Bus Booking Application

Group 4:
Rahul, Hardik, Sahithya, Aditi and Azad

Mentor:
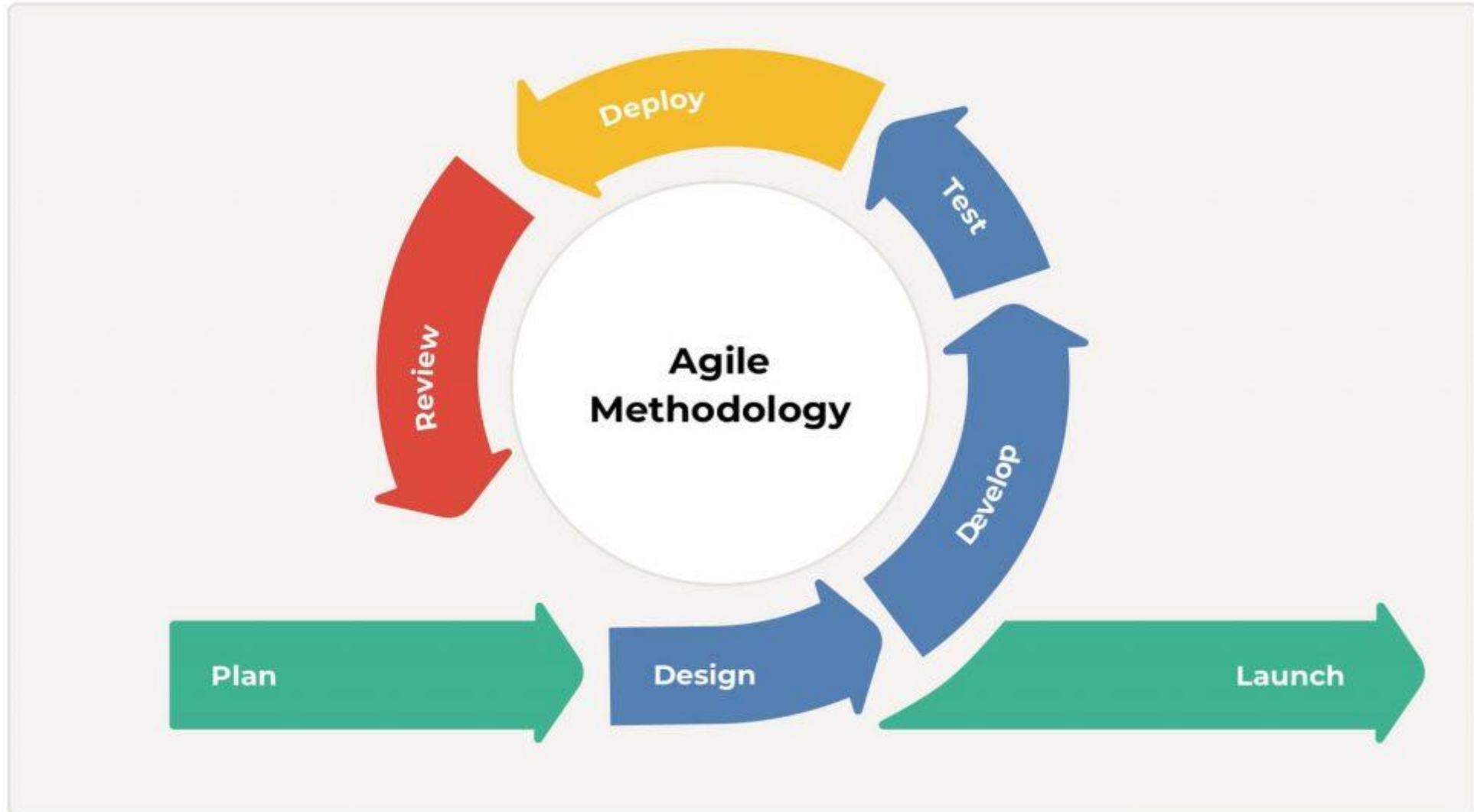Vipul

THE BEST RUN SAP

Agenda

- Problem Statement

- ER diagram

- Overview of the architecture

