

API assignment Submission By Prashant

1. Get all entries with filter and sort

Swagger Output

Swagger

Select a definition PrBloodBankAPI v1

PrBloodBankAPI

1.0 OAS 3.0

https://localhost:7106/swagger/v1/swagger.json

BloodBank

POST /api/BloodBank

GET /api/BloodBank

Parameters

Name	Description
sortBy	bloodType
sortOrder	asc
bloodType	bloodType
status	status
donorName	donorName
startDate	startDate
endDate	endDate
minAge	20
maxAge	30

Execute

Clear

Responses

Curl

curl -X 'GET' \n 'https://localhost:7106/api/BloodBank?sortBy=bloodType&minAge=20&maxAge=30' \n -H 'accept: text/plain'

Request URL

https://localhost:7106/api/BloodBank?sortBy=bloodType&minAge=20&maxAge=30

Server response

Code

Details

200

Response body

```
{
  "id": 1,
  "donorName": "Prashant",
  "age": 28,
  "bloodType": "A+",
  "contactInfo": "prashant2003@gmail.com",
  "quantity": 450,
  "collectionDate": "2024-11-17T15:11:47.0310812+05:30",
  "expirationDate": "2024-12-29T15:11:47.031141+05:30",
  "status": "Available"
},
{
  "id": 8,
  "donorName": "Meera Garcia",
  "age": 27,
  "bloodType": "AB-",
  "contactInfo": "m.garcia@email.com",
  "quantity": 350,
  "collectionDate": "2024-10-08T15:11:47.0320667+05:30",
  "expirationDate": "2024-11-19T15:11:47.0320668+05:30",
  "status": "Available"
},
{
  "id": 4,
  "donorName": "Emita Kumari",
  "age": 29,
  "bloodType": "AB+",

```

Response headers

```
content-type: application/json; charset=utf-8
date: Sun, 17 Nov 2024 09:48:32 GMT
server: Kestrel
```

Responses

Code

Description

Links

200

OK

No links

Media type

text/plain

Controls Accept header.

Example Value

Schema

```
{
  "id": 0,
  "donorName": "string",
  "age": 6,
  "bloodType": "str",
  "contactInfo": "string",
  "quantity": 500,
  "collectionDate": "2024-11-17T09:48:48.415Z",
  "expirationDate": "2024-11-17T09:48:48.415Z",
  "status": "string"
}
```

Postman output (Combined sorting and filtering)

`https://localhost:7106/api/BloodBank?sortBy=bloodType&minAge=20&maxAge=30`

The screenshot shows the Postman interface with a GET request to `https://localhost:7106/api/BloodBank?sortBy=bloodType&minAge=20&maxAge=30`. The request is successful (200 OK). The response body is a JSON array of two donor objects.

Key	Value	Description
<input checked="" type="checkbox"/> Key		
<input checked="" type="checkbox"/> sortBy	bloodType	
<input checked="" type="checkbox"/> minAge	20	
<input checked="" type="checkbox"/> maxAge	30	
<input type="checkbox"/> Key		

```
1 [
2   {
3     "id": 1,
4     "donorName": "Prashant",
5     "age": 28,
6     "bloodType": "A+",
7     "contactInfo": "prashant2003@gmail.com",
8     "quantity": 450,
9     "collectionDate": "2024-11-17T15:11:47.0310812+05:30",
10    "expirationDate": "2024-12-29T15:11:47.031141+05:30",
11    "status": "Available"
12  },
13  {
14    "id": 8,
15    "donorName": "Meera Garcia",
```

sortOrder: "asc" or "desc"

Filtering

bloodType: Blood type (e.g., "A+", "O-")

status: Entry status (e.g., "Available", "Requested")

donorName: Donor's name (partial match)

startDate: Collection date range start

endDate: Collection date range end

minAge: Minimum donor age

maxAge: Maximum donor age

2. Get entry by ID: api/BloodBank/{id}

Swagger output

GET /api/BloodBank/{id}

Parameters

Name

Description

id * required

integer(\$int32)

(path)

5

Execute

Clear

Responses

Curl

```
curl -X 'GET' \
  'https://localhost:7106/api/BloodBank/5' \
  -H 'accept: text/plain'
```

Request URL

https://localhost:7106/api/BloodBank/5

Server response

Code

Details

200

Response body

```
{
  "id": 5,
  "donorName": "Robert Munder",
  "age": 45,
  "bloodType": "O+",
  "contactInfo": "r.munder@email.com",
  "quantity": 500,
  "collectionDate": "2024-10-28T15:11:47.0320649+05:30",
  "expirationDate": "2024-12-09T15:11:47.032065+05:30",
  "status": "Requested"
}
```

