

# Task\_Bank Project Documentation

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## Overview

The Task\_Bank project is an ASP.NET Core Web API designed to handle and store SWIFT messages. It uses SQLite for data storage. The project supports logging via NLog and offers Swagger UI for API documentation and testing.

## API Endpoints

### SwiftMessageController

#### ReceiveMessage

##### POST / api/SwiftMessage

- **Description:** Receives and saves a new SWIFT message.
- **Request Body:** SwiftMessage
- **Responses:**
  - 200 OK: Message saved successfully.
  - 500 Internal Server Error: Error occurred while saving the message.

#### UploadFile

##### POST / api / SwiftMessage / Upload

- **Description:** Uploads and processes a SWIFT message file.
- **Request Body:** IFormFile (file)
- **Responses:**
  - 200 OK: File read successfully with content.
  - 400 Bad Request: File is empty or null.
  - 500 Internal Server Error: Error occurred while uploading the file.

## Model

## SwiftMessage

```
3 references
public class SwiftMessage
{
    0 references
    public int Id { get; set; }
    1 reference
    public string Field_1 { get; set; }
    1 reference
    public string Field_2 { get; set; }
    1 reference
    public string Field_20 {get; set;}
    1 reference
    public string Field_21 { get; set; }
    1 reference
    public string Field_79 { get; set;}
    1 reference
    public string Mac { get; set;}
    1 reference
    public string Chk { get; set;}
}
```

## Logging

NLog is used for logging. Configuration is done in nlog.config.

## Running the Application

### Build and Run

The application uses Visual Studio for building and running the project.

### Access Swagger UI

Swagger is used for viewing and testing the API endpoints.

## Task\_Bank 1.0 OAS3

<https://localhost:7261/swagger/v1/swagger.json>

## SwiftMessage

POST

/api/SwiftMessage

POST

/api/SwiftMessage/Upload

Parameters

Cancel

Reset

No parameters

Request body

multipart/form-data

file

string(\$binary)

Choose File

example\_mt700 (1).txt

☐ Send empty value

## Responses

Curl

```
curl -X 'POST' \
  'https://localhost:7261/api/SwiftMessage/Upload' \
  -H 'accept: */*' \
  -H 'Content-Type: multipart/form-data' \
  -F 'file@example_mt799 (1).txt;type=text/plain'
```

Request URL

```
https://localhost:7261/api/SwiftMessage/Upload
```

Server response

| Code | Details |
|------|---------|
|------|---------|

200

Response body

[illegible]

### Response headers

```
content-type: application/json; charset=utf-8
date: Sun, 07 Jul 2024 20:18:05 GMT
server: Kestrel
```

## Responses

| Code | Description |
|------|-------------|
|------|-------------|

## Links

200

## Success

No links

# Database

The application uses SQLite for data storage with a connection string defined in appsettings.json. The database file is named Swift\_MSG.db.

| Name            | Type    | Schema   |
|-----------------|---------|--|
| Tables (2)      |         |  |
| SwiftMessages   |         | CREATE TABLE SwiftMessages ( Id INTEGER PRIMARY KEY AUTOINCREMENT, Field_1 TEXT, Field_2 TEXT, Field_20 TEXT NOT |
| Id              | INTEGER | "Id" INTEGER   |
| Field_1         | TEXT    | "Field_1" TEXT   |
| Field_2         | TEXT    | "Field_2" TEXT   |
| Field_20        | TEXT    | "Field_20" TEXT NOT NULL   |
| Field_21        | TEXT    | "Field_21" TEXT NOT NULL   |
| Field_79        | TEXT    | "Field_79" TEXT NOT NULL   |
| Mac             | TEXT    | "Mac" TEXT   |
| Chk             | TEXT    | "Chk" TEXT   |
| sqlite_sequence |         | CREATE TABLE sqlite_sequence(name,seq)   |
| Indices (0)     |         |  |
| Views (0)       |         |  |
| Triggers (0)    |         |  |

|   | Id     | Field_1                | Field_2                            | Field_20         | Field_21       | Field_79                         | Mac      | Chk           |
|---|--------|------------------------|------------------------------------|------------------|----------------|----------------------------------|----------|---------------|
|   | Filter | Filter                 | Filter                             | Filter           | Filter         | Filter                           | Filter   | Filter        |
| 1 | 1      | F01PRCBGXFAXX111111111 | O79911111111111111ABGRSWACAXX11... | 67-C111111-KNTRL | 30-111-1111111 | NA VNIMANIETO NA: OTDEL BANKO... | 00000000 | 1111111111111 |
| 2 | 2      | F01PRCBGXFAXX111111111 | O79911111111111111ABGRSWACAXX11... | 67-C111111-KNTRL | 30-111-1111111 | NA VNIMANIETO NA: OTDEL BANKO... | 00000000 | 1111111111111 |
| 3 | 3      | F01PRCBGXFAXX111111111 | O79911111111111111ABGRSWACAXX11... | 67-C111111-KNTRL | 30-111-1111111 | NA VNIMANIETO NA: OTDEL BANKO... | 00000000 | 1111111111111 |
| 4 | 4      | F01PRCBGXFAXX111111111 | O79911111111111111ABGRSWACAXX11... | 67-C111111-KNTRL | 30-111-1111111 | NA VNIMANIETO NA: OTDEL BANKO... | 00000000 | 1111111111111 |
| 5 | 5      | F01PRCBGXFAXX111111111 | O79911111111111111ABGRSWACAXX11... | 67-C111111-KNTRL | 30-111-1111111 | NA VNIMANIETO NA: OTDEL BANKO... | 00000000 | 1111111111111 |