

Project #1 – Multi-Container App

Assignment #2 – Container Connectivity & Volumes

10th October 2024

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

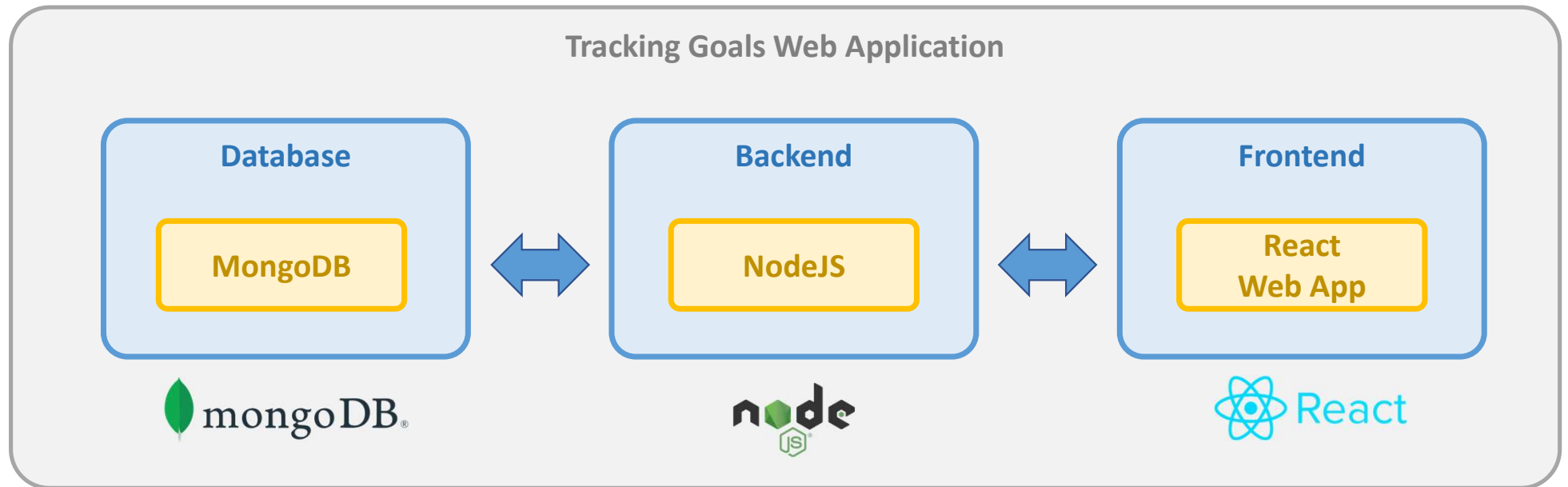
Project Objective: Deploy a multi-container app with Docker
and Kubernetes

Web Application Description

Tracking Goal Web Application

App Objective, Architecture & Technologies

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



Assignment #2

Project #1 Assignments

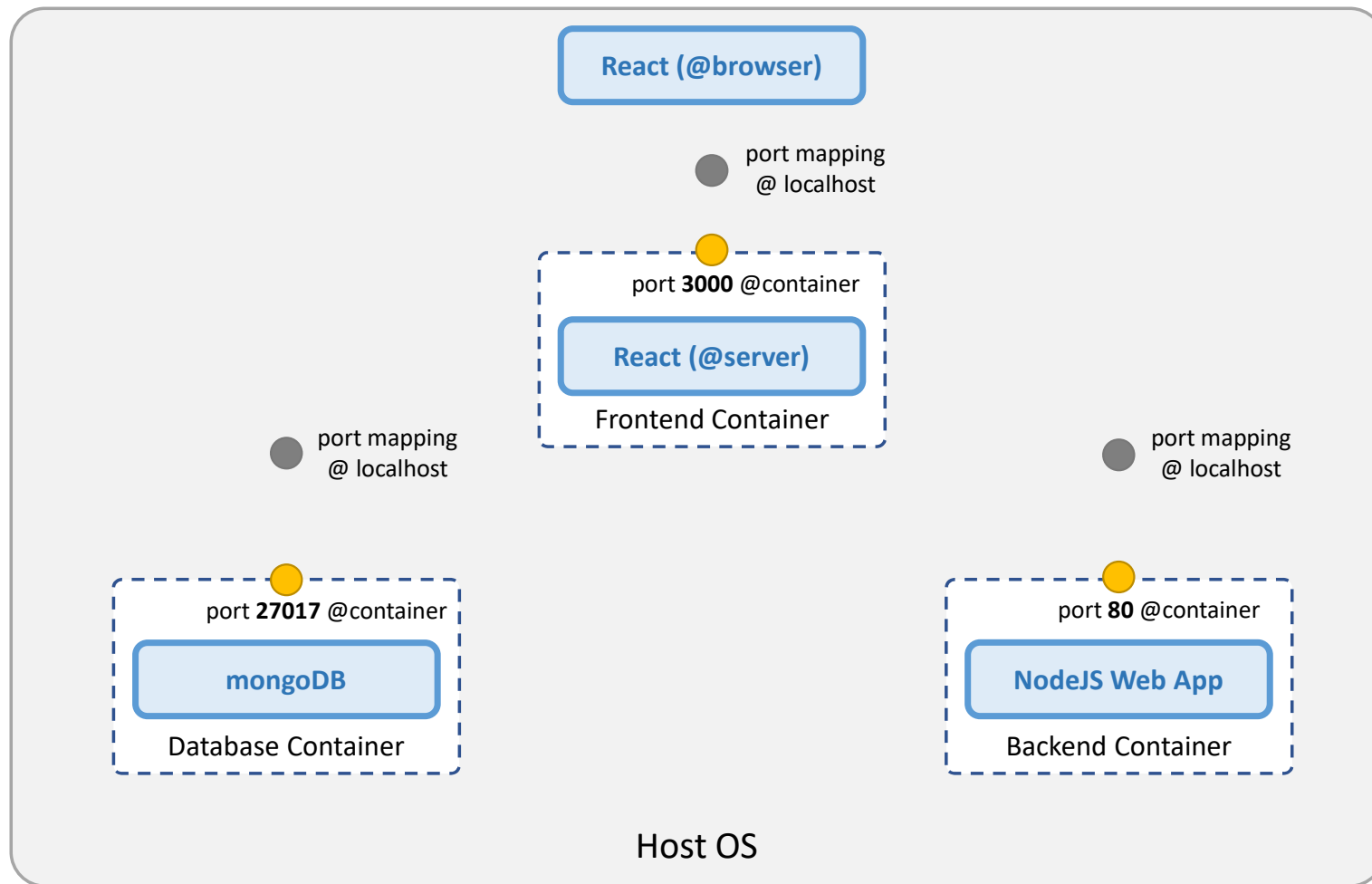
- Project #1
 - Assignment #1 (3rd October): Build images and launch containers
 - Assignment #2 (10th October): Configure containers connectivity and data persistence