Download

Response headers

```
content-type: application/json; charset=utf-8
date: Sun, 17 Nov 2024 10:37:30 GMT
```

Postman output

Workspaces More

GET https://localhost:7106/a

https://localhost:7106/api/BloodBank/5

GET https://localhost:7106/api/BloodBank/5

Send

Params Auth Headers (27) Body Scripts Settings Cookies

Query Params

Key	Value	Description
Key	Value	Description

Body 200 OK 140 ms 386 B

Pretty Raw Preview Visualize JSON

```
1 {
2   "id": 5,
3   "donorName": "Robert Munder",
4   "age": 45,
5   "bloodType": "O+",
6   "contactInfo": "r.munder@email.com",
7   "quantity": 500,
8   "collectionDate": "2024-10-28T15:11:47.0320649+05:30",
9   "expirationDate": "2024-12-09T15:11:47.032065+05:30",
10  "status": "Requested"
11 }
```

Console Postbot Runner Vault

3. Entry of new record: (api/BloodBank/{id})

Entered invalid data for error handling demonstration.

POST /api/BloodBank

Parameters

No parameters

Request body

application/json

```
{  "id": 11,  "donorName": "New Entry",  "age": 65,  "bloodType": "A+",  "contactInfo": "newone@gmail.com",  "quantity": 300,  "collectionDate": "2024-11-17T10:00:00",  "expirationDate": "2024-11-17T10:00:00",  "status": "Available"}}
```

Execute

Clear

Responses

Curl

```
curl -X 'POST' \  'https://localhost:7106/api/BloodBank' \  -H 'accept: text/plain' \  -H 'Content-Type: application/json' \  -d '{  "id": 11,  "donorName": "New Entry",  "age": 65,  "bloodType": "A+",  "contactInfo": "newone@gmail.com",  "quantity": 300,  "collectionDate": "2024-11-17T10:00:00",  "expirationDate": "2024-11-17T10:00:00",  "status": "Available"}'
```

Request URL

```
https://localhost:7106/api/BloodBank
```

Server response

Code	Details
400 <i>Undocumented</i>	Error: response status is 400 Response body Expiration date must be after collection date

Expiration date must be after collection date

Entering Valid data

```
{  "id": 11, "donorName": "New Entry",  "age": 65,  "bloodType": "A+",  "contactInfo": "newone@gmail.com",  "quantity": 300,  "collectionDate": "2024-11-17T10:00:00",  "expirationDate": "2024-12-29T10:00:00",  "status": "Available"}}
```

BloodBank

POST

/api/BloodBank

Parameters

Cancel

Reset

No parameters

Request body

application/json

```
{
  "id": 11,
  "donorName": "New Entry",
  "age": 65,
  "bloodType": "A+",
  "contactInfo": "newone@gmail.com",
  "quantity": 300,
  "collectionDate": "2024-11-17T10:00:00",
  "expirationDate": "2024-12-29T10:00:00",
  "status": "Available"
}
```

Execute

Clear

Responses

Request URL

https://localhost:7106/api/BloodBank

Server response

Code

Details

201

Undocumented

Response body

```
{
  "id": 11,
  "donorName": "New Entry",
  "age": 65,
  "bloodType": "A+",
  "contactInfo": "newone@gmail.com",
  "quantity": 300,
  "collectionDate": "2024-11-17T10:00:00",
  "expirationDate": "2024-12-29T10:00:00",
  "status": "Available"
}
```

Download

Response headers

```
content-type: application/json; charset=utf-8
date: Sun, 17 Nov 2024 10:58:25 GMT
location: https://localhost:7106/api/BloodBank/11
server: Kestrel
```

Responses

Code	Description	Links
200	OK	No links

Media type

text/plain

Controls Accept header.

