

Agenda for Today

A Journey to the Future



Introduction
Welcome, Meet the

Our Journey to the Future

Our Approach
Roadmap of the
Project

04 UI

Mockup, UML,
Demo

105 API Idea, Demo

Welcome to "Völkerswalden an der Südlichen Weinstraße"





Fibre Optic Cable

for the 2.000 citizens

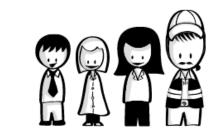
How can we help digitalize the local jobs?
Where can software be utilized?
How can the locals work together?
And where can interfaces be used?



Bruno Bärber

Barber

Digitalization



Familie Gelatelli

Ice-Cream Shop



Dr. Carla von Bettwitz

Hotel Owner

Let's start



Meet the Team

Contributors to the project



Anna GossnerFrontend Developer, BASF



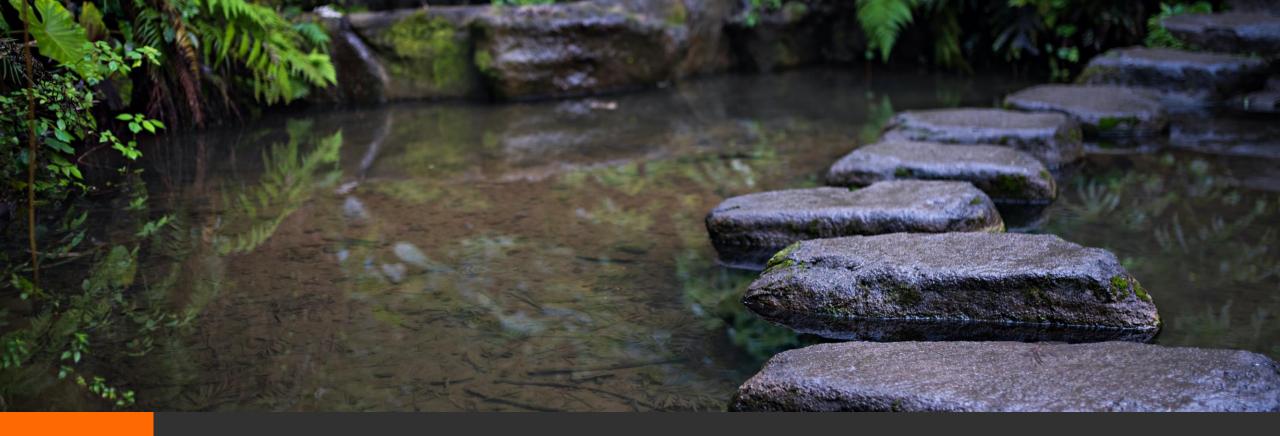
Cedrik Baedorf
Backend Developer, SAP



Jonas BeckerFrontend Developer, BASF



Florian VeitzBackend Developer, SAP



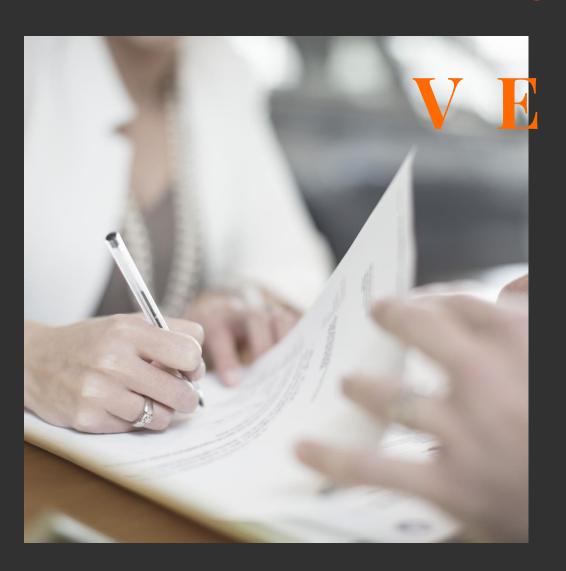


Storyline Join us on our journey to the future





TRA



Digital Solution

What problems get solved through the software for Mia Reis and her employees?

Before:

Paperwork

A lot of it.

