

CASE STUDY

(Flutter Project)

Description:

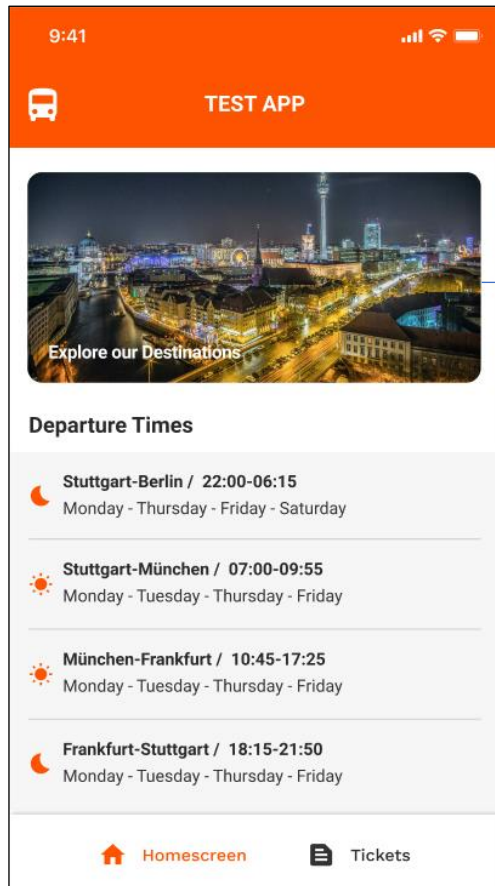
- The design in the following link was prepared with Figma design tool. You need to open the link and login to Figma. If you do not have any account in Figma, please sign up so that you can display the design in “Inspect Mode”. You can display any element style from “Inspect menu”.

Design Link: https://www.figma.com/file/voGqhjp9cOldnstInGyiqC/Flutter_Case_Study_1002

- The flutter project needs to be created with **“MaterialApp”**.
- Use **external state management** tools (GetX, Provider, Bloc etc.) for login state
- Find icons used in project from material icons website.
- Show progress indicator during API GET and POST requests.
- **Deadline:** 19.09.2021 23:59

Details:

1. Home Page



The image link in the screen is in the following:

<https://images.unsplash.com/photo-1528728329032-2972f65dfb3f?ixlib=rb-1.2.1&ixid=MnwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHx8&auto=format&fit=crop&w=500&q=80>

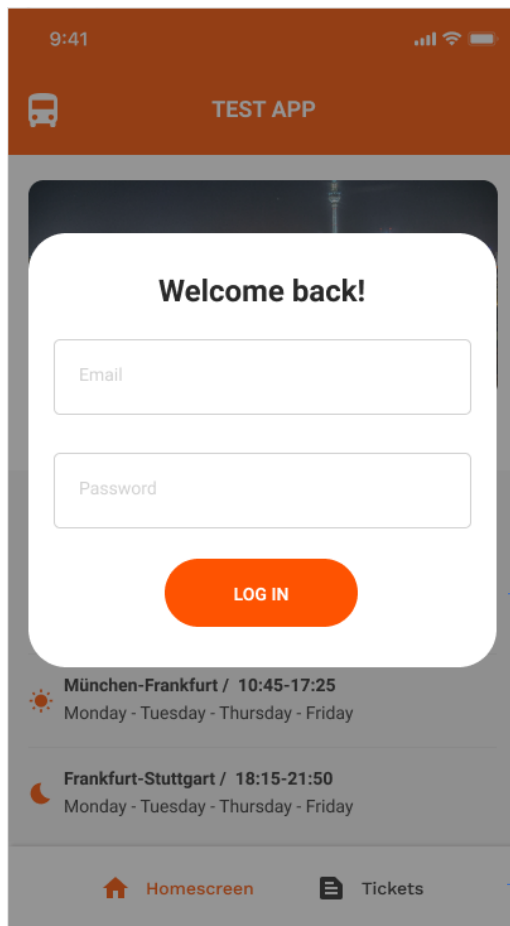
Departure times need to be fetched from API. API endpoint is in the following:

GET <https://anybwnk52i.execute-api.eu-central-1.amazonaws.com/test/departureTimes>

