

| pubspec.yaml - 01 | Directory |
|--|---|
| <pre>environment: sdk: '>=2.18.2 <3.0.0' dependencies: flutter: sdk: flutter cupertino_icons: ^1.0.2 universal_html: ^2.0.8</pre> | <pre>pages constants routes widgets</pre> |

| root/main.dart - 02 |
|---|
| <pre>import "package:flutter/material.dart"; import 'package:navigation_bar_web/ui/home_page.dart'; void main() { runApp(const MyApp()); } class MyApp extends StatelessWidget { const MyApp({super.key}); @override Widget build(BuildContext context) { return MaterialApp(debugShowCheckedModeBanner: false, title: "Rz Rasel Tutorial", theme: ThemeData(primarySwatch: Colors.blue, visualDensity: VisualDensity.adaptivePlatformDensity,), home: HomePage(),); } }</pre> |

| pages/home_page.dart - 03 |
|--|
| <pre>import "package:flutter/material.dart"; class HomePage extends StatelessWidget { const HomePage({super.key}); @override Widget build(BuildContext context) { return Center(child: Container(child: const Text("Home Page", style: TextStyle(fontSize: 30,),),),); }; //about_page, contact_page }</pre> |

widgets/app_navigation_bar.dart - 04

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

class AppNavigationBar extends StatefulWidget {
  @override
  AppNavigationBarState createState() => AppNavigationBarState();
}

class AppNavigationBarState extends State<AppNavigationBar> {
  @override
  Widget build(BuildContext context) {
    return Container(
      height: 100.0,
      child: Row(
        mainAxisAlignment: MainAxisAlignment.max,
        children: [
          Text(
            "Home",
            style: TextStyle(
              fontSize: 14.0,
            ),
          ),
          SizedBox(width: 100.0),
          Text(
            "About",
            style: TextStyle(
              fontSize: 14.0,
            ),
          ),
          SizedBox(width: 100.0),
          Text(
            "Contact",
            style: TextStyle(
              fontSize: 14.0,
            ),
          ),
        ],
      ),
    );
  }
}
```

widgets/app_navigation_item.dart - 05

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

class AppNavigationItem extends StatelessWidget {

  final String title;

  const AppNavigationItem({required this.title, super.key});

  @override
  Widget build(BuildContext context) {
    return Padding(
      padding: const EdgeInsets.symmetric(horizontal: 50.0),
      child: Text(
        title,
        style: TextStyle(fontSize: 14.0),
      ),
    );
  }
}
```

widgets/app_navigation_bar.dart - 06

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

class AppNavigationBar extends StatefulWidget {
  @override
  AppNavigationBarState createState() => AppNavigationBarState();
}

class AppNavigationBarState extends State<AppNavigationBar> {
  @override
  Widget build(BuildContext context) {
    return Container(
      height: 100.0,
      child: Row(
        mainAxisAlignment: MainAxisAlignment.end,
        mainAxisAlignment: MainAxisAlignment.max,
        children: [
          AppNavigationBarItem(title: "Home"),
          AppNavigationBarItem(title: "About"),
          AppNavigationBarItem(title: "Contact"),
        ],
      ),
    );
  }
}
```

root/app_view.dart - 07

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

class AppView extends StatelessWidget {
  final Widget child;
  const AppView({required this.child, super.key});

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      backgroundColor: Colors.white,
      body: Column(
        children: [
          AppNavigationBar(),
          Expanded(child: child),
        ],
      ),
    );
  }
}
```

root/main.dart - 08

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

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

class MyApp extends StatelessWidget {
  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      debugShowCheckedModeBanner: false,
      title: "Rz Rasel Tutorial",
      theme: ThemeData(
        primarySwatch: Colors.blue,
        visualDensity: VisualDensity.adaptivePlatformDensity,
      ),
      builder: (context, child) => AppView(
        child: child!,
      ),
      // TODO: set up the navigation
    ); //context = _
  }
}
```

routes/app_routes.dart - 09

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

const String routeHome = "/";
const String routeAbout = "/about";
const String routeContact = "/contact";

final navKey = GlobalKey<NavigatorState>();
```

