

**1.Post: POST /api/BloodBank**

This endpoint accepts the creation of a new blood bank entry. Here are the detailed validations that are performed when a request is made to this endpoint:

**Age Validation**

* **Condition**: The donor’s age must be between 18 and 65 years.
* **Error Message**: Age must be between 18 and 65.

**Quantity Validation**

* **Condition**: The quantity of blood must be greater than 0.
* **Error Message**:Quantity should be greater than 0.

**Contact Info Validation**

* **Condition**: The contact information (email) must be a valid email address (i.e., no "@" symbol).
* **Error Message**:ContactInfo must be a valid email.

**Collection Date Validation**

* **Condition**: The collection date should not be in the future.
* **Error Message**: CollectionDate cannot be in the future.

**Expiration Date Validation**

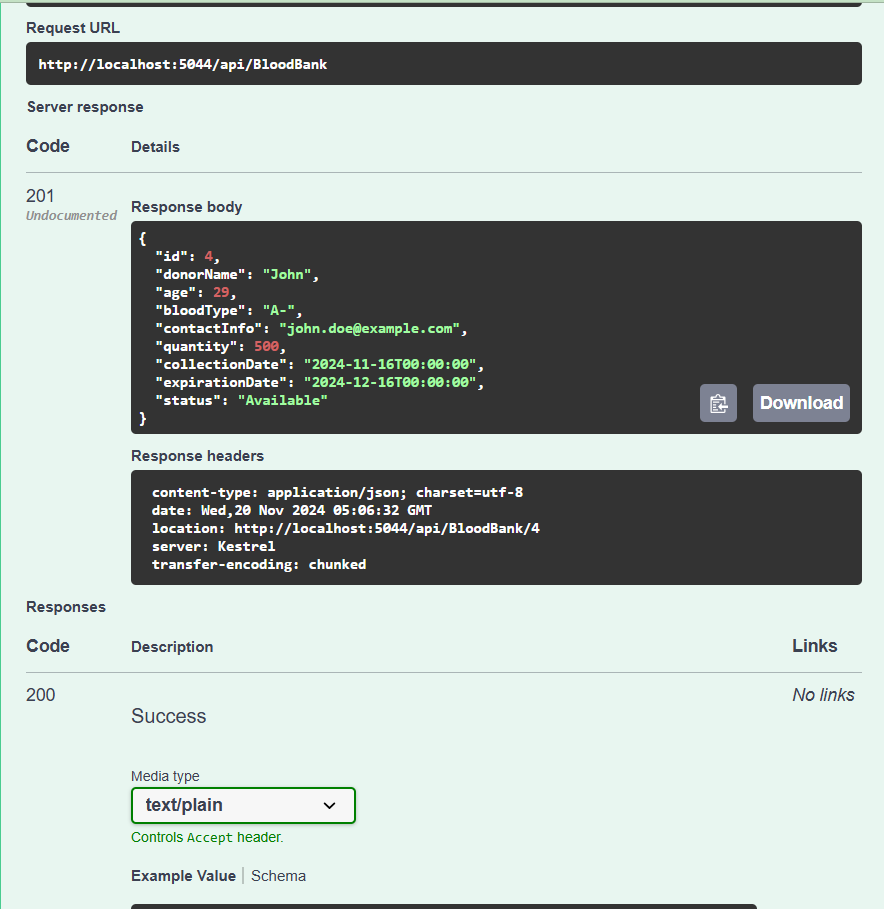
* **Condition**: The expiration date must be after the collection date.
* **Error Message**:ExpirationDate must be after CollectionDate.

