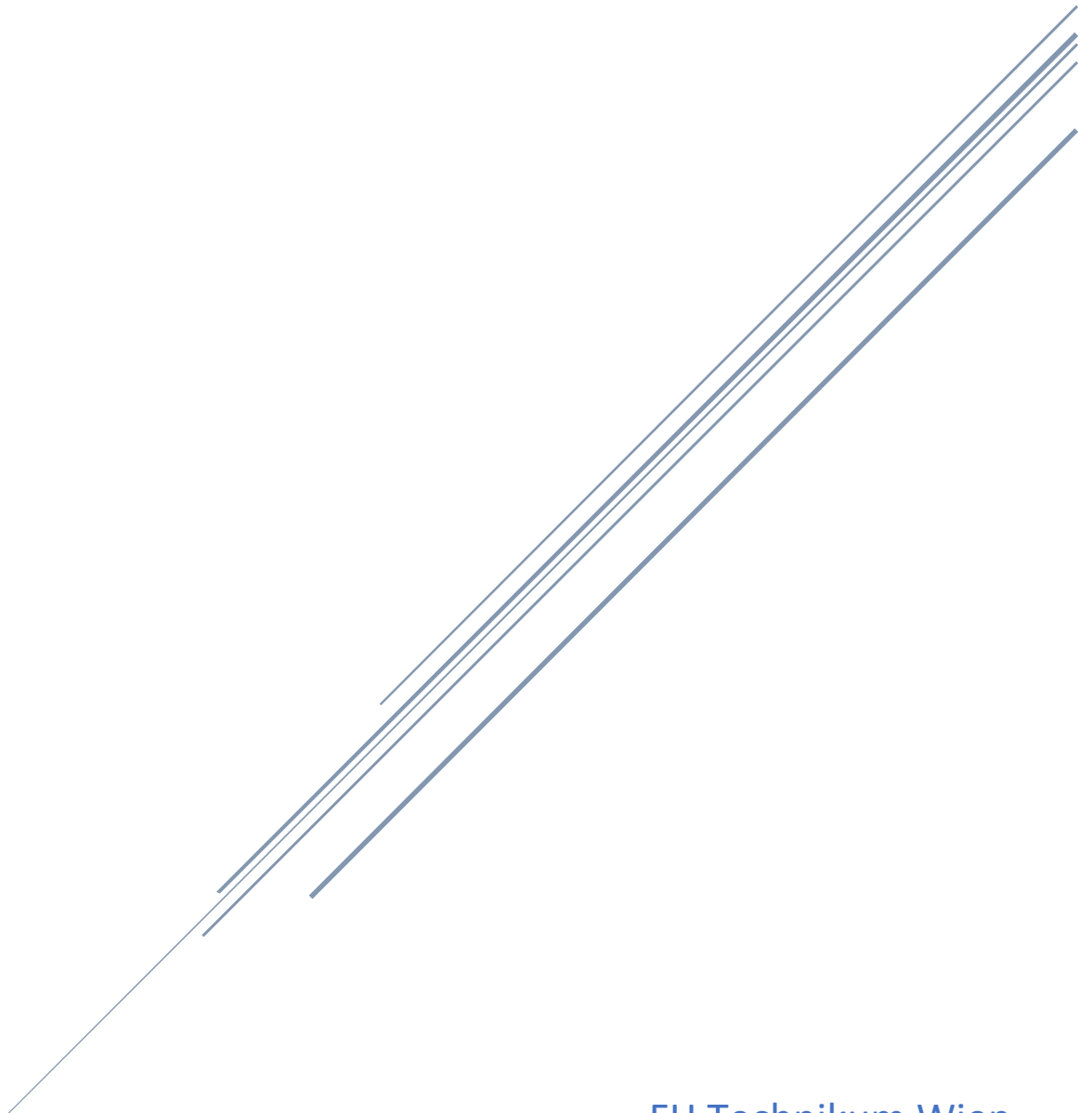


DEPLOYMENT MANUAL

Tour Planner Backend



FH Technikum Wien
SWEN 2

Contents

0. Prerequisites	1
0.1. Dockerized	1
0.2. Dockerless	1
1. Dockerized Deployment.....	1
1.1. Configuration	1
1.1.1. PostgreSQL	1
1.1.2. ASP.NET	2
1.2. Deployment.....	2
2. Dockerless Deployment	2

0. Prerequisites

To deploy the tour planner application as a REST backend service, you will need the following software:

0.1. Dockerized

- Docker and Docker-Compose
- Text editor
 - Configuration of docker-compose.yaml

0.2. Dockerless

- PostgreSQL database
 - Windows PgAdmin
 - Linux Postgres
- .NET Core 6.0 SDK
 - For building the ASP.Net application
- Text editor
 - Configuration of config.json

1. Dockerized Deployment

1.1. Configuration

To customize the docker containers, it is required to change the environment variables in the docker-compose file:

1.1.1. PostgreSQL

- POSTGRES_DB
 - The name of the database that PostgreSQL will use
- POSTGRES_USER
 - The username of the user that has read/write rights on the database
- POSTGRES_PASSWORD

- The password of the user of the database

1.1.2. ASP.NET

- MAPQUESTAPI_KEY
 - Insert the MapQuestAPI Key here
- DATABASE_NAME
 - Must be the same as POSTGRES_DB
- DATABASE_USERNAME
 - Must be the same as POSTGRES_USER
- DATABASE_PASSWORD
 - Must be the same as POSTGRES_PASSWORD
- DATABASE_ADDRESS
 - Do not change (postgres by default)
- DATABASE_PORT
 - Do not change (5432 by default)

1.2. Deployment

To start the container, go to the root directory of the TourPlanner application and open a command window. Then type in “docker-compose up -d”. After that the docker container listens on the ports 8080 and 8443 (can be changed in the docker-compose.yaml file).

2. Dockerless Deployment

First, it is mandatory to create a PostgreSQL database and build the ASP.NET application.

After that, please configure the config.json as follows:

- MAPQUESTAPI_KEY
 - Insert the MapQuestAPI Key here
- DATABASE_NAME
 - Must be the name of the PostgreSQL database
- DATABASE_USERNAME
 - Must be the username of the PostgreSQL database
- DATABASE_PASSWORD
 - Must be the password of the PostgreSQL database
- DATABASE_ADDRESS
 - Must be the address of the PostgreSQL database
- DATABASE_PORT
 - Must be the port of the PostgreSQL database

After the configuration is finished, run the database and then the ASP.Net application.