Example Value

Schema

```
{
  "id": 0,
  "donorName": "string",
  "age": 65,
  "bloodType": "str",
  "contactInfo": "string",
  "quantity": 500,
  "collectionDate": "2024-11-17T10:58:25.986Z",
  "expirationDate": "2024-11-17T10:58:25.986Z",
  "status": "string"
}
```

New entry:

Request URL

https://localhost:7106/api/BloodBank

Server response

Code

Details

200

Response body

```
{
  "id": 0,
  "donorName": "string",
  "age": 65,
  "bloodType": "str",
  "contactInfo": "string",
  "quantity": 500,
  "collectionDate": "2024-10-07T15:11:47.032067+05:30",
  "expirationDate": "2024-11-18T15:11:47.032067+05:30",
  "status": "Requested"
},
{
  "id": 10,
  "donorName": "Jennifer White",
  "age": 65,
  "bloodType": "A+",
  "contactInfo": "j.white@email.com",
  "quantity": 600,
  "collectionDate": "2024-10-06T15:11:47.032067+05:30",
  "expirationDate": "2024-11-17T15:11:47.032067+05:30",
  "status": "Expired"
},
{
  "id": 11,
  "donorName": "New Entry",
  "age": 65,
  "bloodType": "A+",
  "contactInfo": "newone@gmail.com",
  "quantity": 300,
  "collectionDate": "2024-11-17T10:00:00",
  "expirationDate": "2024-12-29T10:00:00",
  "status": "Available"
}
}
```

Download

4. Update (PUT /api/bloodbank/{id})

PUT /api/BloodBank/{id}

Parameters

Name	Description
id * required	
integer(\$int32)	11
(path)	

Request body

application/json

```
{  "id": 12,  "donorName": "New Name",  "age": 60,  "bloodType": "B+",  "contactInfo": "newemail@gmail.com",  "quantity": 350,  "collectionDate": "2024-11-17T10:00:00",  "expirationDate": "2024-12-29T10:00:00",  "status": "Requested"}
```

Execute

Clear

Responses

Curl

```
curl -X 'PUT' \  'https://localhost:7106/api/BloodBank/11' \  -H 'accept: */*' \  -H 'Content-Type: application/json' \  -d '{  "id": 12,  "donorName": "New Name",  "age": 60,  "bloodType": "B+",  "contactInfo": "newemail@gmail.com",  "quantity": 350,  "collectionDate": "2024-11-17T10:00:00",  "expirationDate": "2024-12-29T10:00:00",  "status": "Requested"  }'
```

Request URL

https://localhost:7106/api/BloodBank/11

Server response

Code	Details
204	<div>Response headers<div>date: Sun, 17 Nov 2024 11:09:21 GMTserver: Kestrel</div></div>

Responses

Code	Description	Links
200	OK	No links

For id: 11 with the data:

```
{  "id": 11,  "donorName": "New Name",  "age": 60,  "bloodType": "B+",  "contactInfo": "newemail@gmail.com",  "quantity": 350,  "collectionDate": "2024-11-17T10:00:00",  "expirationDate": "2024-12-29T10:00:00",  "status": "Requested"}
```

Updated record for id: 11:

Request URL	
https://localhost:7106/api/BloodBank	
Server response	
Code	Details
200	<div>Response body</div> <pre>[{"bloodType": "O+", "contactInfo": "d.khan@email.com", "quantity": 450, "collectionDate": "2024-10-07T15:11:47.032067+05:30", "expirationDate": "2024-11-18T15:11:47.032067+05:30", "status": "Requested"}, {"id": 10, "donorName": "Jennifer White", "age": 39, "bloodType": "A+", "contactInfo": "j.white@email.com", "quantity": 400, "collectionDate": "2024-10-06T15:11:47.0320675+05:30", "expirationDate": "2024-11-17T15:11:47.0320676+05:30", "status": "Expired"}, {"id": 11, "donorName": "New Name", "age": 60, "bloodType": "B+", "contactInfo": "newemail@gmail.com", "quantity": 350, "collectionDate": "2024-11-17T10:00:00", "expirationDate": "2024-12-29T10:00:00", "status": "Requested"}]</pre>

5. Delete (DELETE /api/bloodbank/{id})

Deleting newly added record with ID = 11

DELETE

/api/BloodBank/{id}

Parameters

Cancel

Name	Description
id <small>* required</small>	
<small>integer(\$int32)</small>	11
<small>(path)</small>	

Execute

Clear

Responses

Curl

```
curl -X 'DELETE' \
'https://localhost:7106/api/BloodBank/11' \
-H 'accept: */*'

```

Request URL

https://localhost:7106/api/BloodBank/11

Server response

Code	Details
204	
<small>Undocumented</small>	<div>Response headers<div>date: Sun, 17 Nov 2024 13:11:23 GMTserver: Kestrel</div></div>