**Status Validation**

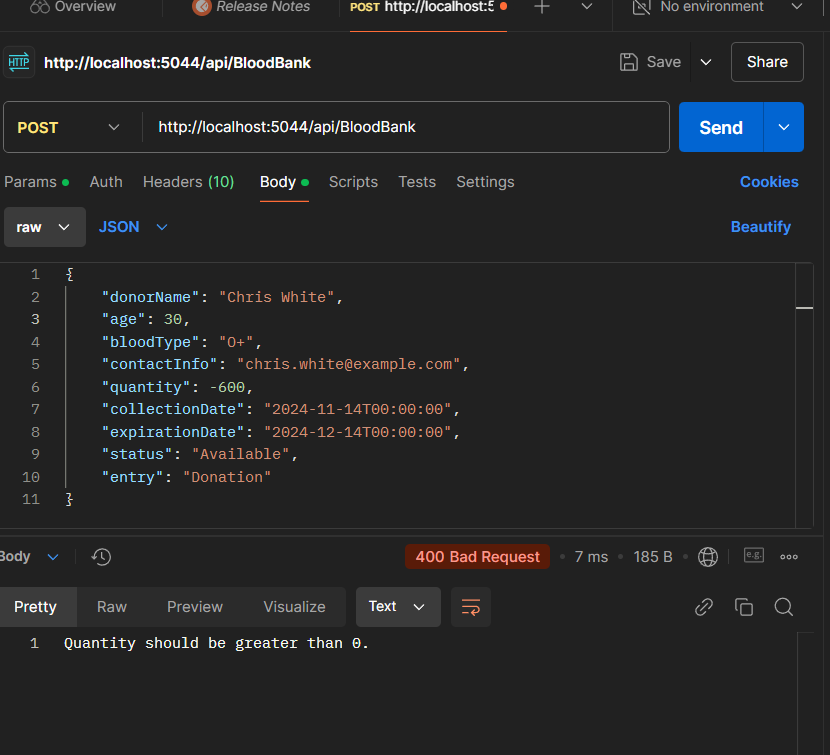
* **Condition**: The status must be one of the following: "Available", "Requested", or "Expired".
* **Error Message**:Status not valid

If any of the above validation conditions are not met, a **Bad Request (400)** response is returned with the specific error messages for each failed validation.

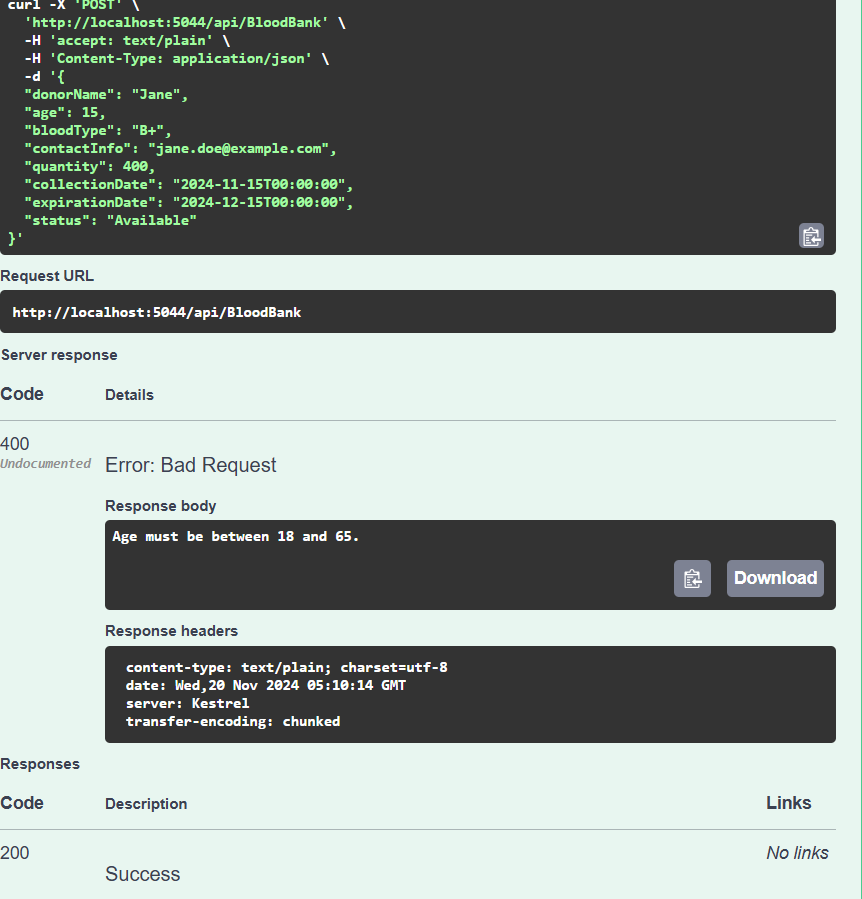
Valid post request:



