



Flutter Navigation and Routing while Passing Data Between Screens



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Course Overview

- Why **Navigation** is an Important topic
- Understand the concept of a Navigation **Stack**
- Explore the **Starter Project**
- Learn the fundamental **basic way** of navigation
- Use of **named routes** to enhance navigation organization and efficiency
- Pass data while navigating using **constructor** method
- Pass data using the **argument** method in Named routes
- **Returning data** while navigating back



Understanding the **Fundamentals** of Navigation



Why **Navigation** is an Important Topic ?



COURSES

HOME

LOGIN

COURSES



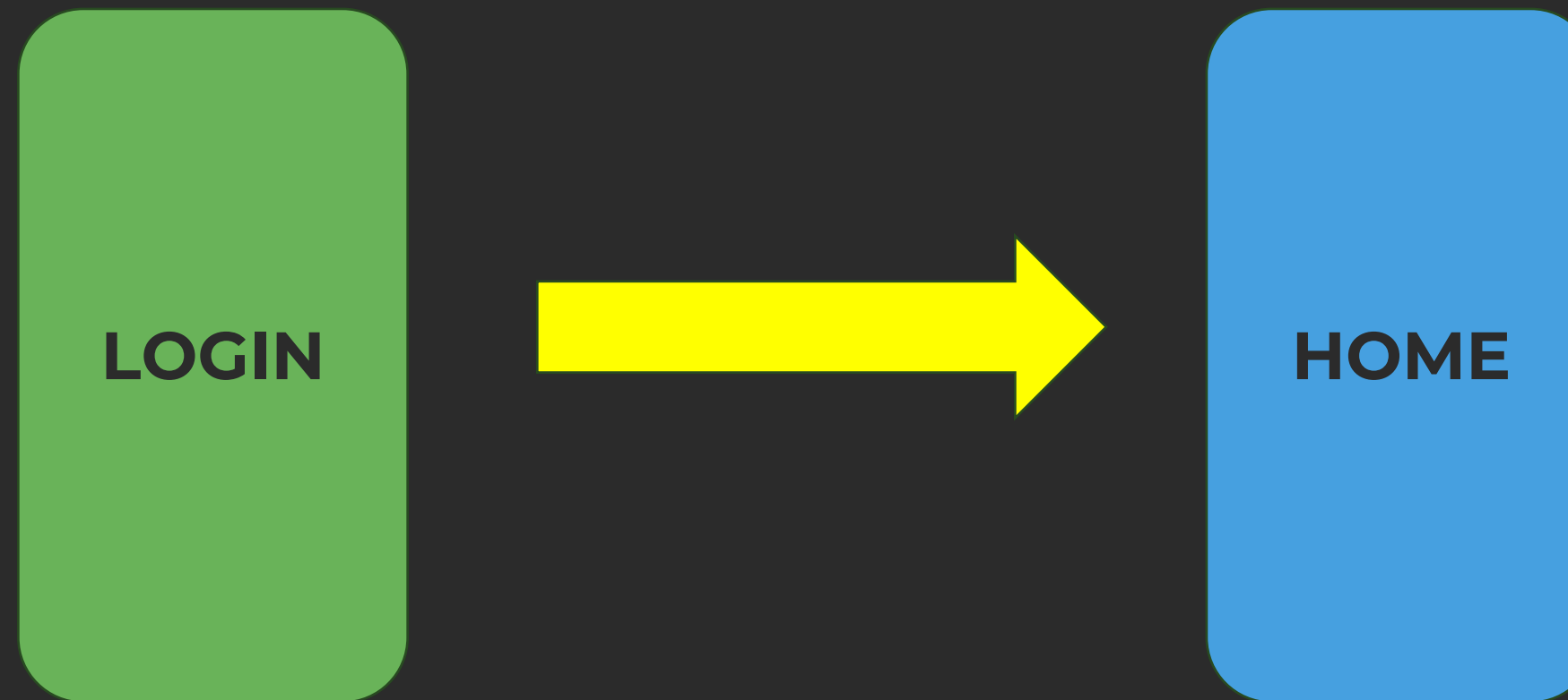
Basic Navigation Concept

- Flutter provides a widget called Navigator.
- A basic routing class called MaterialPageRoute.
- Navigator provides us PUSH and POP methods.