- Functionalities
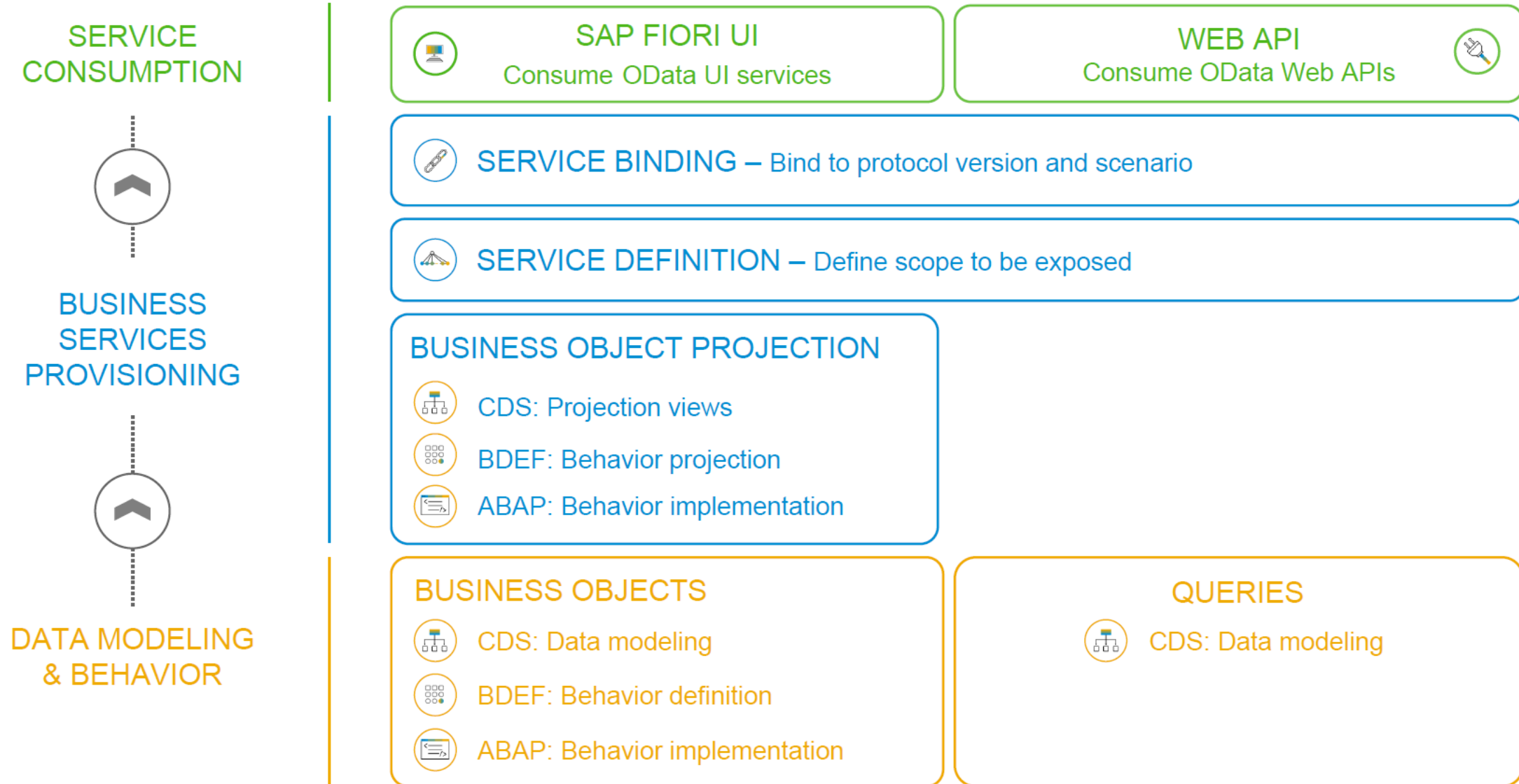
- Assumptions

- Demonstration

- What we learnt

Problem Statement

To make an application where users can book a seat using various routes of buses on specific date.

