Anlage zur Übung E3, Software Engineering SE-2 Anlage zu E3

Definieren Sie die REST-Operationen mit Pfad, Parametern, JSON-Objekten in Request- und Response-Bodies sowie Status Codes für die in Aufgabe G1 genannten Aufgaben der Endpunkte: /reservations, /vehicles und /availabilities.

Orientieren Sie sich an dem Beispiel für GET /customers/{id}.

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| HTTP-OP, Path | HTTP Request | HTTP Response |
| **GET** /customers/{id}  (Beispiel) | **Param:** {id}.  **Body:** Request Body leer. | **Resp.-Body:** Liste von Customer-Obj. nach Schema: *CustomerDTO*.  **Status Codes:**  - 200: OK;  - 400: BAD REQ, 404: NOT FOUND… |
| **GET**  /vehicles  (Retrieval of all vehicles)  (Read) | **Param:** No Parameter.  **Body:** Request Body leer. | **Resp.-Body:** List von Vehicle-objects in JSON format. Nach Schema: *VehicleDTO.*  **Status Codes:**  200: OK (For successful retrieval). |
| **GET**  /vehicles/{id}  (Retrieval of specific vehicle by ID)  (Read) | **Param:** {id}.  **Body:** Request Body leer. | **Resp.-Body:** List von Vehicle-Object in JSON-Format. nach Schema: *VehicleDTO*.  **Status Codes:**  200: OK (For successful retrieval),  404: NOT FOUND (If the requested vehicle by ID does not exist),  400: BAD REQUEST (For other error conditions). |
| **GET**  /reservations (Retrieval of all vehicles)  (Read) | **Param:** No Parameter.  **Body:** Request Body leer. | **Resp.-Body:** List von Reservation-Object in JSON-Format. nach Schema: *ReservationDTO*.  **Status Codes:**  200: OK (For successful retrieval). |
| **GET**  /reservations/{id}  (Retrieval of specific reservation by ID)  (Read) | **Param:** {id}.  **Body:** Request Body leer. | **Resp.-Body:** List von Reservation-Object in JSON-Format. nach Schema: *ReservationDTO*.  **Status Codes:**  200: OK (For successful retrieval),  404: NOT FOUND (If the requested vehicle by ID does not exist),  400: BAD REQUEST (For other error conditions). |
| **POST**  /reservations  (Create) | **Body:** create new Reservation-Object in JSON format. Nach Schema: *ReservationRequestDTO.* | **Resp.-Body:** Created Reservation-Object in JSON-Format. nach Schema: *ReservationDTO*.  **Status Codes:**  201 CREATED,  400 BAD REQUEST (json body),  409 CONFLICT. |
| **PUT**  /reservations  (Update) | **Body**: Update existing Reservation-Object in JSON format. Nach Schema: *ReservationUpdateDTO.* | **Resp.-Body:** Updated Reservation-Object in JSON-Format. nach Schema: *ReservationDTO*.  **Status Codes:**  202: accepted;  404: NOT FOUND (json body);  400: BAD REQUEST (For validation errors or other error conditions); |
| **DELETE**  /reservations/{id}  (Delete) | **Param:** {id}.  **Body:** Request Body leer. | **Resp.-Body:** Response Body leer.  **Status Codes:**  204: NO CONTENT (For successful deletion);  404: NOT FOUND (If the requested reservation by ID does not exist);  400: BAD REQUEST (For other error conditions);  409: CONFLICT (foreign key dependency); |
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