Now:

One System

Everything in one place. Digitalized.



Improvements for the Travel Agency



SustainabilityNo more paperwork



Flexibility
Customer wishes can be changed quickly



Efficiency

As a result of optimized working processes



Satisfaction

Satisfied employees, as well as customers





Our Approach How did we turn our ideas into code?





Idea

- Collecting ideas for the software:
 - ➤ Who is it for?
 - ➤ What processes should it include?
- Brainstorming about interfaces & possible connections
- Setting up a GitHub repository
- Division of tasks

Our Journey



Modeling

- Use Case Diagram
- Use Case Documents
- Class Diagram
- Entity Relationship Model

Mockup

Designing a mockup for the different use cases, as well as alternative flows & errors

Programming

- JPA Entities
- Junit Tests
- Frontend: JavaFX
- Backend



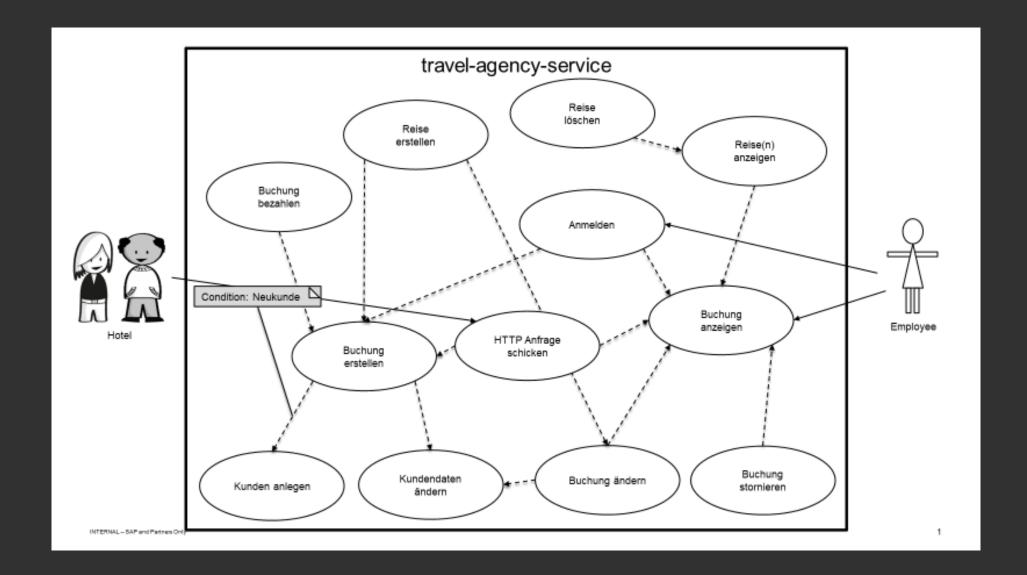


- Database
- Server
- API





Use Cases







User Interface
Mockup, Database Model and Demo

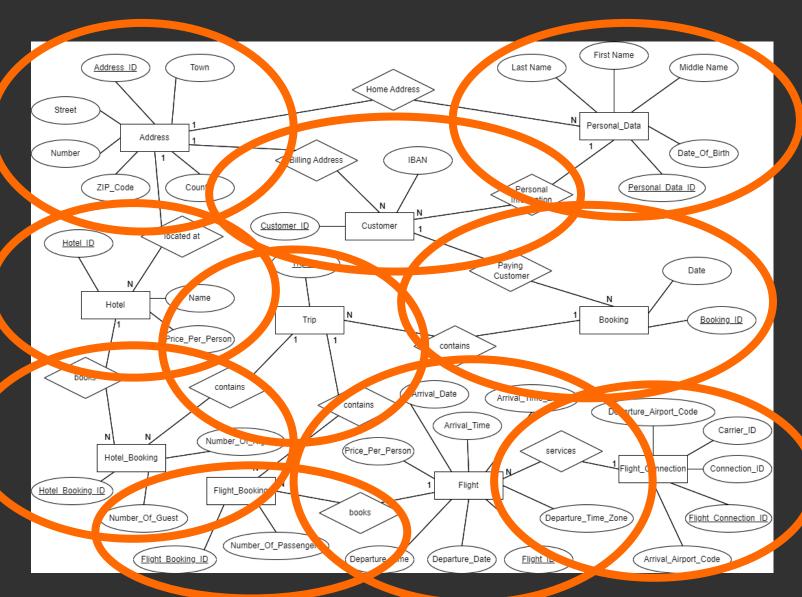




UI Mockup Demo



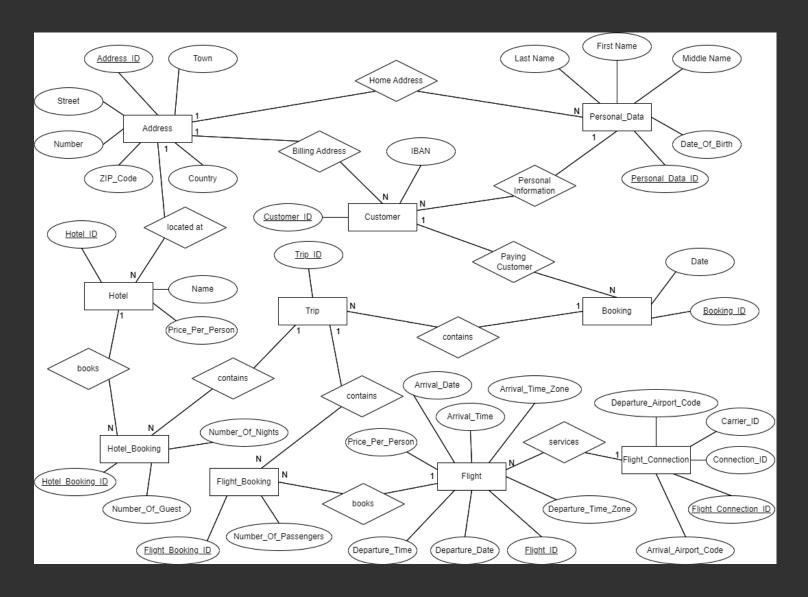
Database Model



Entities

- Address
- Personal data
- Customer
- Hotel
- Hotel booking
- Flight connection
- Flight
- Flight booking
- Trip
 - Booking

