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I C T D e p a r t m e n t

រចនា App ដោយប្រើ Scaffold, AppBar, Drawer, BottomAppBar, SnackBar និង Body
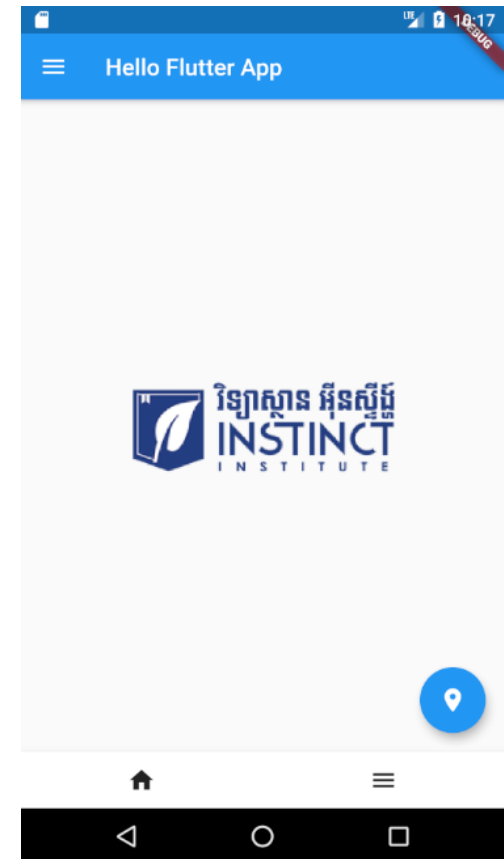
Instructor: **Oum Saokosal**, *Master of Engineering in Information Systems, South Korea '2010*

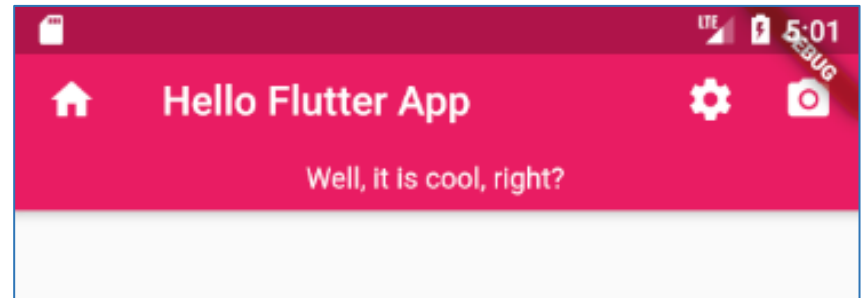**Email:** oumsaokosal@gmail.com

Phone: 012 252 752 (Telegram)

- Scaffold គឺជា class មួយដែលផ្តល់ APIs សំរាប់បង្ហាញ

    - appBar
    - drawer
    - bottomNavigationBar
    - floatingActionButton
    - body

```
return MaterialApp(
    home: Scaffold(
      appBar: AppBar(title: Text("Hello Flutter App"),),
      drawer: Drawer(),
      floatingActionButton: FloatingActionButton(
        onPressed: (){},
        child: Icon(Icons.place),
      ),
      body: Container(
        alignment: Alignment.center,
        child: Image.network("http://bit.ly/2IGluzb"),
      ),
      bottomNavigationBar: BottomAppBar(
        child: Row(
          mainAxisAlignment: MainAxisAlignment.spaceAround,
          children: <Widget>[
            IconButton(icon: Icon(Icons.home), onPressed: (){},),
            IconButton(icon: Icon(Icons.menu), onPressed: (){},),
          ],
        ),
      ),
    ),
  );
```
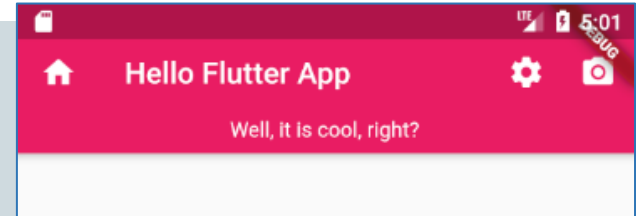
- Property សំខាន់ៗ របស់ appBar:
  - ❖ leading
  - ❖ title
  - ❖ actions
  - ❖ bottoms