routes/app_route_generator.dart - 10

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

class AppRouteGenerator {
  static Route<dynamic>? generateRoute(RouteSettings settings) {
    switch (settings.name) {
      case routeHome:
        return MaterialPageRoute(builder: (_) => const HomePage());
      case routeAbout:
        return MaterialPageRoute(builder: (_) => const AboutPage());
      case routeContact:
        return MaterialPageRoute(builder: (_) => const ContactPage());
    }
    return null;
  }
}
```

root/main.dart - 11

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

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

class MyApp extends StatelessWidget {
  const MyApp({super.key});

  @override
  Widget build(BuildContext context) {
    return MaterialApp(
      debugShowCheckedModeBanner: false,
      title: "Rz Rasel Tutorial",
      theme: ThemeData(
        primarySwatch: Colors.blue,
        visualDensity: VisualDensity.adaptivePlatformDensity,
      ),
      builder: (context, child) => AppView(
        child: child!,
      ),
      initialRoute: routeHome,
      navigatorKey: navKey,
      onGenerateRoute: AppRouteGenerator.generateRoute,
    );
  }
}
```

widgets/app_navigation_item.dart - 12

```
class AppNavigationItem extends StatelessWidget {

  final String title;
  final String routeName;

  const AppNavigationItem({required this.title, required this.routeName, super.key})

  @override
  Widget build(BuildContext context) {
    return GestureDetector(
      onTap: () {
        //TODO navigate
      },
      child: Padding(
        padding: const EdgeInsets.symmetric(horizontal: 50.0),
        child: Text(
          title,
          style: TextStyle(fontSize: 14.0),
        ),
      ),
    );
  }
}
```

widgets/app_navigation_bar.dart - 13

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

class AppNavigationBar extends StatefulWidget {
  const AppNavigationBar({Key? key}) : super(key: key);

  @override
  State<AppNavigationBar> createState() => AppNavigationBarState();
}

class AppNavigationBarState extends State<AppNavigationBar> {
  @override
  Widget build(BuildContext context) {
    return Container(
      height: 100.0,
      child: Row(
        mainAxisAlignment: MainAxisAlignment.end,
        mainAxisAlignment: MainAxisAlignment.max,
        children: [
          AppNavigationItem(
            title: "Home",
            routeName: routeHome,
          ),
          AppNavigationItem(
            title: "About",
            routeName: routeAbout,
          ),
          AppNavigationItem(
            title: "Contact",
            routeName: routeContact,
          ),
        ],
      ),
    );
  }
}
```

widgets/app_navigation_item.dart - 14

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

class AppNavigationItem extends StatelessWidget {
  final String title;
  final String routeName;
  final bool selected;
  final Function onHighlight;

  const AppNavigationItem(
    {required this.title,
    required this.routeName,
    required this.selected,
    required this.onHighlight,
    super.key});

  @override
  Widget build(BuildContext context) {
    return GestureDetector(
      onTap: () {
        navKey.currentState?.pushNamed(routeName);
        onHighlight(routeName);
      },
      child: Padding(
        padding: const EdgeInsets.symmetric(horizontal: 50.0),
        child: Text(
          title,
          style: TextStyle(fontSize: 14.0),
        ),
      ),
    );
  }
}
```

widgets/app_navigation_bar.dart - 15

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

class AppNavigationBar extends StatefulWidget {
  const AppNavigationBar({Key? key}) : super(key: key);

  @override
  State<AppNavigationBar> createState() => AppNavigationBarState();
}

class AppNavigationBarState extends State<AppNavigationBar> {
  int index = 0;