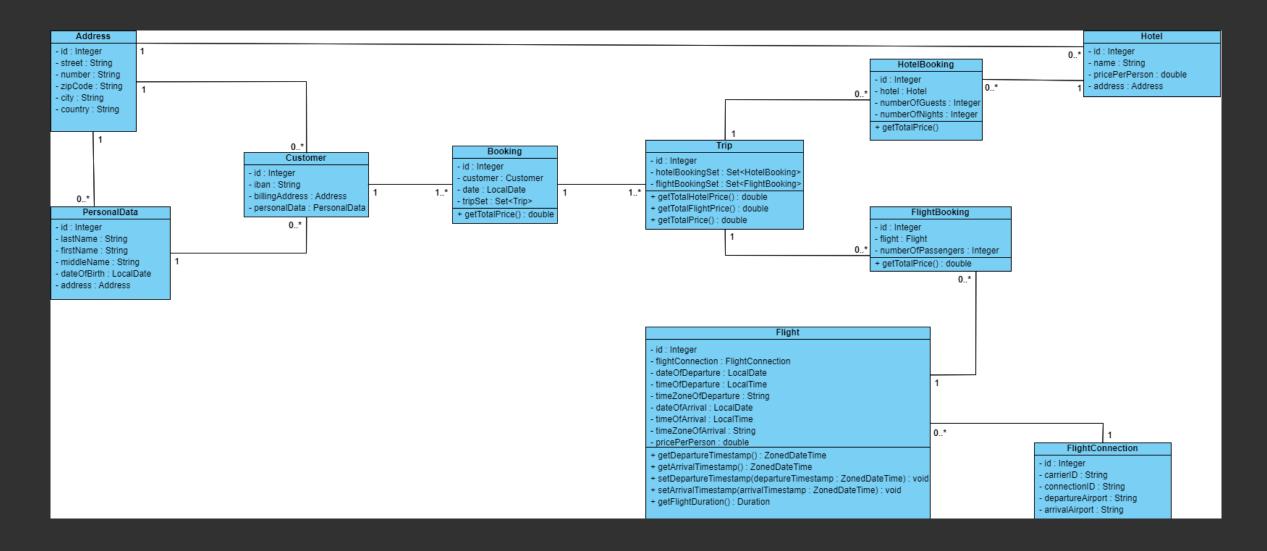
Database Model



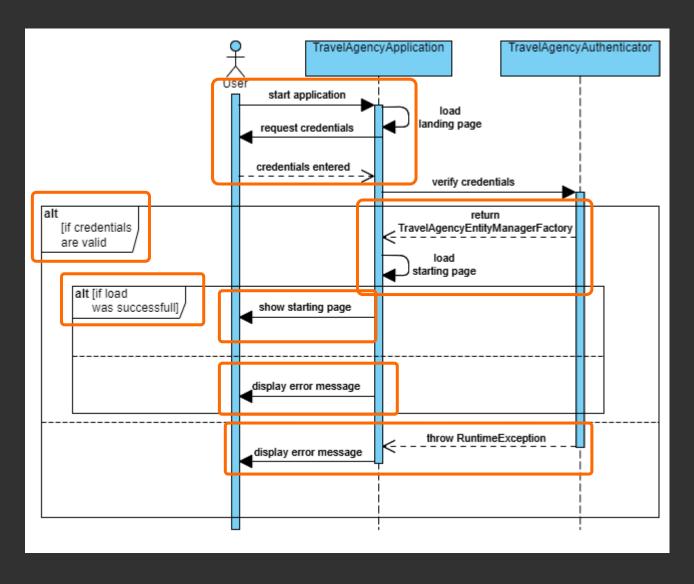
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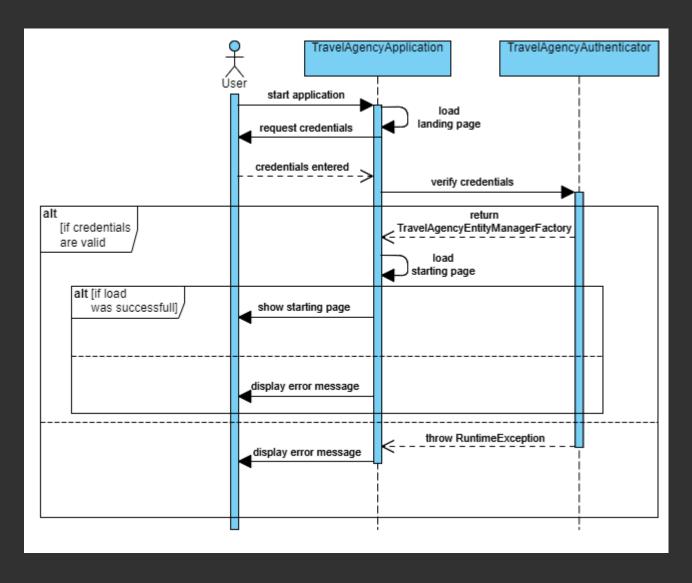
Database Model