Software Development Life Cycle

Overview of the Architecture

SERVICE CONSUMPTION

SAP FIORI UI
Consume OData UI services

WEB API
Consume OData Web APIs

SERVICE BINDING – Bind to protocol version and scenario

SERVICE DEFINITION – Define scope to be exposed

BUSINESS SERVICES PROVISIONING

BUSINESS OBJECT PROJECTION

CDS: Projection views

BDEF: Behavior projection

ABAP: Behavior implementation

DATA MODELING & BEHAVIOR

BUSINESS OBJECTS

CDS: Data modeling

BDEF: Behavior definition

ABAP: Behavior implementation

QUERIES

CDS: Data modeling

User View

Standard ⌄

Passenger Name:
Bus Number:
PNR ID:
Source:

Search 🔍

Destination:
Start Date:

Go   Adapt Filters

Bookings (1) | Standard ⌄

Create   Delete   Show Details   ⚙

Passenger Name	Bus Number	Source	Destination	Start Date	Current Status
○ RAJESH MODI	104	MUMBAI	THANE	Sep 24, 2021	✓ CNF

Admin View

Standard ⌄

Bus Number:	Bus Name:	Source:	Destination:
Search 🔍				Go Adapt Filters

Buses (3) Standard ⌄

Create   Delete   Show Details   ⚙️

	Bus Number	Bus Name	Source	Destination	Fare	Total Seats	DepartureTime
○	102	TSRTC	RAIPUR	AMARAVATI	2,000	3	1:00:00 AM >
○	103	KSRTC	BANGALORE	VISHAKHAPATNAM	500	2	5:35:35 PM >
○	104	SAI SHAKTI TRAVELS	MUMBAI	THANE	200	10	5:41:22 PM >

To improve is to change;

To be perfect is to change often.