  @override
  Widget build(BuildContext context) {
    return Container(
      height: 100.0,
      child: Row(
        mainAxisAlignment: MainAxisAlignment.end,
        mainAxisSize: MainAxisSize.max,
        children: [
          AppNavigationItem(
            selected: index == 0,
            title: "Home",
            routeName: routeHome,
            onHighlight: onHighlight,
          ),
          AppNavigationItem(
            selected: index == 1,
            title: "About",
            routeName: routeAbout,
            onHighlight: onHighlight,
          ),
          AppNavigationItem(
            selected: index == 2,
            title: "Contact",
            routeName: routeContact,
            onHighlight: onHighlight,
          ),
        ],
      ),
    );
  }

  void onHighlight(String route) {
    switch (route) {
      case routeHome:
        changeHighlight(0);
        break;
      case routeAbout:
        changeHighlight(1);
        break;
      case routeContact:
        changeHighlight(2);
        break;
    }
  }

  void changeHighlight(int newIndex) {
    setState(() {
      index = newIndex;
    });
  }
}
```


widgets/app_interactive_nav_item.dart - 16

```
import "package:flutter/material.dart";
import 'package:flutter/gestures.dart';
import 'package:universal_html/html.dart' as html;

class AppInteractiveNavItem extends MouseRegion {
  static final appContainer = html.window.document.querySelectorAll("flt-glass-pane")[0];

  AppInteractiveNavItem({Widget? child, required String text})
    : super(
        onHover: (PointerHoverEvent evt) {
          appContainer.style.cursor = "pointer";
        },
        onExit: (PointerExitEvent evt) {
          appContainer.style.cursor = "default";
        },
        child: Text(text),
      );
}
```

constants/styles.dart - 17

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

const TextStyle kPageTitleStyle = TextStyle(fontSize: 16.0);
```

```
import 'package:flutter/gestures.dart';
import 'package:flutter/material.dart';
import 'package:navigation_bar_web/constants/styles.dart';
import 'package:universal_html/html.dart' as html;

class InteractiveText extends StatefulWidget {
  final String text;
  final String routeName;
  final bool selected;

  const InteractiveText({
    super.key,
    required this.text,
    required this.routeName,
    required this.selected,
  });

  @override
  InteractiveTextState createState() => InteractiveTextState();
}

class InteractiveTextState extends State<InteractiveText> {
  bool _hovering = false;

  @override
  Widget build(BuildContext context) {
    return MouseRegion(
      onHover: (_) => _hovered(true),
      onExit: (_) => _hovered(false),
      child: Text(widget.text,
        style: _hovering
          ? kPageTitleStyle.copyWith(
              color: Colors.indigo, decoration: TextDecoration.underline)
          : (widget.selected)
              ? kPageTitleStyle.copyWith(color: Colors.red)
              : kPageTitleStyle),
    );
  }

  _hovered(bool hovered) {
    setState(() {
      _hovering = hovered;
    });
  }
}
```

widgets/app_interactive_nav_item.dart - 19

```
import "package:flutter/material.dart";
import 'package:flutter/gestures.dart';
import 'package:universal_html/html.dart' as html;

class AppInteractiveNavItem extends MouseRegion {
  static final appContainer =
    html.window.document.querySelectorAll('flt-glass-pane')[0];

  AppInteractiveNavItem(
    {super.key,
    Widget? child,
    required String text,
    required String routeName,
    required bool selected})
    : super(
      onHover: (PointerHoverEvent evt) {
        appContainer.style.cursor = "pointer";
      },
      onExit: (PointerExitEvent evt) {
        appContainer.style.cursor = "default";
      },
      child: InteractiveText(
        text: text,
        routeName: routeName,
        selected: selected,
      ),
    );
}
```

widgets/app_navigation_item.dart - 20

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

class AppNavigationItem extends StatelessWidget {
  final String title;
  final String routeName;
  final bool selected;
  final Function onHighlight;

  const AppNavigationItem(
    {required this.title,
    required this.routeName,
    required this.selected,
    required this.onHighlight,
    super.key});

  @override
  Widget build(BuildContext context) {
    return GestureDetector(
      onTap: () {
        navKey.currentState?.pushNamed(routeName);
        onHighlight(routeName);
      },
      child: Padding(
        padding: const EdgeInsets.symmetric(horizontal: 10.0),
        child: AppInteractiveNavItem(
          text: title,
          routeName: routeName,
          selected: selected,
        ),
      ),
    );
  }
}
```