



/v3/api-docs

Explore



Core Banking API

1.0.0 OAS 3.0

/v3/api-docs

Mock Banking API for Application Modernization Challenge



Challenge Overview

This API provides endpoints for:

- **JWT Authentication** (with scopes: enquiry, transfer)
- **Fund Transfers** (core requirement)
- **Account Management** (validation, balance inquiry)
- **Transaction History** (bonus feature)



Authentication

- **Optional for basic functionality**
- **Required for bonus points**
- Use `/authToken` to get JWT token
- Include in **Authorization: Bearer <token>** header



Bonus Points

- Use JWT tokens for authentication
- Implement proper error handling
- Use account validation endpoints
- Access transaction history



Quick Start

1. **Get a token:** **POST** `/authToken` with `{"username":"alice","password":"any"}`
2. **Transfer funds:** **POST** `/transfer` with transfer details
3. **Validate accounts:** **GET** `/accounts/validate/{id}`

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Servers

<http://localhost:8123> - Local Development Server

Authorize



JWT token generation and validation endpoints

Authentication



POST **/authToken** Generate JWT Authentication Token



Generates a JWT token with specified claims/scopes. Use ?claim=transfer for transfer operations, default is enquiry.

Parameters

Try it out

Name	Description
claim string (query)	Claim/scope for the token: 'enquiry' (default) or 'transfer' <i>Default value</i> : enquiry <i>Example</i> : transfer
	<div>transfer</div>

Request body **required**

application/json

Example Value Schema

```
{
  "username": "alice",
  "password": "password123"
}
```

Responses

Code	Description	Links
200	JWT token successfully generated	No links
	<div>Media type<div>application/json</div><div>Controls Accept header.</div></div> <div>Examples<div>Token Response</div></div> <div>Example Value Schema</div> <div><pre>{ "token": "eyJhbGciOiJIUzI1NiJ9...", "username": "alice", "scope": "enquiry", "permissions": "enquiry", "expiresAt": "2024-01-01T12:00:00Z" }</pre></div>	

Code	Description	Links
Example Description		
Token Response		
400	Invalid request body	No links
Media type		
<div>*/*</div>		
Example Value Schema		
<pre>{ "additionalProp1": {}, "additionalProp2": {}, "additionalProp3": {} }</pre>		

Accounts

Account management and validation endpoints - Bonus features

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GET

/accounts

Get all accounts

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Returns 100 valid accounts with their balances. JWT token optional but earns bonus points!

Parameters

Try it out

Name	Description
Authorization string (header)	JWT token (optional - bonus points if provided) <div>Authorization</div>

Responses

Code	Description	Links
200	List of accounts	No links
	Media type <div>application/json</div> Controls Accept header.	

Code

Description

Links

Example Value

Schema

```
[
  {
    "id": "ACC1000",
    "balance": 1000
  }
]
```

GET

/accounts/validate/{accountId}

Validate account

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Checks if the given account ID is valid/active. JWT token optional but earns bonus points!

Parameters

Try it out

Name	Description
accountId ★ required string (path)	<div>accountId</div>
Authorization string (header)	<div>JWT token (optional - bonus points if provided)</div> <div>Authorization</div>

Responses

Code	Description	Links
200	<div>OK</div> <div>Media type</div> <div><div>*/*</div></div> <div>Controls Accept header.</div> <div><div>Example Value</div><div>Schema</div></div> <div><pre>{ "additionalProp1": {}, "additionalProp2": {}, "additionalProp3": {} }</pre></div>	No links

GET

/accounts/balance/{accountId} Get account balance

Returns the current balance of a specific account. JWT token optional but earns bonus points!

Parameters

Try it out

Name	Description
accountId ★ required string (path)	<div>accountId</div>
Authorization string (header)	<div>JWT token (optional - bonus points if provided)</div> <div>Authorization</div>


Responses

Code	Description	Links
200	<div>OK</div> <div>Media type</div> <div><div>*/*</div></div> <div>Controls Accept header.</div> <div>Example Value Schema</div> <div><pre>{ "additionalProp1": {}, "additionalProp2": {}, "additionalProp3": {}}</pre></div>	No links

Transfer

Fund transfer operations - Core challenge endpoint


POST

/transfer  Transfer Funds (Core Challenge Endpoint)

PRIMARY CHALLENGE ENDPOINT

Transfers funds between accounts.

✔

 Works without authentication (minimum requirement)  JWT token earns bonus points!

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 Challenge Requirements:

- Implement HTTP client to call this endpoint
- Handle success/failure responses
- Use valid account IDs (ACC1000-ACC1099)
- Add JWT authentication for bonus points

 **Bonus Points:**

- Include **Authorization: Bearer <token>** header
- Use transfer token (?claim=transfer) for maximum points

Parameters

Try it out

Name	Description
Authorization string (header)	JWT token for bonus points. Format: 'Bearer '. Get token from /authToken endpoint. <i>Example</i> : Bearer eyJhbGciOiJIUzI1NiJ9.eyJzdWliOiJhbGljZSIsImV4cCI6MTY0MDk5NTlwMCwic2NvcGUiOiJ0cmFuc2ZlciJ9... <div>Bearer eyJhbGciOiJIUzI1NiJ9.eyJzdWliOiJh</div>

Request body required

application/json

Example Value Schema

```
{
  "fromAccount": "ACC1000",
  "toAccount": "ACC1001",
  "amount": 150
}
```

Responses

Code	Description	Links
200	Transfer processed successfully <div><div>Media type</div><div>application/json</div><div>Controls Accept header.</div><div>Examples</div><div>Successful Transfer</div><div>Example Value Schema</div><div>{ "transactionId": "a1b2c3d4-e5f6-7890-abcd-ef1234567890", "status": "SUCCESS", "message": "Transfer completed successfully", "fromAccount": "ACC1000", }</div></div>	No links

Code	Description	Links
	<pre>"toAccount": "ACC1001", "amount": 100, "bonusPoints": "🌟 JWT Authentication Bonus!" }</pre> <p>Example Description</p> <p>Successful Transfer</p>	
400	<p>Invalid request - validation errors</p> <p>Media type</p> <div>application/json</div> <p>Example Value</p> <pre>{ "status": "FAILED", "message": "Invalid account format", "errors": ["fromAccount must match pattern ACC[0-9]{4}"] }</pre>	No links

transaction-controller



GET

/transactions/history

Get transaction history

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Returns recent transaction history. JWT token required for this bonus endpoint!

Parameters

Try it out

Name	Description
Authorization string (header)	JWT token (required for this endpoint) <div>Authorization</div>
limit integer(\$int32) (query)	Number of transactions to retrieve (default: 10, max: 20) Default value : 10 <div>10</div>

Responses

Code	Description	Links
200	<div>OK</div> <div>Media type</div> <div><div>*/*</div></div> <div>Controls Accept header.</div> <div>Example Value Schema</div> <div><pre>{ "additionalProp1": {}, "additionalProp2": {}, "additionalProp3": {} }</pre></div>	No links

Schemas ^

TransferRequest

{

fromAccount*

[...]

toAccount*

[...]

amount*

[...]

}

AuthRequest

{

username*

[...]

password*

[...]

}

Account

{

id

[...]

balance

[...]

}