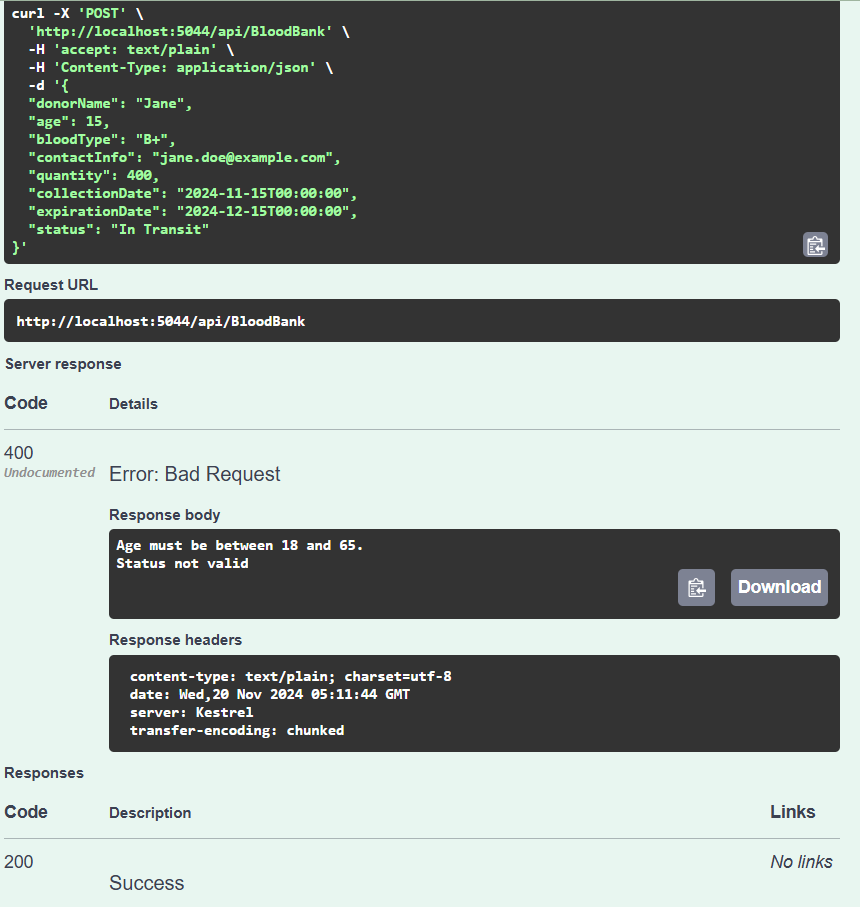
Invalid Quantity:



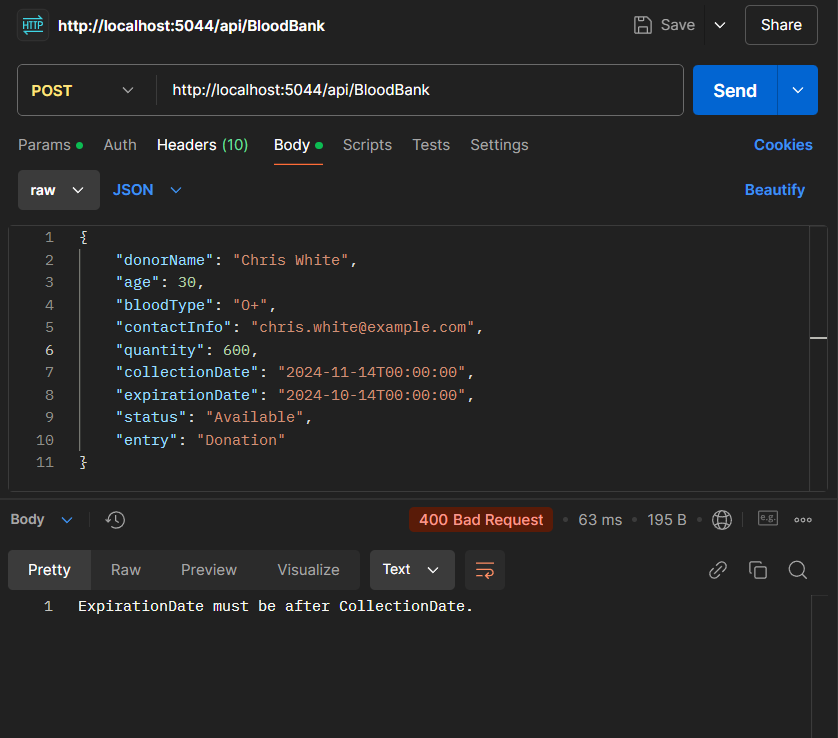
Invalid Age:



