General objective

Implementing an application on the specified subject, with a REST-ful backend which accesses data stored in a relational database through an ORM. The backend is used from a React SPA frontend.

Description

Implementing a REST service and a React interface for the following entities: - Spacecraft - Astronaut

Spacecraft has many Astronaut. Spacecraft has an id (integer, primary key), a name (string of at least 3 characters), a maximum speed (a number greater than 1000), a mass (a number greater than 200). Astronaut has an id (integer, primary key), a name (string of at least 5 characters), a role (from a limited set of possible roles e.g. COMMANDER, PILOT).

Graded components and detailed points

• REST service

◦ Defining the first entity - 0.3

◦ Defining the second entity - 0.3

◦ Defining the relation between the two entities - 0.3

◦ GET operation for the first entity - 0.3

◦ POST operation for the first entity - 0.3

◦ PUT operation for the first entity - 0.3

◦ DELETE operation for the second entity as a child resource - 0.3

◦ GET operation for the second entity as a child resource - 0.3

◦ POST operation for the second entity as a child resource - 0.3

◦ PUT operation for the second entity as a child resource - 0.3

◦ DELETE operation for the second entity as a child resource - 0.3

◦ Filtering on two fields for the first entity - 0.3

◦ Sorting on a field for the first entity - 0.3

◦ Paging for the first entity - 0.3

◦ Import - 0.2

◦ Export - 0.2

• SPA interface in React

◦ Routing to the child entity based on the parent's id - 0.3

◦ Create for the first entity - 0.3

◦ Read for the first entity - 0.3

◦ Update for the first entity - 0.3

◦ Delete for the first entity - 0.3

◦ Create for the second entity (master-detail, based on the id of the parent) - 0.3

◦ Read for the second entity (master-detail, based on the id of the parent) - 0.3

◦ Update for the second entity (master-detail, based on the id of the parent) - 0.3

◦ Delete for the second entity (master-detail, based on the id of the parent) - 0.3

◦ Filtrare on two fields for the first entity - 0.3

◦ Sortare on a field for the first entity - 0.3

◦ Paginare for the first entity - 0.3

◦ Interfață import - 0.2

◦ Interfața export - 0.2

◦ Layout cu grid/flex - 0.4

• Punctaj din oficiu] - 10%

Notes

• If the application does not run on Heroku a 10% penalty is applied

• If the video is not uploaded, the submission will not be graded

• After finalizing your submission, upload its components here