Responses

Code	Description	Links
200	OK	No links

Fetching ID 11 – Not found

Postman Output

GET /api/BloodBank/{id}

Parameters

Name Description

id * required
integer(\$int32)
(path) 11

Execute Clear

Responses

Curl

```
curl -X 'GET' \
  'https://localhost:7106/api/BloodBank/11' \
  -H 'accept: text/plain'
```

Request URL

https://localhost:7106/api/BloodBank/11

Server response

Code	Details
404	Error: response status is 404

Undocumented

Response body

```
{
  "type": "https://tools.ietf.org/html/rfc9110#section-15.5.5",
  "title": "Not Found",
  "status": 404,
  "traceId": "00-d830fc57a87c2ff52e393371a7036cb4-0b963aa4e275609b-00"
}
```

Response headers

Swagger Output

Workspaces More

GET https://localhost:7106/api/BloodBank/11

Save Share

GET https://localhost:7106/api/BloodBank/11

Send

Params Auth Headers (27) Body Scripts Settings Cookies

Query Params

Key	Value	Description	Bulk Edit
-----	-------	-------------	-----------

Body

404 Not Found 1373 ms 325 B

Pretty Raw Preview Visualize JSON

```
1 {
2   "type": "https://tools.ietf.org/html/rfc9110#section-15.5.5",
3   "title": "Not Found",
4   "status": 404,
5   "traceId": "00-d830fc57a87c2ff52e393371a7036cb4-0b963aa4e275609b-00"
6 }
```

6. Pagination (/api/BloodBank/page)

page: Page number (default: 1)

size: Items per page (default: 10)

Swagger Output

GET /api/BloodBank/page

Parameters

Cancel

Name	Description
page	
integer(\$int32)	2
(query)	
size	
integer(\$int32)	4
(query)	

Execute

Clear

Responses

Curl

curl -X 'GET' \n 'https://localhost:7106/api/BloodBank/page?page=2&size=4' \n -H 'accept: text/plain'

Request URL

https://localhost:7106/api/BloodBank/page?page=2&size=4

Server response

Code	Details
200	Response body

Code

Details

200

Response body

```
[{"id": 5, "donorName": "Robert Munder", "age": 45, "bloodType": "O+", "contactInfo": "r.munder@email.com", "quantity": 500, "collectionDate": "2024-10-28T15:11:47.0320649+05:30", "expirationDate": "2024-12-09T15:11:47.032065+05:30", "status": "Requested"}, {"id": 6, "donorName": "Viraj Thompson", "age": 31, "bloodType": "A-", "contactInfo": "viraj.t@email.com", "quantity": 450, "collectionDate": "2024-10-18T15:11:47.032066+05:30", "expirationDate": "2024-11-29T15:11:47.0320661+05:30", "status": "Available"}, {"id": 7, "donorName": "James Singh", "age": 38, "bloodType": "B-", "contactInfo": "j.singh@email.com", "quantity": 400, "collectionDate": "2024-10-10T15:11:47.032066+05:30", "expirationDate": "2024-11-20T15:11:47.032066+05:30", "status": "Available"}]
```

Download

Response headers

```
content-type: application/json; charset=utf-8
date: Sun, 17 Nov 2024 13:21:23 GMT
server: Kestrel
```

Responses

Code	Description	Links
200	OK	No links

Media type

text/plain

Controls Accept header.

Here the values we are passing as the parameters are:

