

# Bill Service API

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This section documents the Bill REST API produced by the Spring Boot application. The snippets are generated automatically from the controller tests.

### NOTE

Run the Spring REST Docs test suite (for example with `./mvnw test`) before building this document to refresh the snippets.

## List bills

```
GET /api/bills HTTP/1.1
Host: localhost:8080
```

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: 389

[ {
  "id" : "b8829103-769d-4f1c-b50d-f7e317ea43f4",
  "customerId" : "CUST-001",
  "customerName" : "Wayne Enterprises",
  "description" : "Security services",
  "amount" : 1200.0,
  "dueDate" : "2025-11-04",
  "status" : "ISSUED",
  "issuedAt" : "2025-10-04T22:04:12.7769263+03:30",
  "updatedAt" : "2025-10-05T22:04:12.7769263+03:30",
  "lastPaymentReference" : "PAY-XYZ"
} ]
```

Path	Type	Description
[].id	String	Bill identifier
[].customerId	String	Customer external identifier
[].customerName	String	Customer name
[].description	String	Bill description
[].amount	Number	Bill amount
[].dueDate	String	Due date (ISO-8601)
[].status	String	Bill status
[].issuedAt	String	Issuing timestamp
[].updatedAt	String	Last update timestamp
[].lastPaymentReference	String	Reference of the latest payment

## Retrieve bill by id

Table 1. /api/bills/{id}

Parameter	Description
id	Bill identifier

GET /api/bills/233a17a9-e0ba-48d0-ba7c-b59735469dbd HTTP/1.1  
Host: localhost:8080

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: 385

{
  "id" : "233a17a9-e0ba-48d0-ba7c-b59735469dbd",
  "customerId" : "CUST-001",
  "customerName" : "Wayne Enterprises",
  "description" : "Security services",
  "amount" : 1200.0,
  "dueDate" : "2025-11-04",
  "status" : "ISSUED",
  "issuedAt" : "2025-10-04T22:04:12.5481517+03:30",
  "updatedAt" : "2025-10-05T22:04:12.5481517+03:30",
  "lastPaymentReference" : "PAY-XYZ"
}
```

Path	Type	Description
id	String	Bill identifier

Path	Type	Description
customerId	String	Customer external identifier
customerName	String	Customer name
description	String	Bill description
amount	Number	Bill amount
dueDate	String	Due date (ISO-8601)
status	String	Bill status
issuedAt	String	Issuing timestamp
updatedAt	String	Last update timestamp
lastPaymentReference	String	Reference of the latest payment

## Create bill

```
POST /api/bills HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 189
Host: localhost:8080
```

```
{
  "customerId" : "CUST-001",
  "customerName" : "Wayne Enterprises",
  "description" : "Security services",
  "amount" : 1200.0,
  "dueDate" : "2025-11-04",
  "status" : "ISSUED"
}
```

Path	Type	Description
customerId	String	Customer external identifier
customerName	String	Customer name
description	String	Bill description
amount	Number	Bill amount
dueDate	String	Due date (ISO-8601 date)
status	String	Bill status (defaults to ISSUED when omitted)

```
HTTP/1.1 201 Created
Location: /api/bills/0497bf1b-19df-4ab2-bd28-e5e48e82fe52
Content-Type: application/json
Content-Length: 385
```

```
{
  "id" : "0497bf1b-19df-4ab2-bd28-e5e48e82fe52",
  "customerId" : "CUST-001",
  "customerName" : "Wayne Enterprises",
  "description" : "Security services",
  "amount" : 1200.0,
  "dueDate" : "2025-11-04",
  "status" : "ISSUED",
  "issuedAt" : "2025-10-04T22:04:12.4079352+03:30",
  "updatedAt" : "2025-10-05T22:04:12.4079352+03:30",
  "lastPaymentReference" : "PAY-XYZ"
}
```

Path	Type	Description
id	String	Bill identifier
customerId	String	Customer external identifier
customerName	String	Customer name
description	String	Bill description
amount	Number	Bill amount
dueDate	String	Due date (ISO-8601)
status	String	Bill status
issuedAt	String	Issuing timestamp
updatedAt	String	Last update timestamp
lastPaymentReference	String	Reference of the latest payment

## Update bill

Table 2. /api/bills/{id}

Parameter	Description
id	Bill identifier

```
PUT /api/bills/314ace94-c8c5-42a8-8cd2-8543287108df HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 189
Host: localhost:8080
```

```
{
  "customerId" : "CUST-001",
  "customerName" : "Wayne Enterprises",
  "description" : "Security services",
  "amount" : 1200.0,
```

```
"dueDate" : "2025-11-04",  
"status" : "ISSUED"  
}
```

Path	Type	Description
customerId	String	Customer external identifier
customerName	String	Customer name
description	String	Bill description
amount	Number	Bill amount
dueDate	String	Due date (ISO-8601 date)
status	String	Bill status (defaults to ISSUED when omitted)

```
HTTP/1.1 200 OK  
Content-Type: application/json  
Content-Length: 385  
  
{  
  "id" : "314ace94-c8c5-42a8-8cd2-8543287108df",  
  "customerId" : "CUST-001",  
  "customerName" : "Wayne Enterprises",  
  "description" : "Security services",  
  "amount" : 1200.0,  
  "dueDate" : "2025-11-04",  
  "status" : "ISSUED",  
  "issuedAt" : "2025-10-04T22:04:12.7327798+03:30",  
  "updatedAt" : "2025-10-05T22:04:12.7327798+03:30",  
  "lastPaymentReference" : "PAY-XYZ"  
}
```