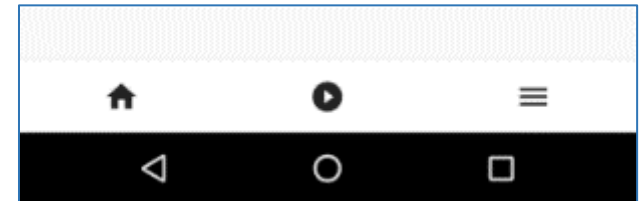```
appBar: AppBar(

        backgroundColor: Colors.pink,

        leading: IconButton(icon: Icon(Icons.home),
                    onPressed: (){},),

        title: Text("Hello Flutter App"),

        actions: <Widget>[

          IconButton(icon: Icon(Icons.settings), onPressed: (){},),

          IconButton(icon: Icon(Icons.camera_alt), onPressed: (){},),

        ],

        bottom: PreferredSize(

          preferredSize: Size.fromHeight(20.0),

          child: Padding(

            padding: const EdgeInsets.all(8.0),

            child: Text("Well, it is cool, right?", style: TextStyle(color: Colors.white),),

          ),

        ),

      ),
```
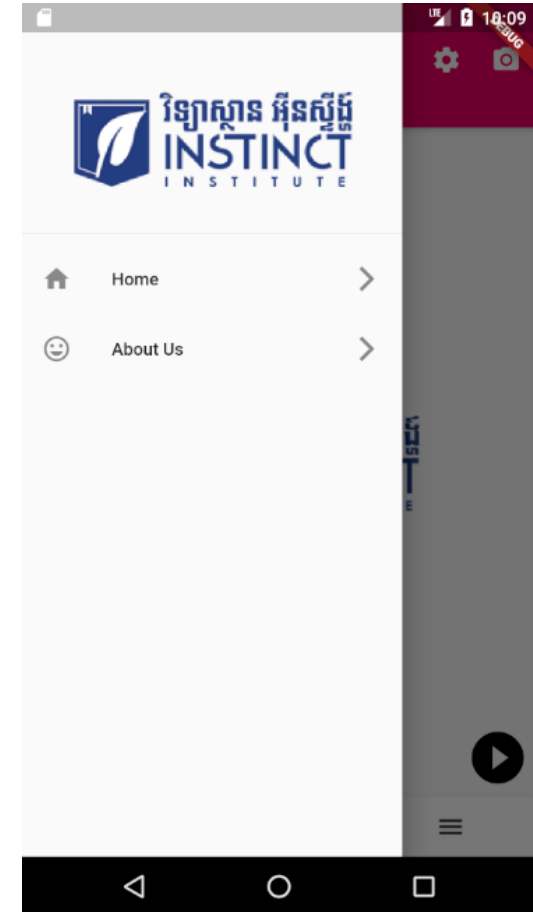
- bottomNavigationBar ប្រើ BottomAppBar សំរាប់បង្ហាញ menu នៅផ្នែកខាងក្រោម។

```
bottomNavigationBar: BottomAppBar(
        child: Row(
          mainAxisAlignment: MainAxisAlignment.spaceAround,
          children: <Widget>[
            IconButton(icon: Icon(Icons.home),
              onPressed: (){},),
            IconButton(icon: Icon(Icons.play_circle_filled),
              onPressed: (){},),
            IconButton(icon: Icon(Icons.menu),
              onPressed: (){},),
          ],
        ),
      ),
```
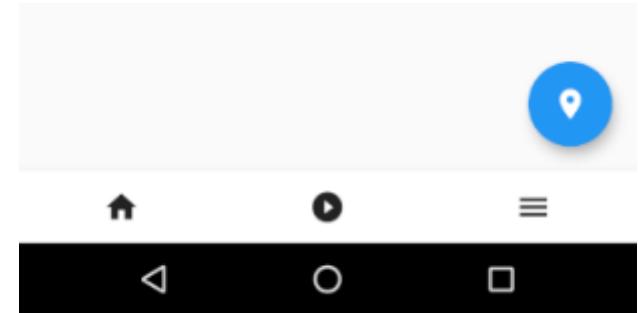
- drawer: (បកប្រែថាៈ ថតតុ) វាជា menu ដែលយើងទាញចេញពីខាង
ឆ្វេង ឬខាងស្ដាំនៃApp។

```dart
drawer: Drawer(
    child: ListView(
      children: <Widget>[
        DrawerHeader(
          child: Image.network("http://bit.ly/2IGluzb"),
        ),
        ListTile(
          leading: Icon(Icons.home),
          title: Text("Home"),
          trailing: Icon(Icons.arrow_forward_ios),
        ),
        ListTile(
          leading: Icon(Icons.insert_emoticon),
          title: Text("About Us"),
          trailing: Icon(Icons.arrow_forward_ios),
        ),
      ],
    ),
  ),
```

- floatingActionButton គឺជា button មួយដែលវាមានទំរង់ជា លក្ខណៈ button អណ្តែតពីលើផ្ទៃ App។

