

EXERCISE 5: NAVIGATION AND ROUTING

```
import flet as ft
import datetime

def main(page: ft.Page):
    page.title = "Navigation and Routing"

    def handle_change(e):
        page.add(ft.Text(f>Date changed:
{e.control.value.strftime('%Y-%m-%d')}"))

    def handle_dismissal(e):
        page.add(ft.Text(f>DatePicker dismissed"))

    name = ft.TextField(label="Name: ")
    date = ft.DatePicker(
        value=datetime.date.today(),
        on_change=handle_change,
        on_dismiss=handle_dismissal,
    )
    sex = ft.RadioGroup(content=ft.Row([
        ft.Radio(value="Female", label="Female"),
        ft.Radio(value="Male", label="Male"),
        ft.Radio(value="Other", label="Other"),]))
    address = ft.TextField(label="Address: ")

    country = ft.Dropdown(label="Country: ",
        width=100,
        options=[
            ft.dropdown.Option("Finland"),
            ft.dropdown.Option("Sweden"),
            ft.dropdown.Option("Norway"),
            ft.dropdown.Option("USA"),
            ft.dropdown.Option("Spain"),
            ft.dropdown.Option("France"),
            ft.dropdown.Option("Other"),
        ])
    username = ft.TextField(label="Username")
    password = ft.TextField(label="Password", password=True,
        can_reveal_password=True)

    def validate_form(e):
        has_error = False
        # Check username
        if not username.value:
            username.error_text="The username is required"
            has_error=True
        else:
            username.error_text=None
        # Check password
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        if not password.value:
            password.error_text="The password is required"
            has_error=True
        else:
            password.error_text=None
            username.update()
            password.update()
            # If there isn't any problem, it goes to forms
            if not has_error:
                page.go("/form")

def route_change(route):
    page.views.clear()
    page.views.append(
        ft.View("/", [
            ft.AppBar(title=ft.Text("Navigation and Routing"),
bgcolor=ft.colors.SURFACE_VARIANT),
            username,
            password,
            ft.ElevatedButton("Login",
on_click=validate_form),
        ],))
    if page.route == "/form":
        page.views.append(
            ft.View("/form", [
                ft.AppBar(title=ft.Text("Form"),
bgcolor=ft.colors.SURFACE_VARIANT),
                name,
                ft.Text("Birth date"),
                ft.ElevatedButton(
                    "Date",
                    icon=ft.icons.CALENDAR_MONTH,
                    on_click=lambda e: page.open(date),),
                ft.Text("Sex: "),
                sex,
                address,
                country,
                ft.ElevatedButton("Show Details", on_click=lambda _:
page.go("/showdetails")),
                ft.ElevatedButton("Go Home", on_click=lambda _:
page.go("/")),
            ],))
    if page.route == "/showdetails":
        page.views.append(
            ft.View("/showdetails", [
                ft.AppBar(title=ft.Text("Show Details"),
bgcolor=ft.colors.SURFACE_VARIANT),
                ft.Card(content=ft.Container(
                    content=ft.Column([
                        ft.Text(f"Name: {name.value}"),
                        ft.Text(f"Birth date: {date.value.day}-
{date.value.month}-{date.value.year}"),
                        ft.Text(f"Sex: {sex.value}"),
```


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ft.Text(f"Address: {address.value}"),
ft.Text(f"Country: {country.value}"),
ft.Row([ft.ElevatedButton("Return to form",
on_click=lambda _: page.go("/form")),
alignment=ft.MainAxisAlignment.END,
),
],),
width=400,
padding=10,
)),
],))
page.update()

def view_pop(view):
    page.views.pop()
    top_view = page.views[-1]
    page.go(top_view.route)
page.on_route_change = route_change
page.on_view_pop = view_pop
page.go(page.route)

ft.app(main, view=ft.AppView.WEB_BROWSER)
```

Navigation and Routing

Username


Password 

Login

Navigation and Routing

Username

The username is required

Password 


The password is required

Login

← Form

Name:

Birth date

 Date

Sex:

☐ Female ☐ Male ☐ Other

Address:

Country: ▼

Show Details

Go Home

← Show Details

Name: Nerea Salamero Labara

Birth date: 26-11-2002

Sex: Female

Address: Katiskaniementie

Country: Finland

Return to form