

3.Create a todo app with standard state management in flutter and create an attractive user interface to enhance the readability.

Todo apps have always been a good first app for developers to learn something new. The task should also have the option to edit and delete whenever needed ,and also marked as completed whenever the task is completed.

References:

- 1. https://morioh.com/p/c3d937845510
- 2. https://www.youtube.com/watch?v=YyE4xHMA63Y

(Optional)

4.Create a mobile application which displays the basic weather information based on user location.

Ram is coming to his home from Chennai .The weather is dawn in Chennai .He is thinking whether he could reach safe to his native town Hyderabad. So in order to know the weather change in his area ,create a mobile app to display the weather information.

References:

- 1. https://www.youtube.com/watch?v=AmHAWc6Y_xk
- 2. https://www.youtube.com/watch?v=KARSo1nMxp4