Steps to implement Basic Navigation

- First, you need to create some routes or screens.
- Then, navigate to one route from another route by using the Navigator.push() method.
- Finally, navigate to the first route by using the Navigator.pop() method





```
Navigator.push(context, MaterialPageRoute(  
    builder: (context) => SecondRoute()),  
);
```



Named Routing and Data Passing



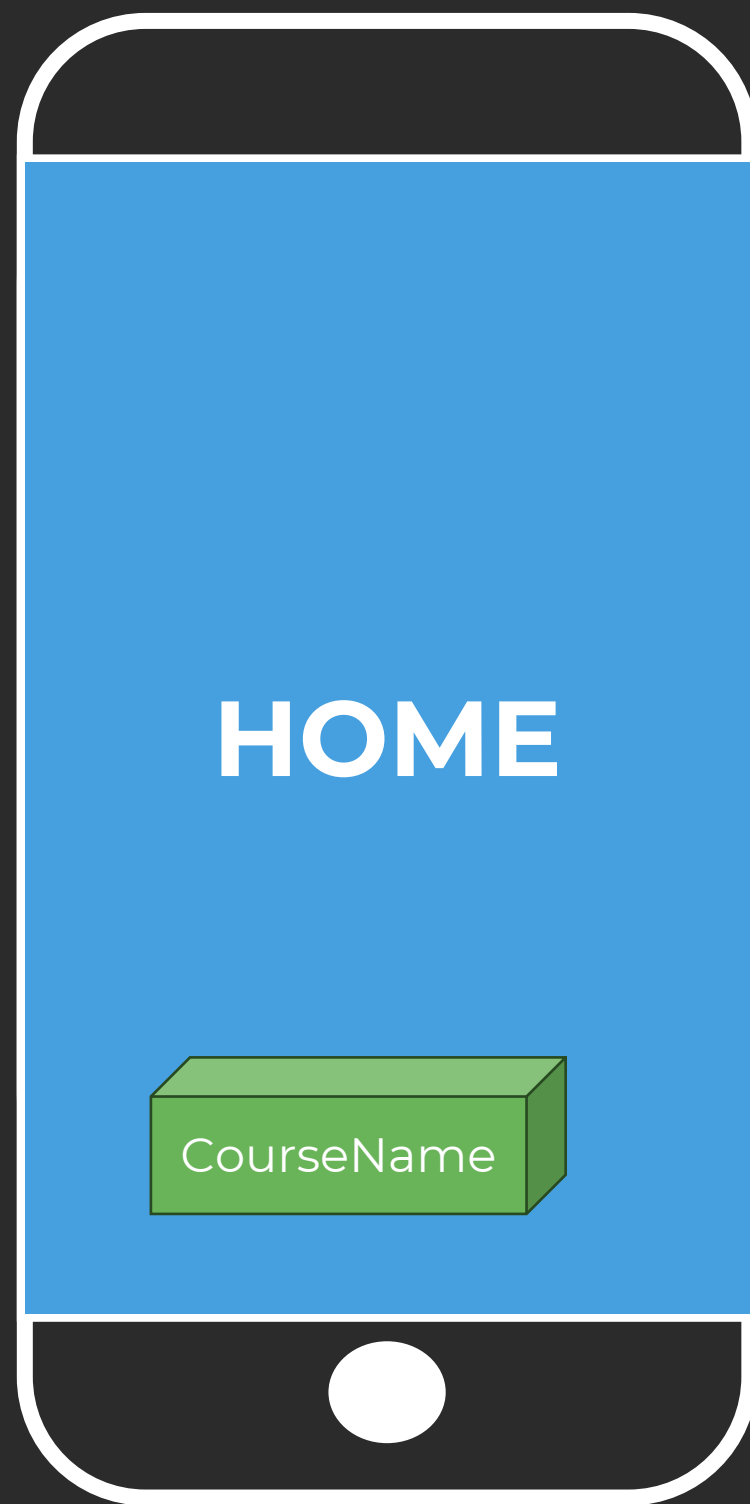
Named Routes Concept

- `Navigator.push()` method works well when you have only two or three routes
- `Navigator.push()` method will result in a lot of code duplication
- Its better to assign name to routes to make it clean and self documenting

Steps to implement Named Routes

- Declare routes property in the `MaterialApp` constructor.
- Mention the initial route instead of `home` in the `MaterialApp` constructor.
- Call the `Navigator.pushNamed()` or `Navigator.pushReplacementNamed()` method when needed.







```
onPressed: ()async{  
  String result = await Navigator.pushNamed(context, "/second");  
  print(result); // prints "YES"  
}
```

```
Navigator.pop(context, "YES");
```



Summary

- Understood the concept of a Navigation **Stack**
- Learned the fundamental **basic way** of navigation
- Explored the use of **named routes**
- Pass data while navigating using **constructor** method
- Pass data using the **argument** method in Named routes
- **Return data** while navigating back





Thank You!



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