```
floatingActionButton: FloatingActionButton(
        onPressed: (){},
        child: Icon(Icons.place),
    ),
```
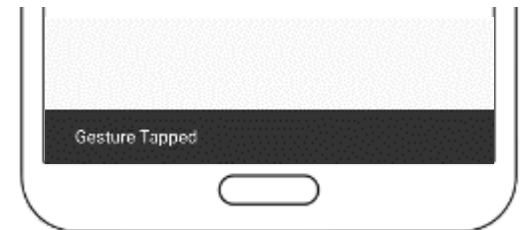
SnackBar គឺជា Message ទំនើបម្មួយរបស់ Material Design គឺវាផុសចេញពីផ្នែកខាង ក្រោមនៃ App រយៈម្មួយភ្លែតហើយក៏បាត់ទៅវិញៗ

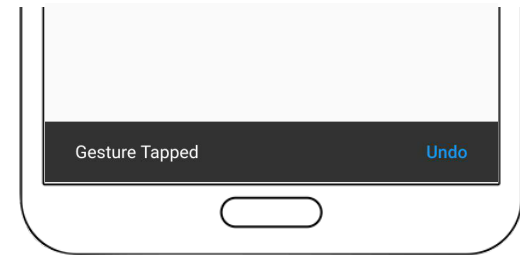Property:

- Content

- Action

- BackgroundColor

- Duration

```
SnackBar(
        content:  Text("Gesture Tapped"),
    );
```

```
final snackBar = SnackBar(
        content: Text("Gesture Tapped"),
        duration: Duration(milliseconds: 5000),
        action: SnackBarAction(label: "Undo",
            onPressed: ()=>debugPrint("Undo Click")),
    );


Scaffold.of(context).showSnackBar(snackBar);
```
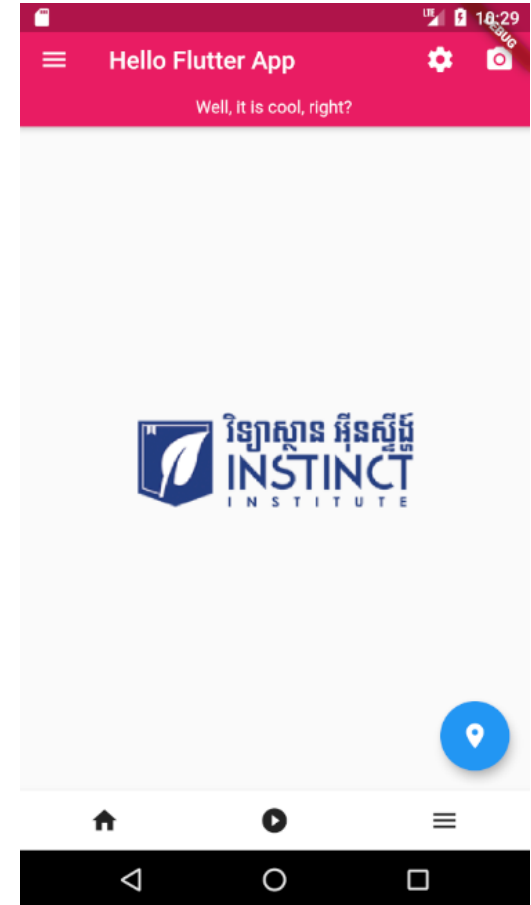

បើចង់បង្ហាញ SnackBar ដោយមិនប្រើ Context:

```
final _scaffoldKey = new GlobalKey<ScaffoldState>();
void showInSnackBar(String value) {
    _scaffoldKey.currentState.showSnackBar(
        new SnackBar(content: new Text(value)));
}
```

```
@override
Widget build(BuildContext context) {
    return new Scaffold(
    key: _scaffoldKey,
    body: Container()
```

- body property: គឺស្ថិតចំកណ្តាលនៃ App។ វាអនុញ្ញាតិអោយយើងប្រើ Widget អីក៏បាន។

```
body: Container(
          alignment: Alignment.center,
          child: Image.network("http://bit.ly/2IGluzb")),
```

```
body: Container(
        alignment: Alignment.center,
        child: SingleChildScrollView(
          child: Column(
            children: <Widget>[
              Container(
                  alignment: Alignment.center,
                  child: Image.network("http://bit.ly/2IGluzb")),
              Padding(
                padding: const EdgeInsets.all(20.0),
                child: Text("Contact: 023 655 6168",
                  style: TextStyle(fontSize: 20.0, color: Colors.red),),),
              ),
              Padding(
                padding: const EdgeInsets.only(top: 5.0, bottom: 5.0),
                child: Text("https://www.instinct-edu.org",
                  style: TextStyle(fontSize: 20.0, color: Colors.blue),),),
              ),
            ],
          ),
        ),
      ),
```