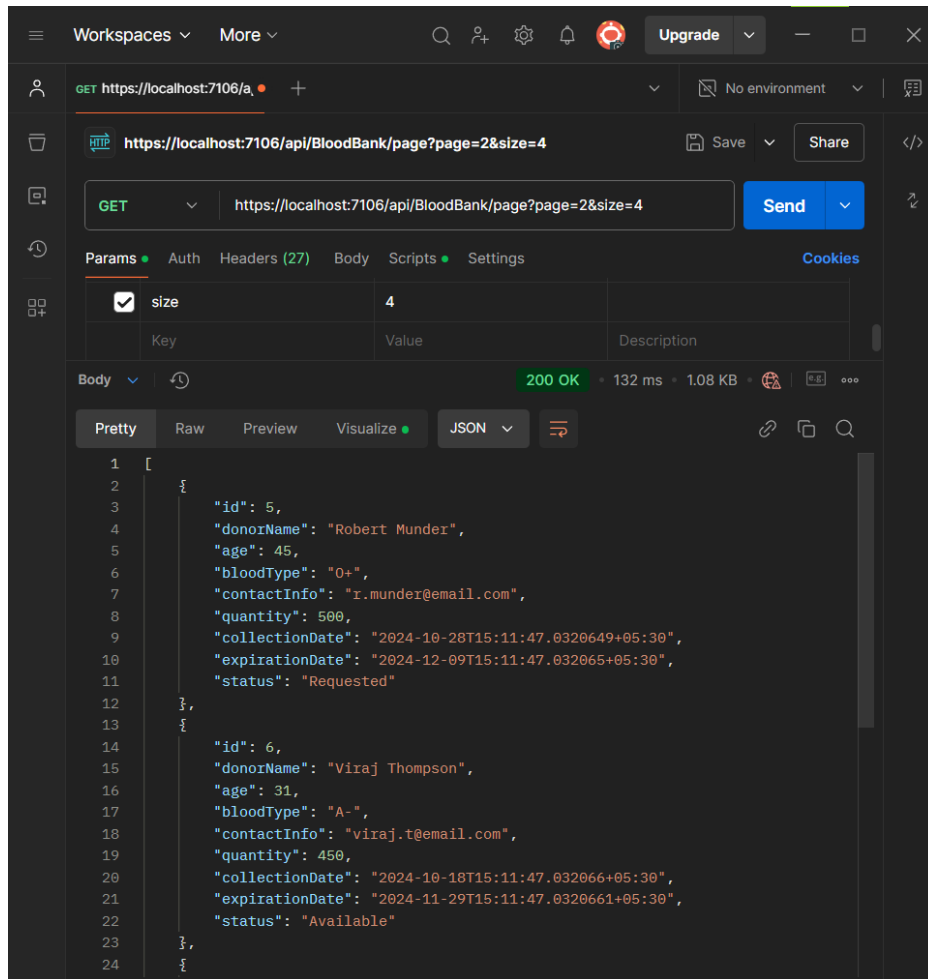
Page no = 2

Records per page = 4

Thus page 1 consists of records with IDs 1,2,3,4

And page 2 with IDs 5,6,7,8

Postman output: <https://localhost:7106/api/BloodBank/page?page={page no.}&size={records per page}>



6. Search (/api/BloodBank/search)

bloodType: Blood type (e.g., "A+", "O-")

status: Entry status (e.g., "Available", "Requested")

donorName: Donor's name (partial match)

GET

/api/BloodBank/search

Parameters

Cancel

Name	Description
bloodType	
string	A+
(query)	
status	
string	Available
(query)	
donorName	
string	donorName
(query)	

ExecuteClear

Responses

Curl

curl -X 'GET' \n 'https://localhost:7106/api/BloodBank/search?bloodType=A%2B&status=Available' \n -H 'accept: text/plain'

Request URL

https://localhost:7106/api/BloodBank/search?bloodType=A%2B&status=Available

Server response

CodeDetails

200

Response body

```
[ {
  "id": 1,
  "donorName": "Prashant",
  "age": 28,
  "bloodType": "A+",
  "contactInfo": "prashant2003@gmail.com",
  "quantity": 450,
  "collectionDate": "2024-11-17T15:11:47.0310812+05:30",
  "expirationDate": "2024-12-29T15:11:47.031141+05:30",
  "status": "Available"
}]
```

Download

Response headers

content-type: application/json; charset=utf-8
date: Sun, 17 Nov 2024 13:46:12 GMT
server: Kestrel

Responses

CodeDescriptionLinks

200OK

Media type

text/plain

Controls Accept header.

No links

Postman Output: <https://localhost:7106/api/BloodBank/search?bloodType=A%2B&status=Available>

HomeWorkspacesAPI Network

Search Postman

Invite

Upgrade

GET https://localhost:7106/a

https://localhost:7106/api/BloodBank/search?bloodType=A%2B&status=Available

SaveShare

GET

https://localhost:7106/api/BloodBank/search?bloodType=A%2B&status=Available

Send

Params

Authorization

Headers (27)

Body

Scripts

Settings

Cookies

status

Available

Key

Value

Description

Body

Cookies

Headers (4)

Test Results

200 OK

385 ms

387 B

Save Response

Pretty

Raw

Preview

Visualize

JSON

1

[

2

{

3

"id": 1,

4

"donorName": "Prashant",

5

"age": 28,

6

"bloodType": "A+",

7

"contactInfo": "prashant2003@gmail.com",

8

"quantity": 450,

9

"collectionDate": "2024-11-17T15:11:47.0310812+05:30",

10

"expirationDate": "2024-12-29T15:11:47.031141+05:30",

11

"status": "Available"

12

}

13

]