



Measurements Project Report

From :

Name : رؤى ايمن رمزى محمد جاويز

Sec : 2

Code : 20812019200448

To :

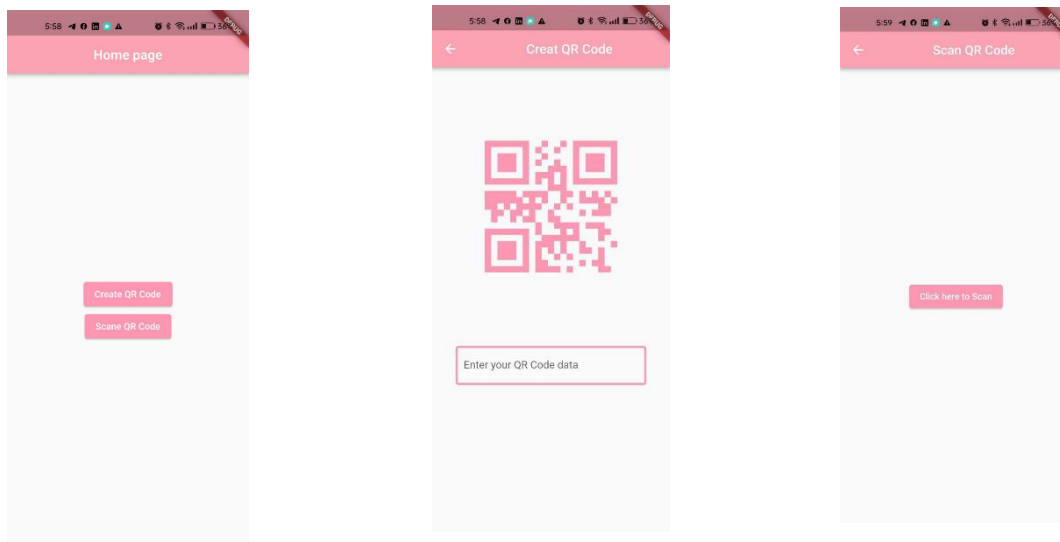
Dr. Osama El-Ghonimy
Eng. Hesham Abdullah

Application Description:

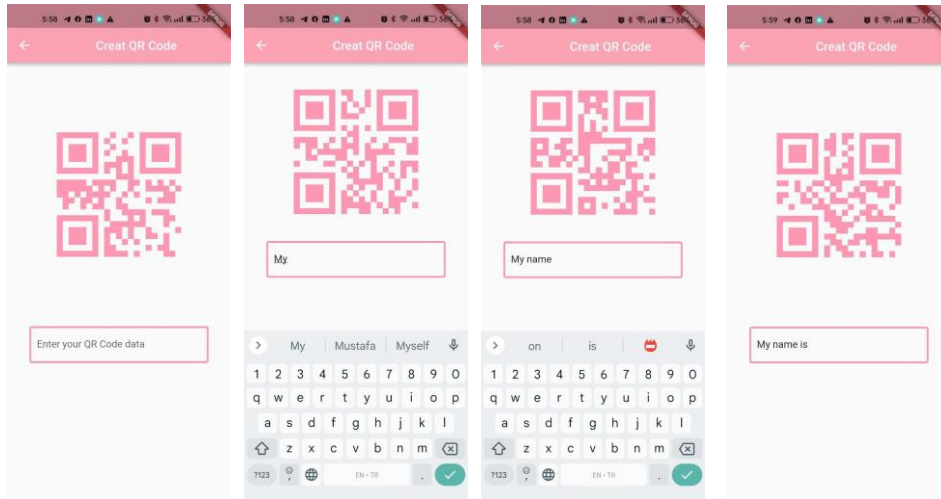
I developed a **"QR Code"** application using [Flutter](#) and android studio .

My application has two functions: Create qr code and Scan qr code .

The application has three screens - pages :

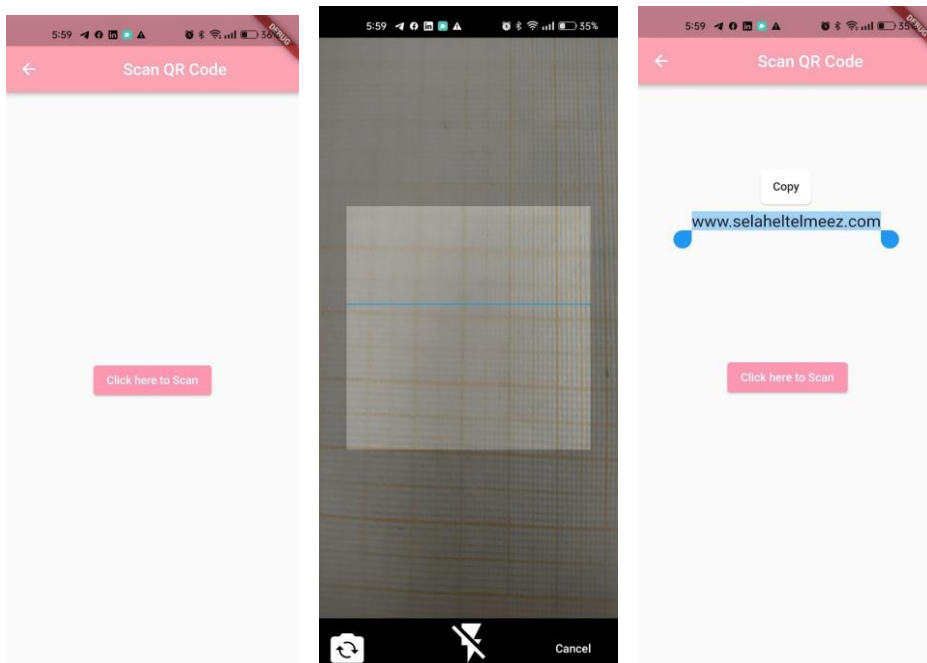


- **Home Screen :**
This screen contains two buttons [**Create QR Code**] , [**Scan QR Code**] . Each button on clicked , take me to new screen .
- **Creat QR Code Screen :**
This screen contains a qr code widget and a text filed to write my qr code data in . The qr code widget changes as I type the data in the text filed .
 - Notice the changes in the code while typing the data.



- **Scan QR Code Screen :**

This screen contains a button [[Click here to Scan](#)] which open the camera (my sensor) and scan the qr code , then show the result data of the scanned qr code as a text and I can copy it and then open it at any browser .



Code analysis :

I start building the application with flutter by following some steps and implementing the widgets { statelesswidget , statefulWidget , MaterialApp , Scaffold , appBar , ElevatedButton , Textfiled , ... }

I also used two flutter packages : 'Flutter_barcode_scanner 2.0.0' and 'barcode_widget 2.0.3' , to access the android sensor and to create and scan the qr codes .

```
Navigator.of(context).push(MaterialPageRoute(builder:(context)=>CreatQRScreen()));
```

This code line is used to navigate between the different screens .

```
Future<void> scan() async {  
  try {  
    FlutterBarcodeScanner.scanBarcode('#2A99CF', 'Cancel', true, ScanMode.QR)  
      .then((value) {  
        setState(() {  
          qrData = value;  
        });  
      });  
  } catch (e) {  
    setState(() {  
      qrData = 'Error!';  
    });  
  }  
}
```

This function was written to control the scanner screen and give back the value of the scanned data to be shown in the application .