



Project #1 – Multi-Container App

Assignment #5 – Kubernetes Volumes & Connectivity

26th October 2023

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

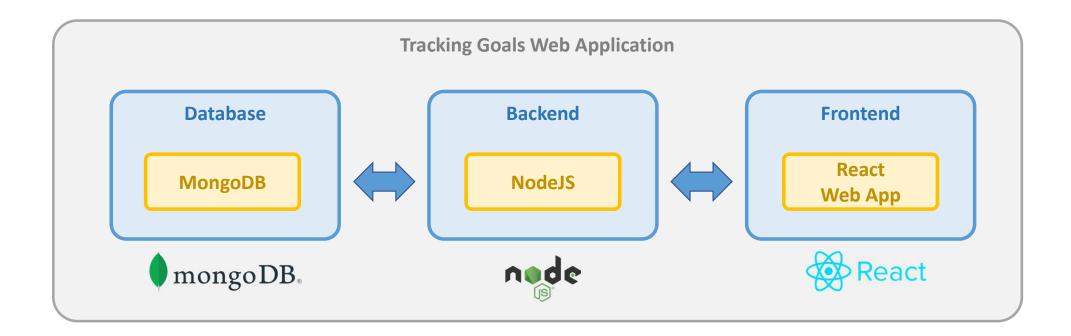
<u>Project Objective</u>: Deploy a multi-container app with Docker and Kubernetes

Web Application Description

Tracking Goal Web Application

App Objective, Architecture & Technologies

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



Assignment #5

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 #3 (12th October): Deploy the multi-container app through Docker Compose
- Assignment #4 (19th October): Deploy the multi-container app in a Kubernetes Cluster
- Assignment #5 (26th October): Configure the multi-container app with data persistence & connectivity

Assignment #5

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

