Project #1 – Multi-Container App

Assignment #2 – Container Connectivity & Volumes

5th October 2022

Advanced Infrastructures for Data Science

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Master in Data Science and Engineering (MDSE) Course

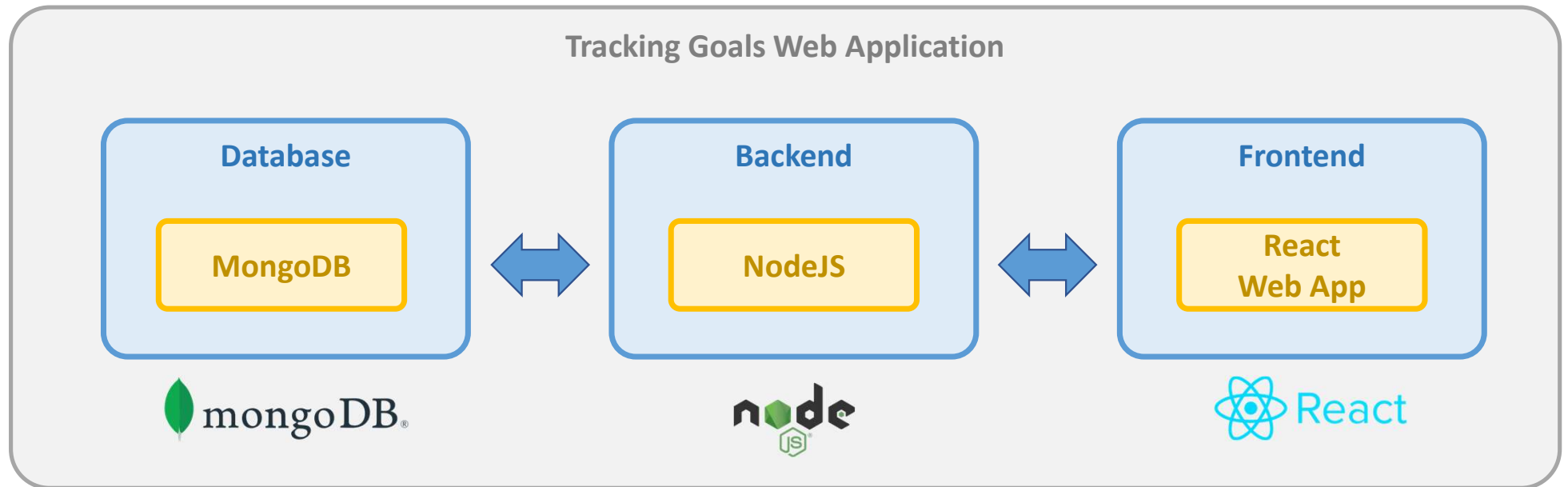# Project #1 – Multi-container App

Project Name: Tracking Goals Web Application

Project Objective: Deploy a multi-container app with Docker and Kubernetes

Web Application Description

Tracking Goal Web Application
App Objective, Architecture & Technologies

App Objective: Allows users to manage (create, view and delete) their goals

Tracking Goals Web Application

Database

MongoDB

Backend