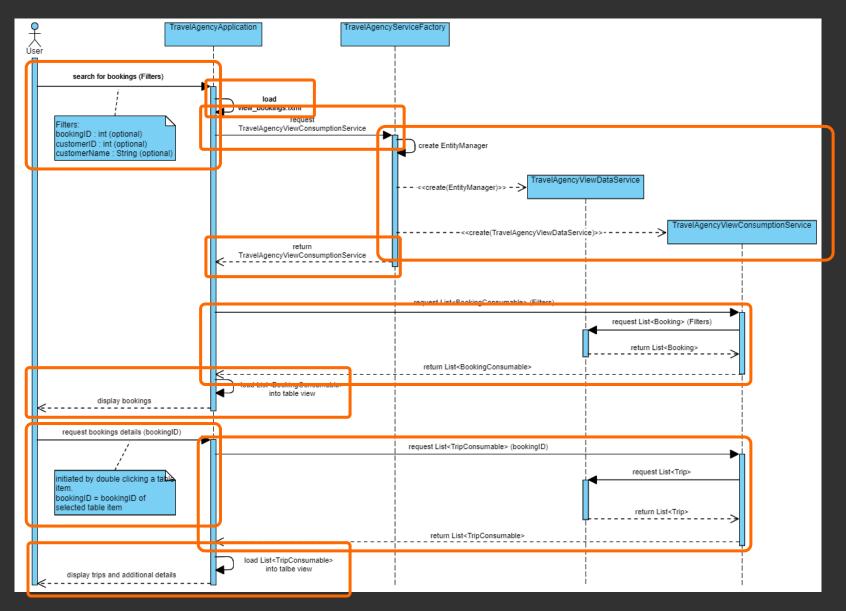
Login Process



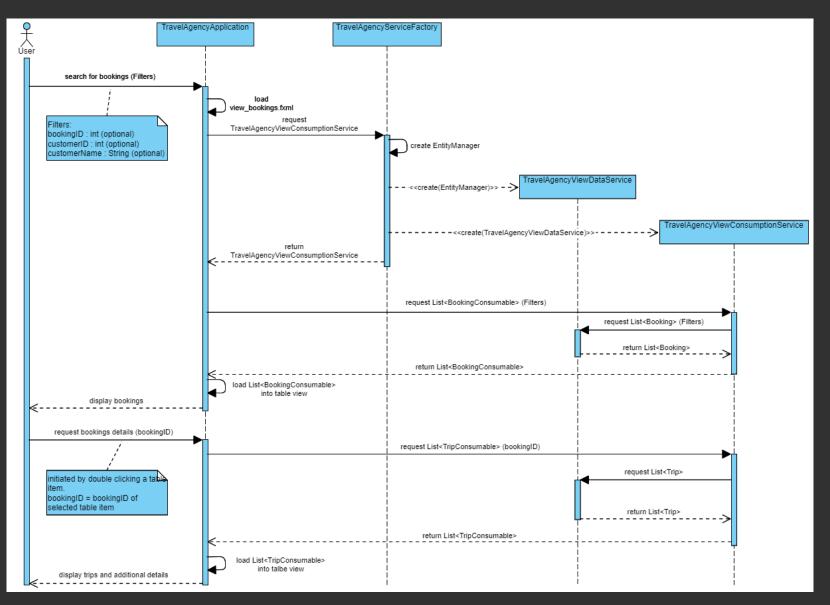
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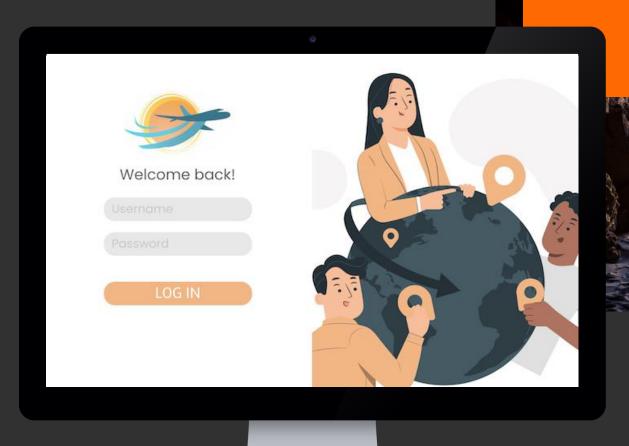
Service Process