Success Response:

```
{
  status : 200,
  success : true,
  message : "Data found",
  data : [
    {
      route       : "Stuttgart-Berlin",
      departureTime : "22:00",
      arrivalTime  : "06:15",
      tourType     : "Night",
      daysOfWeek  : [
        "Monday",
        "Thursday",
        "Friday",
        "Saturday"
      ]
    },
    ...
  ]
}
```

2. Login Modal



Login data needs to be fetched from API. API endpoint is in the following:

POST <https://anybwnk52i.execute-api.eu-central-1.amazonaws.com/test/login>

POST Parameters (Body):

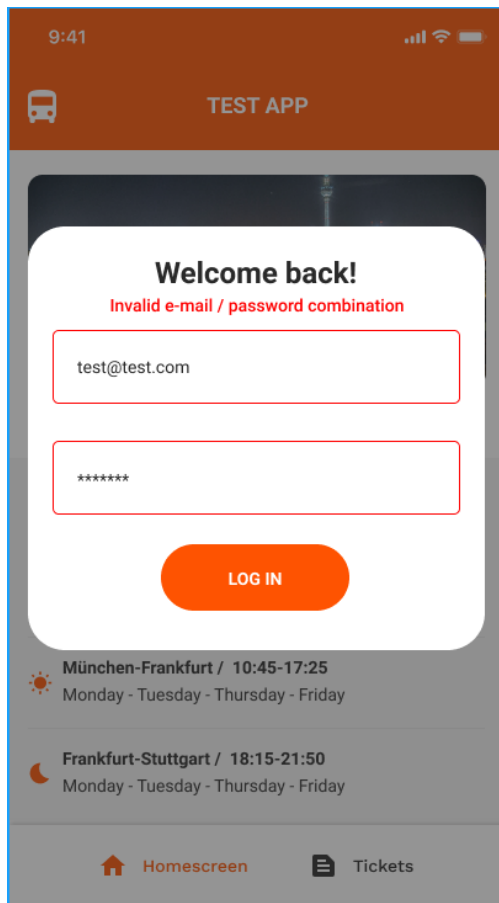
```
{  
  email    : "myapp@test.com",  
  password : "123456"  
}
```

Success Response:

```
{  
  status : 200,  
  success: true,  
  message: "User logged in successfully",  
  data : {  
    email : "myapp@test.com",  
    userId: "bac96e9b-717b-40b5-8198-6bfe84fbe081"  
  }  
}
```

When "Tickets" menu is clicked, if user is not logged in, display login modal. (As shown in the picture)

3. Login Modal with error



Login data needs to be fetched from API. API endpoint is in the following:

POST <https://anybwnk52i.execute-api.eu-central-1.amazonaws.com/test/login>

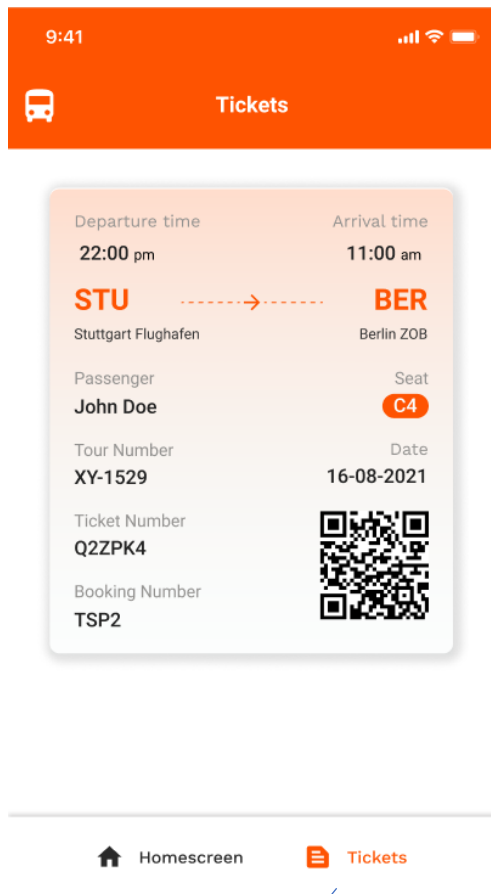
POST Parameters (Body):

```
{
  email    : "myapp@test.com",
  password : "123456"
}
```

Error Response:

```
{
  status  : 403,
  success : false,
  message : "Invalid e-mail / password combination"
}
```