Assignment #2

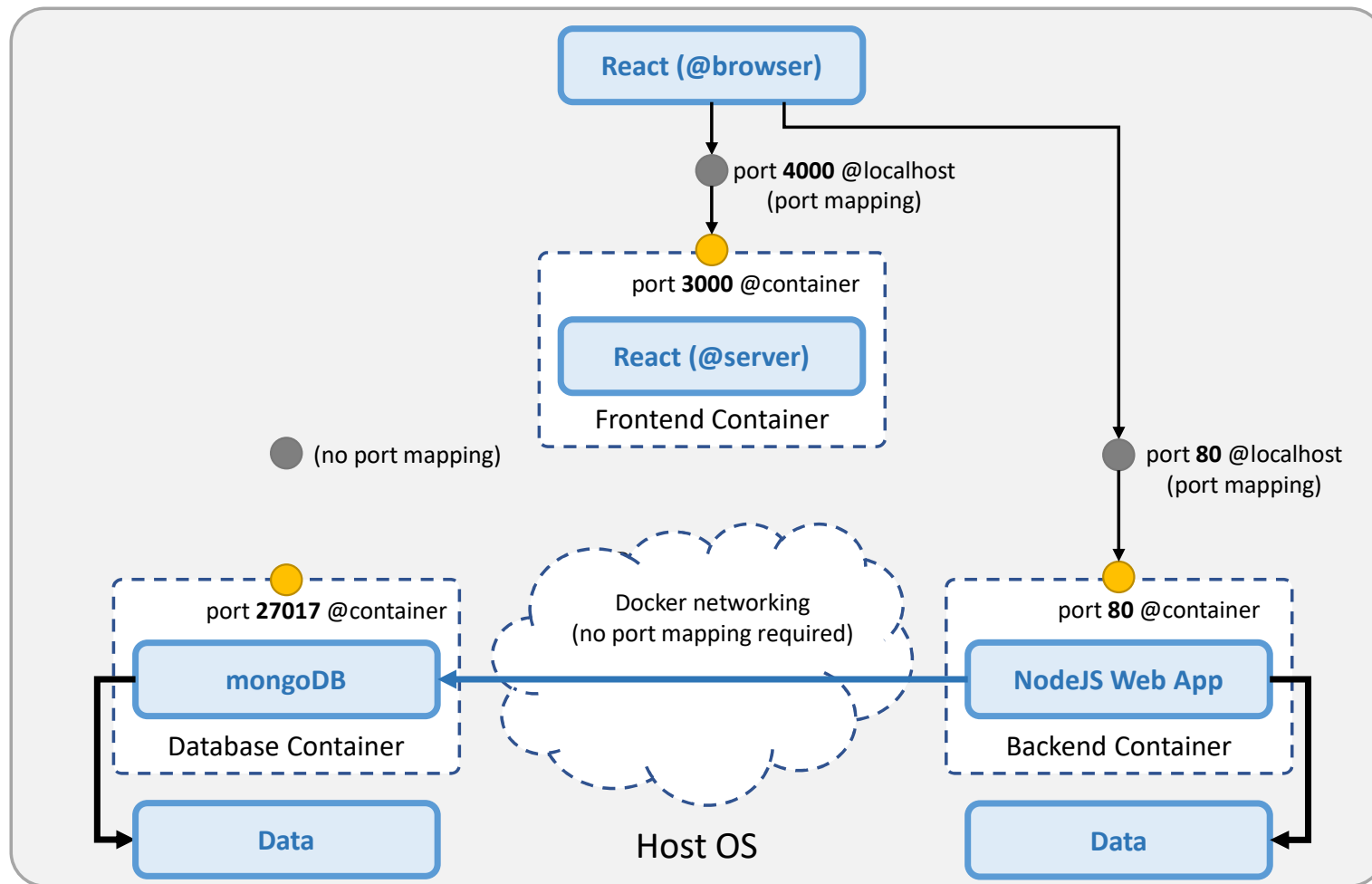
Tasks

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**