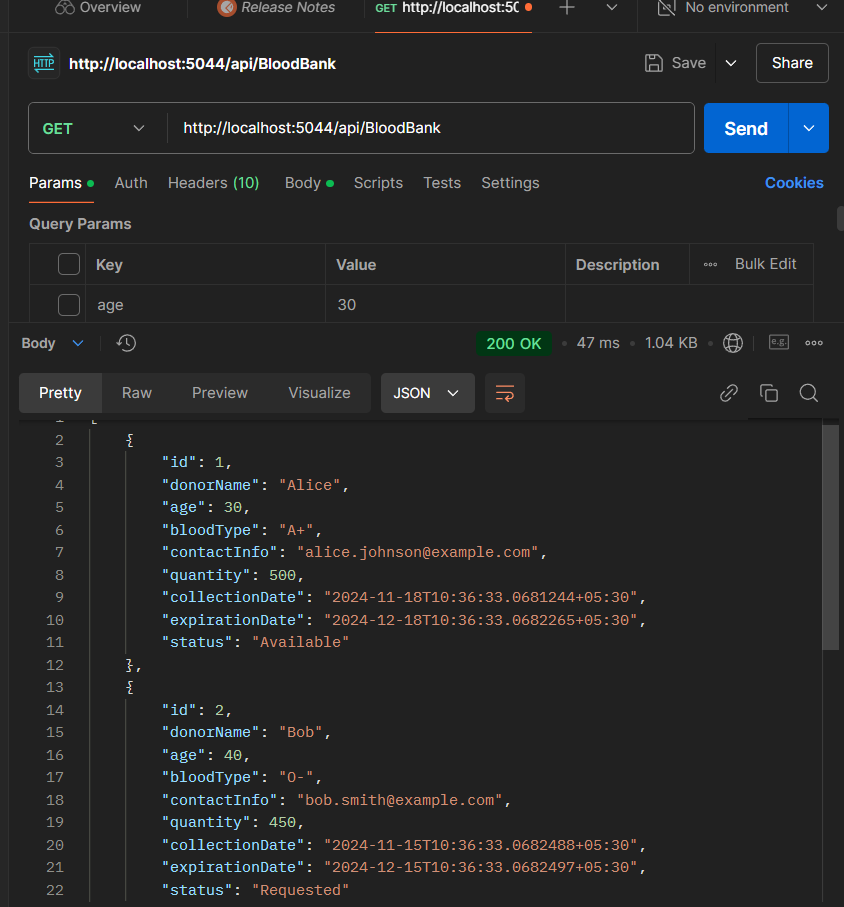
Invalid Status

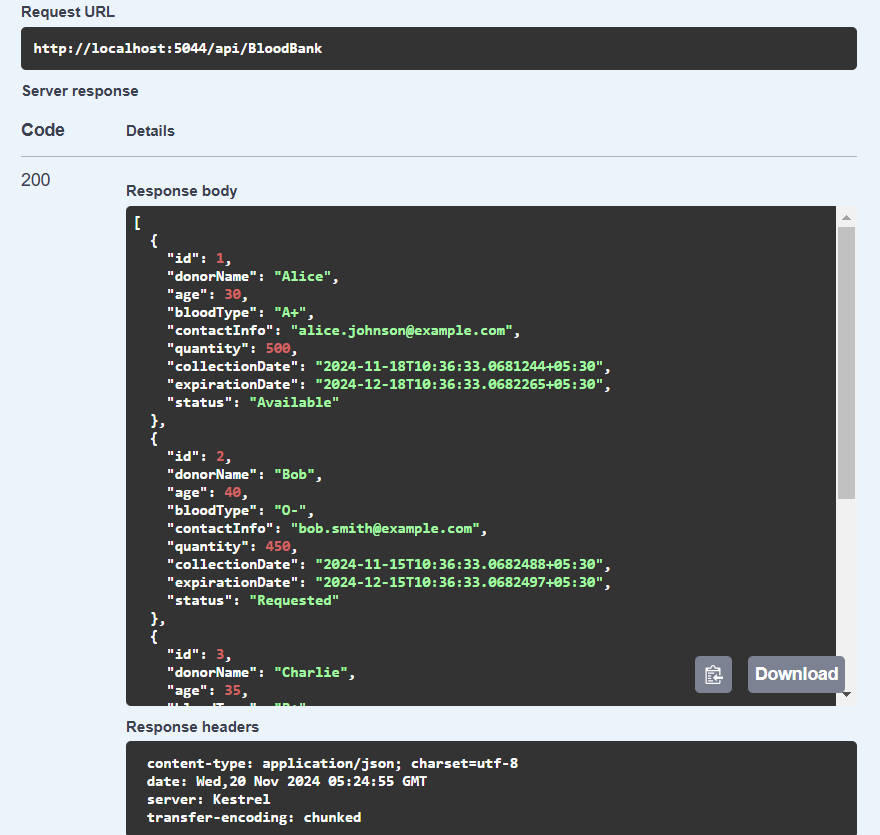


Invalid ExpirationDate

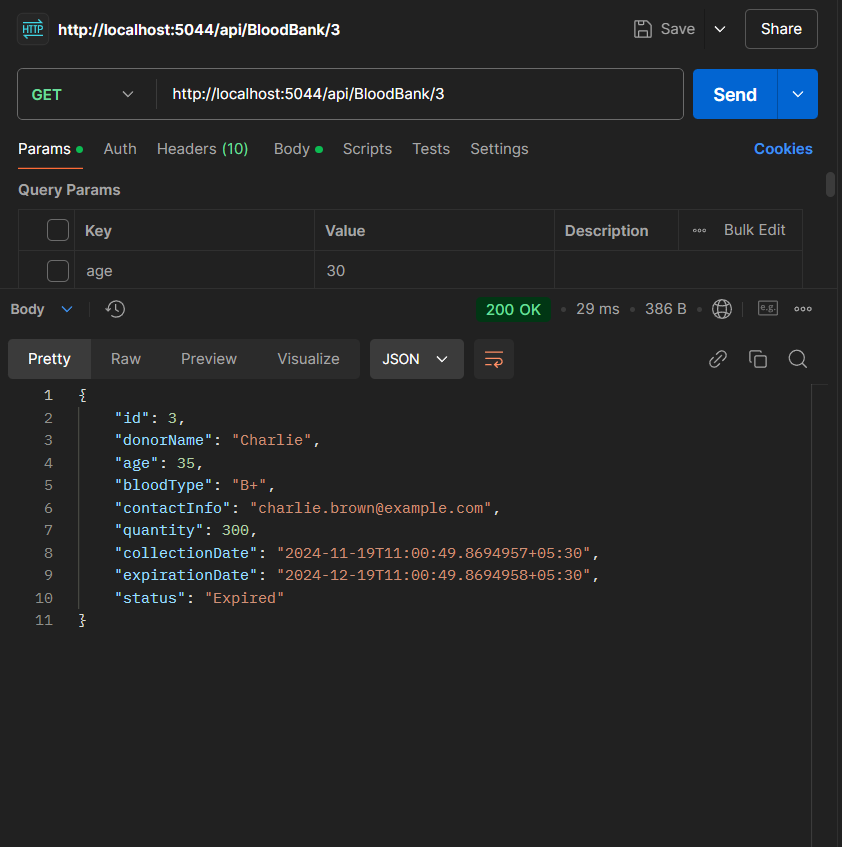


**2.Get: GET /api/BloodBank** – Get all blood bank entries

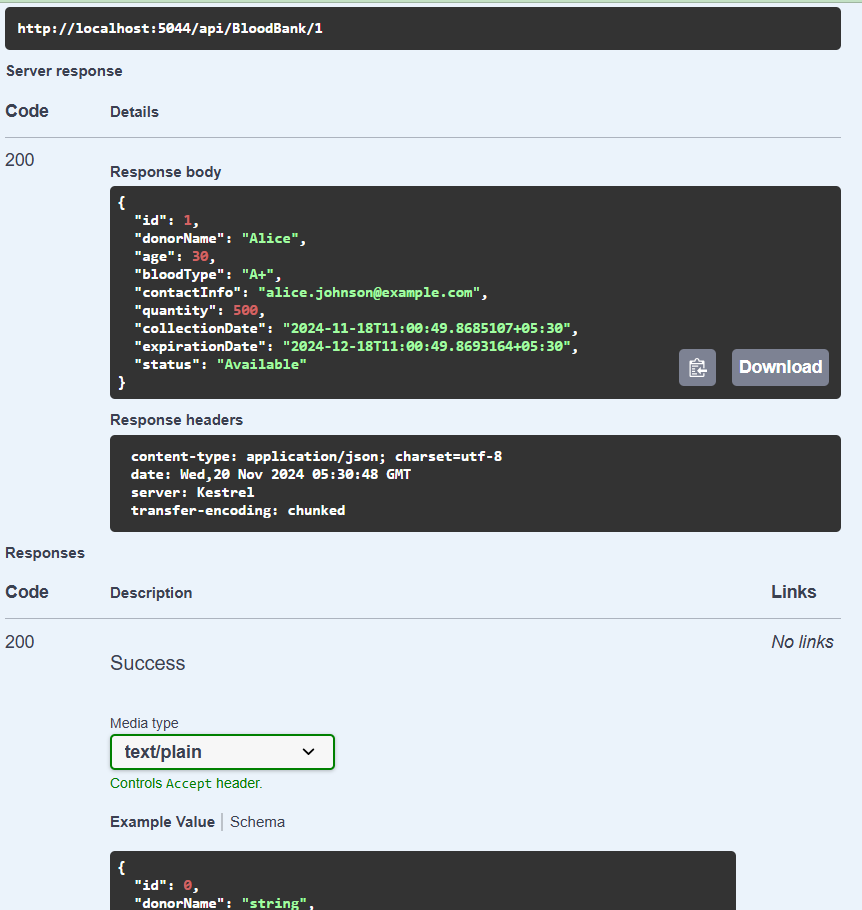