4. Ticket Screen



When "Tickets" menu is clicked, if user is logged in, display ticket screen. (As shown in the picture)

Ticket data needs to be fetched from API. API endpoint is in the following:

GET <https://anybwnk52i.execute-api.eu-central-1.amazonaws.com/test/:userId/ticket>

:userId is in the response data when login request sent to API

Success Response:

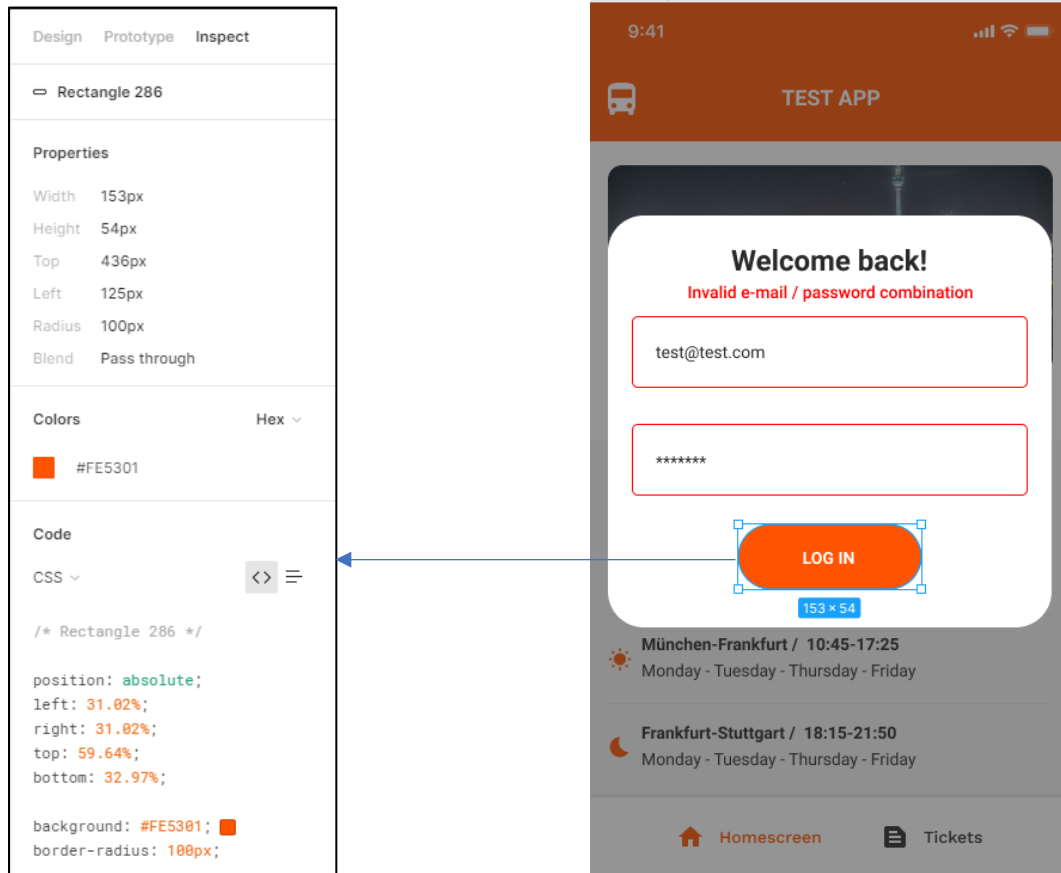
```
{
  status : 200,
  success: true,
  message: "Data found",
  data : {
    passengerName : "John Doe",
    seatNu       : "C4",
    departureCity : "STU",
    departureBusStop : "Stuttgart Flughafen",
    departureTime : "22:00 pm",
    arrivalCity   : "BER",
    arrivalBusStop : "Berlin ZOB",
    arrivalTime   : "11:00 am",
    tourNumber    : "XY-1529",
    date          : "16-08-2021",
    ticketNumber  : "Q2ZPK4",
    bookingNumber : "TSP2",
    qrCode       : "378f8b75-4333-4e45-9e17-bebd1994951c"
  }
}
```

Error Response:

```
{
  status : 403,
  success : false,
  message : "User could not be found"
}
```

Figma Inspect Mode

After you log in Figma, open “Inspect mode”. When you click an element, all properties will be shown in “Inspect” area.



When you want to show distances between elements, click the target element first and hover over another element.

