Work Protocol

Project is online: https://github.com/dreitn/imseNew → check the commits for workload

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You can find detailed explanation about the design in the IMSE_NoSQL_DB file.

Docker Compose: docker-compose.yml is provided in the project root directory. The .jar file fills up MariaDB with some example data. Java

Run with: $ docker-compose up

Web site: You can reach the web pages with writing "localhost" in the browser. We used a ready/styled css file. (-> bootstrap.css from the Website https://datatables.net/)

Data Filling: The test data will be created and inserted to database in with using .jar file from M2 where we already used java class "DataGenerator.java" and you can find it in the file "java_2/src". The process will be executed automatically with the docker compose. → we created .jar from java application and added into docker compose

Migration: to migarte the database, you shoul run our java application "mongo_app.jar" in the folder which also contains the source code. Alternative would be import the project and run with an IDE.

Main Use Case: The database is already filled with java applications from a docker container and migrated to MariaDB with fake data. Users are able to rent a specific car with customer information such as customer email and they can also search a car in the database with car information. If it is not rented (all rented cars in the reservation collection in the system), users can rent the car successfully.

Report Use Case: There are all document in the system and a user can search any attributes of any entity in any document easily.

Use Case 1: finding the all locations in the costumer collection. Then we can calculate the ratio of selection of a location by a costumer and also in general.

Use Case 2: Finding all bills total amount and sum them up at the end to calculate the companies profit from each costumer.