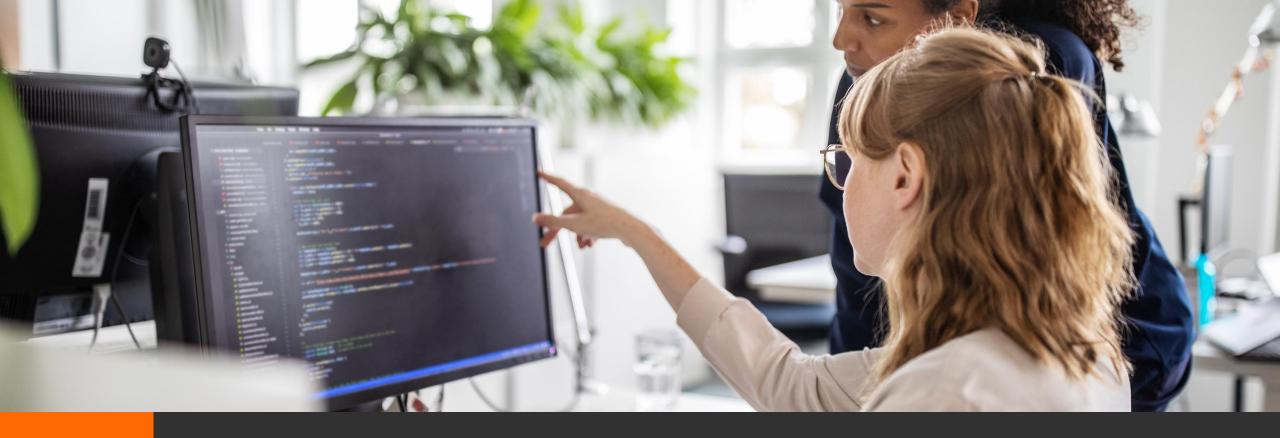


Service Process



UI Demo







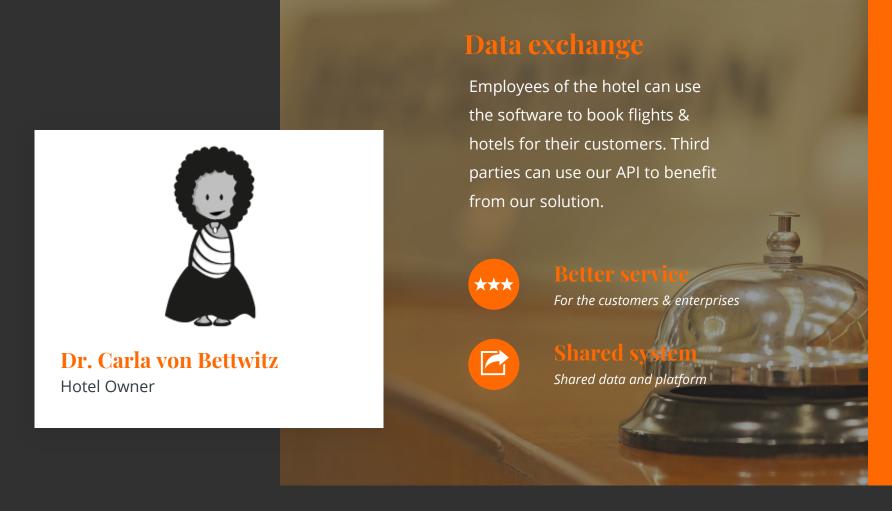
API
Application Programming Interface
API Ideas, Demo



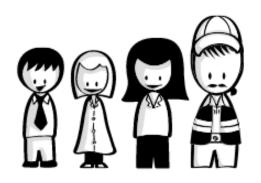
Building Bridges.

How can we adapt to a changing and more sustainable world?

By building bridges and leveraging the benefits of digital transformation.

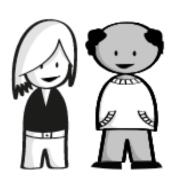


Other Possible Interfaces



Familie Gelatelli

Ice-Cream Shop



Michelle & Max Merlot

Winery



API Demo

Start

```
mirror object to mirro
mirror_object
peration == "MIRROR_X":
 irror_mod.use_x = True
mirror_mod.use_y = False
 mirror_mod.use_z = False
Operation == "MIRROR_Y"
  lrror_mod.use_x = False
  "Irror_mod.use_y = True"
   mirror_mod.use_z = False
        _operation == "MIRROR_Z"
       Irror_mod.use_x = False
      lrror_mod.use_y = False
       lrror_mod.use_z = True
    melection at the end -add
         ob.select= 1
            er ob.select=1
            ntext.scene.objects.action
           "Selected" + str(modified
          irror ob.select = 0
       bpy.context.selected_obje
        Mata.objects[one.name].sel
      int("please select exaction
       OPERATOR CLASSES ----
             ypes.Operator):
X mirror to the selected
          ject.mirror_mirror_x"
   ontext):
    ontext):
    ontext
```



Thank you for your attention!

Any questions?