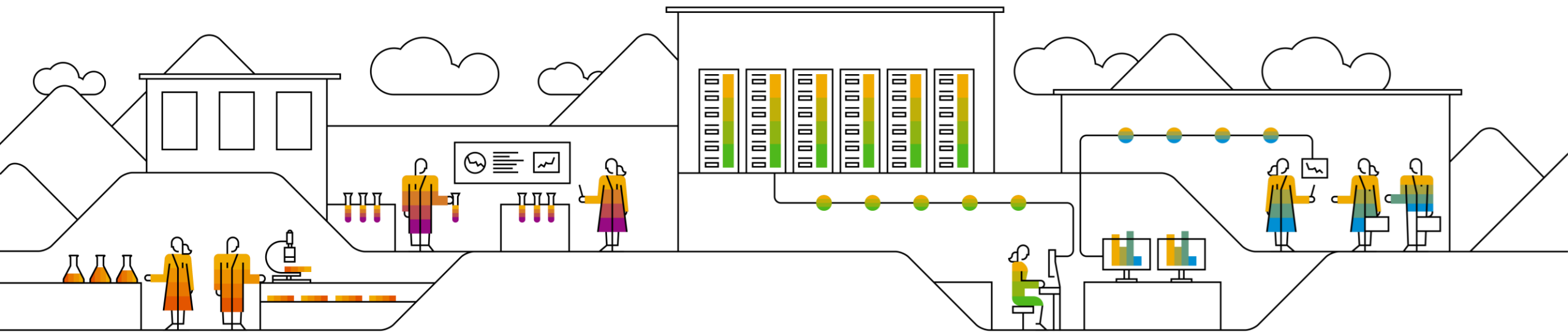**- Winston Churchill**

ER Diagram
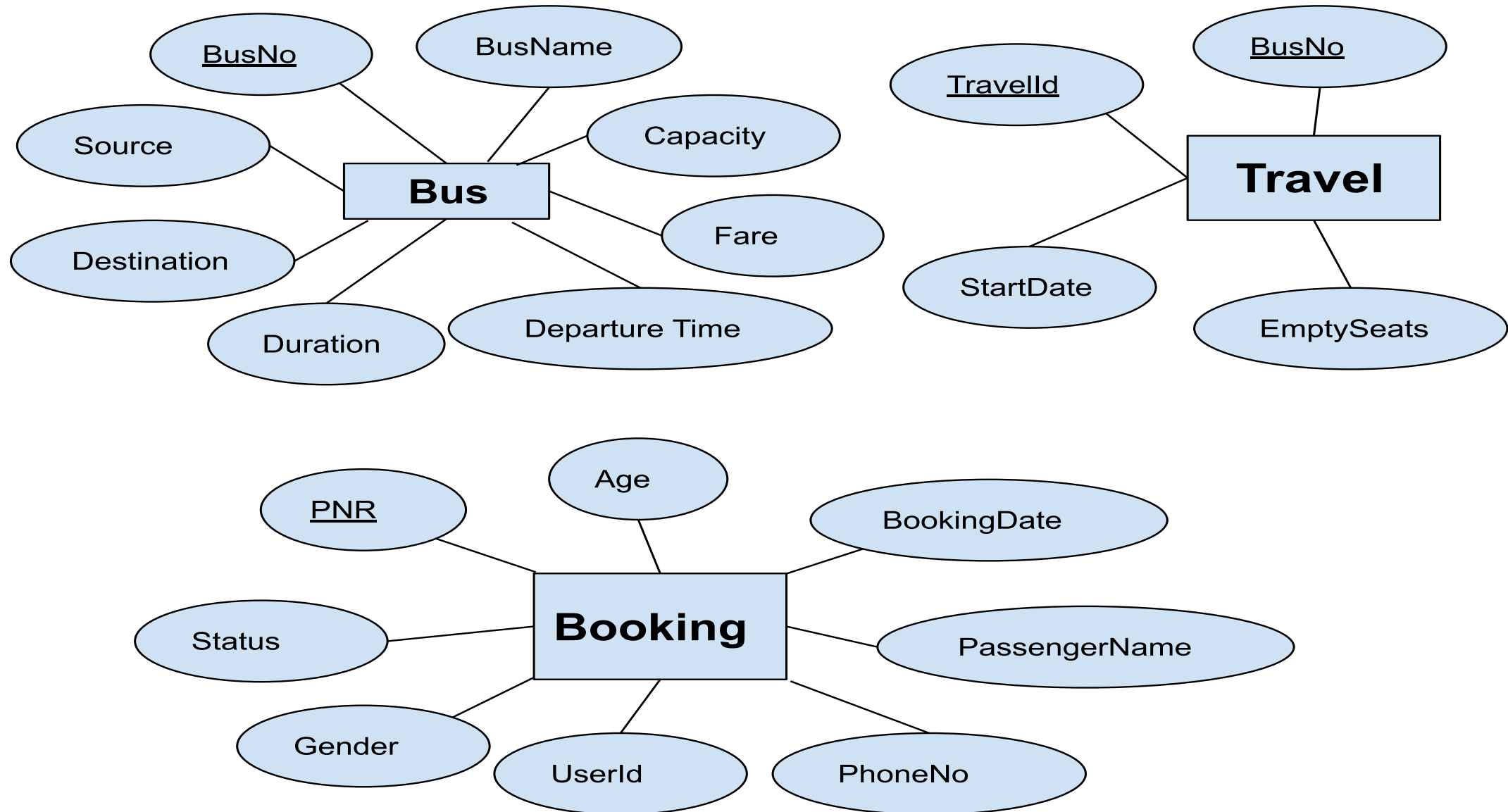
Functionalities

- Separate application for bus list report

- Cancellation of bookings and updating of waitlist

- Mandatory fields

- Validations

Assumptions

- Each bus runs the same route everyday

- No online payment

- Application is authenticated for one user

Demonstration

What we learnt

Technologies familiarized with:

- RESTful ABAP

- abapGit

- Fiori

- BTP – Business Application Studio

Others

- Experienced how real-time applications are developed

- Team collaboration and communication

- Debugging

- App deployment using BAS

Thank you.