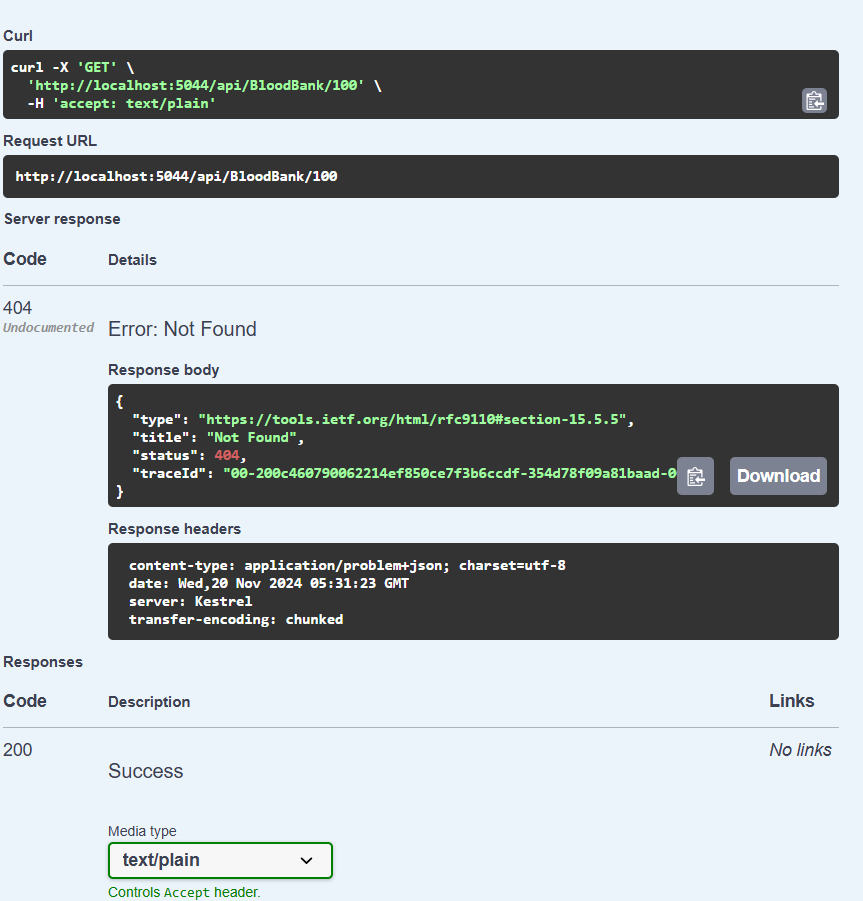
**3. GET /api/BloodBank/{id}** – Get blood bank entry by ID

This test case checks that a valid blood bank entry can be retrieved by specifying its ID in the URL. The system should return the corresponding blood bank details if the ID exists. The response should include the requested entry with an HTTP status of 200 OK.  
  
Valid: when id=3  


Valid when id=1:



**Invalid: Id =100 does not exist**



**4. PUT /api/BloodBank/{id}** – Update an existing blood bank entry