Deployment manual

Tour Planner Backend

FH Technikum Wien

SWEN 2

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# Prerequisites

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

## Dockerized

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

## Dockerless

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

# Dockerized Deployment

## Configuration

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

### 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

### 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)

## 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).

# 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.