NodeJS

Frontend

React Web App

Assignment #2
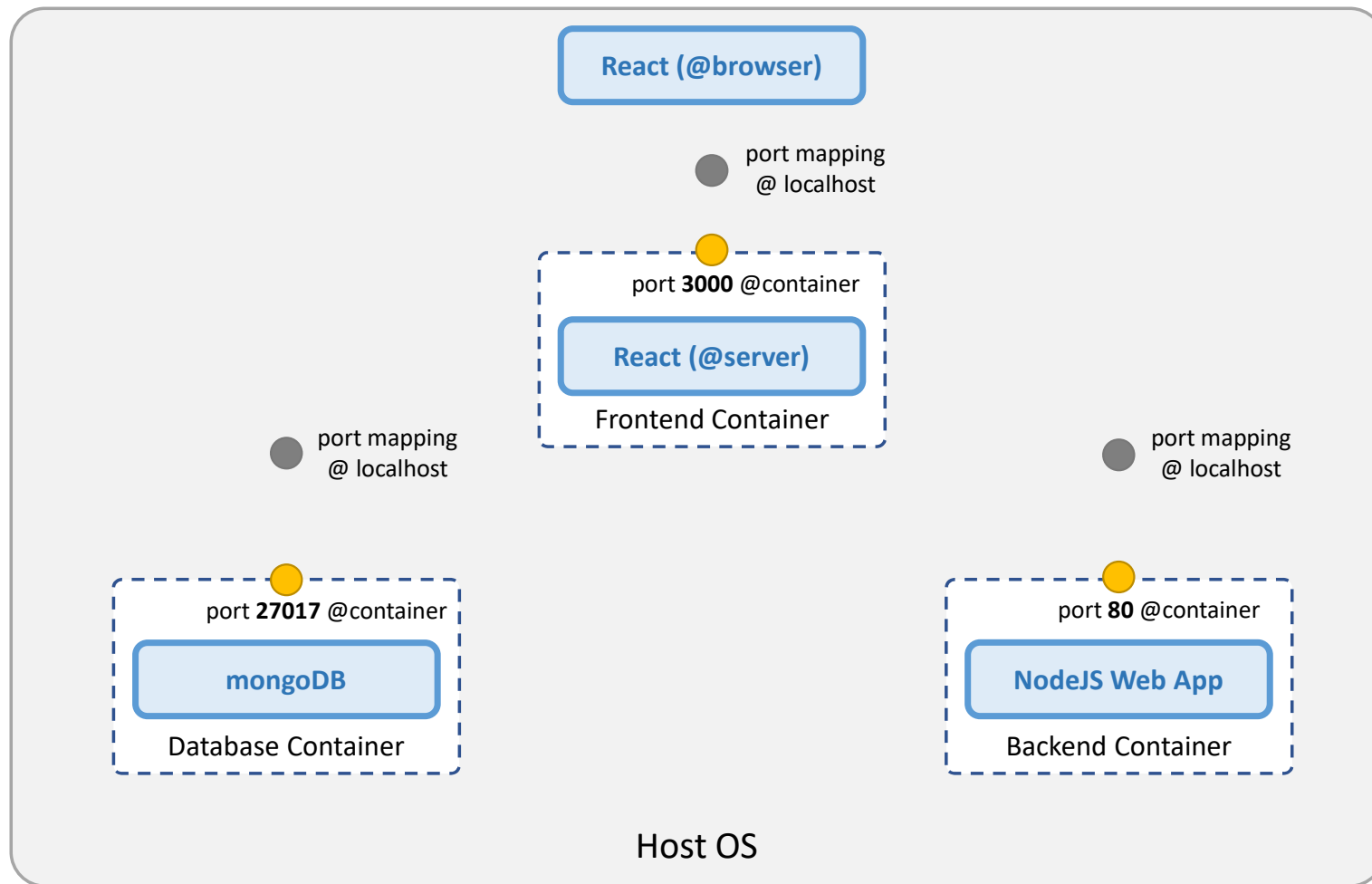
Project #1 Assignments

- Project #1
  - Assignment #1 (28th September): Build images and launch containers
  - Assignment #2 (5th October): Configure containers connectivity and data persistence
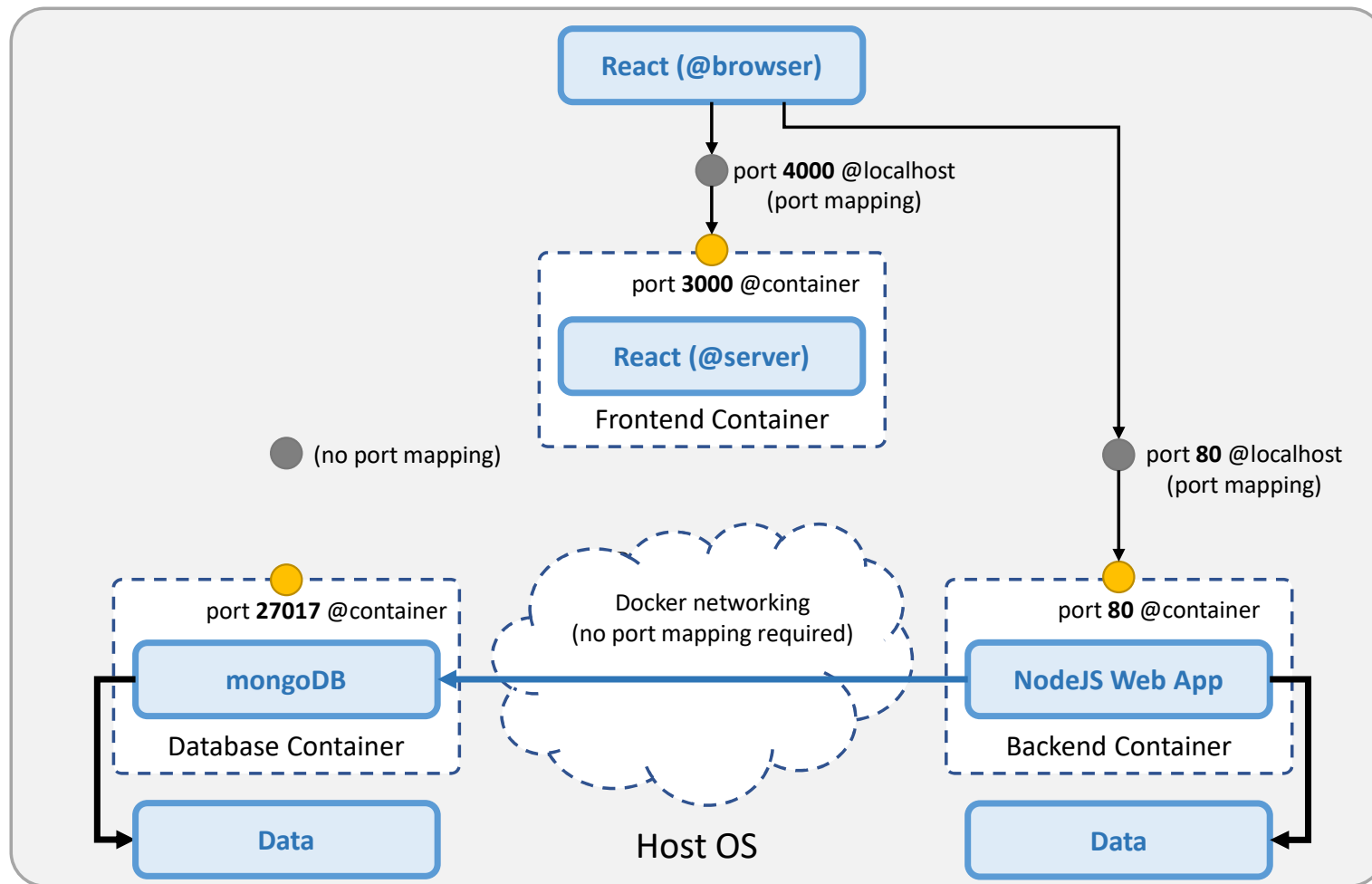
Assignment #2
Tasks

1. Connect the backend component with the database

2. Connect the frontend component with the backend component

3. Persist data from the Database
   - MongoDB stores data on the following path: /data/db

4. Persist data from the NodeJS Web App
   - Logs folder should be persisted

Assignment #1 Output

Assignment #2 Output

👍 Good Work