Path	Type	Description
id	String	Bill identifier
customerId	String	Customer external identifier
customerName	String	Customer name
description	String	Bill description
amount	Number	Bill amount
dueDate	String	Due date (ISO-8601)
status	String	Bill status
issuedAt	String	Issuing timestamp
updatedAt	String	Last update timestamp
lastPaymentReference	String	Reference of the latest payment

# Update bill status

Table 3. `/api/bills/{id}/status`

Parameter	Description
<code>id</code>	Bill identifier

```
POST /api/bills/e188b39f-82ff-4ba6-97aa-edc3cc05d1a3/status HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 30
Host: localhost:8080
```

```
{
  "status" : "CANCELLED"
}
```

Path	Type	Description
<code>status</code>	<code>String</code>	New bill status

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: 385

{
  "id" : "e188b39f-82ff-4ba6-97aa-edc3cc05d1a3",
  "customerId" : "CUST-001",
  "customerName" : "Wayne Enterprises",
  "description" : "Security services",
  "amount" : 1200.0,
  "dueDate" : "2025-11-04",
  "status" : "ISSUED",
  "issuedAt" : "2025-10-04T22:04:12.8331551+03:30",
  "updatedAt" : "2025-10-05T22:04:12.8331551+03:30",
  "lastPaymentReference" : "PAY-XYZ"
}
```

Path	Type	Description
<code>id</code>	<code>String</code>	Bill identifier
<code>customerId</code>	<code>String</code>	Customer external identifier
<code>customerName</code>	<code>String</code>	Customer name
<code>description</code>	<code>String</code>	Bill description
<code>amount</code>	<code>Number</code>	Bill amount
<code>dueDate</code>	<code>String</code>	Due date (ISO-8601)

Path	Type	Description
status	String	Bill status
issuedAt	String	Issuing timestamp
updatedAt	String	Last update timestamp
lastPaymentReference	String	Reference of the latest payment

## Register payment

Table 4. /api/bills/{id}/payments

Parameter	Description
id	Bill identifier

```
POST /api/bills/769f13da-1df4-4f47-96ef-72465a0fb3a3/payments HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 38
Host: localhost:8080
```

```
{
  "paymentReference" : "PAY-001"
}
```

Path	Type	Description
paymentReference	String	Payment reference supplied by the PSP

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: 385

{
  "id" : "769f13da-1df4-4f47-96ef-72465a0fb3a3",
  "customerId" : "CUST-001",
  "customerName" : "Wayne Enterprises",
  "description" : "Security services",
  "amount" : 1200.0,
  "dueDate" : "2025-11-04",
  "status" : "ISSUED",
  "issuedAt" : "2025-10-04T22:04:11.8544147+03:30",
  "updatedAt" : "2025-10-05T22:04:11.8544147+03:30",
  "lastPaymentReference" : "PAY-XYZ"
}
```

Path	Type	Description
id	String	Bill identifier
customerId	String	Customer external identifier
customerName	String	Customer name
description	String	Bill description
amount	Number	Bill amount
dueDate	String	Due date (ISO-8601)
status	String	Bill status
issuedAt	String	Issuing timestamp
updatedAt	String	Last update timestamp
lastPaymentReference	String	Reference of the latest payment

## Delete bill

Table 5. /api/bills/{id}

Parameter	Description
id	Bill identifier

```
DELETE /api/bills/8ddf343a-e7d7-4060-991d-b45675b9200b HTTP/1.1
Host: localhost:8080
```

```
HTTP/1.1 204 No Content
```

## Error responses

Table 6. /api/bills/{id}

Parameter	Description
id	Bill identifier

```
HTTP/1.1 404 Not Found
Content-Type: application/json
Content-Length: 205

{
  "timestamp" : "2025-10-05T22:04:12.7028828+03:30",
  "status" : 404,
  "error" : "Not Found",
  "message" : "Bill with id 1a7b52db-a3e6-4bb4-8cf4-7ba2e5a8fe11 was not found",
}
```



```
"details" : null
}
```

Path	Type	Description
timestamp	String	Time of the error
status	Number	HTTP status code
error	String	HTTP reason phrase
message	String	Human readable message
details	Array	Validation details (when available)

```
POST /api/bills HTTP/1.1
Content-Type: application/json;charset=UTF-8
Content-Length: 135
Host: localhost:8080
```

```
{
  "customerId" : "",
  "customerName" : "",
  "description" : null,
  "amount" : null,
  "dueDate" : null,
  "status" : null
}
```

```
HTTP/1.1 400 Bad Request
Content-Type: application/json
Content-Length: 344
```

```
{
  "timestamp" : "2025-10-05T22:04:12.6141975+03:30",
  "status" : 400,
  "error" : "Bad Request",
  "message" : "Validation failed",
  "details" : [ "description: Description is required", "customerId: Customer id is
required", "dueDate: Due date is required", "amount: Amount is required",
"customerName: Customer name is required" ]
}
```

Path	Type	Description
timestamp	String	Time of the error
status	Number	HTTP status code
error	String	HTTP reason phrase

Path	Type	Description
message	String	Human readable message
details	Array	Validation details (when available)