

Mobile Computing Lab 10: Write a Program to demonstrate simple Animation in Flutter

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Code:

(pubspec.yaml)

```
name: super_simple_hero_animation
description: Super Simple Hero Animation
version: 1.0.0+1

environment:
  sdk: ">=2.7.0 <3.0.0"

dependencies:
  flutter:
    sdk: flutter

flutter:
  uses-material-design: true
```

(main.dart)

```
import 'package:flutter/material.dart';
```

```
import
'package:super_simple_hero_animation/home_page.dart';

void main() {
  runApp(MyApp());
}

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      home: HomePage(),
    );
  }
}
```

(home_page.dart)

```
import 'package:flutter/material.dart';
import
'package:super_simple_hero_animation/detail_page.dart';

class HomePage extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(title: Text("Super Simple
Hero Animation")),
      body: ListView.builder(itemBuilder:
(context, index) {
      return ListTile(
        leading: CircleAvatar(
          child: ClipOval(

```

```
        child: Hero(
            tag: "avatar-$index",
            child:
Image.network("https://picsum.photos/seed/$index/800"),
        ) ,
    ) ,
),
),
title: Text("Item #$index"),
onTap: () => _openDetail(context,
index),
);
} ),
);
}
}

_openDetail(context, index) {
final route = MaterialPageRoute(
builder: (context) => DetailPage(index:
index),
);
Navigator.push(context, route);
}
}
```

```
import 'package:flutter/material.dart';

class DetailPage extends StatelessWidget {
final int index;

const DetailPage({this.index});

@Override
Widget build(BuildContext context) {
return Scaffold(
body: CustomScrollView(
```

```
slivers: <Widget>[  
    SliverAppBar(  
        expandedHeight: 300,  
        flexibleSpace: FlexibleSpaceBar(  
            title: Text("Item #\$index"),  
            background: Hero(  
                tag: "avatar-\$index",  
                child: Image.network(  
                    "https://picsum.photos/seed/\$index/800",  
                    fit: BoxFit.cover,  
                ),  
            ),  
        ),  
    ),  
],  
) ,  
) ;  
}  
}  
}
```

Output:

