# Task\_Bank Project Documentation

### 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:
  - o 200 OK: Message saved successfully.
  - o 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:
  - o 200 OK: File read successfully with content.
  - 400 Bad Request: File is empty or null.
  - o 500 Internal Server Error: Error occurred while uploading the file.

#### Model

## SwiftMessage

```
3 references
public class SwiftMessage
{
    O 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 Mac { get; set; }
    1 reference
    public string Chk { get; set; }
}
```

# Logging

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

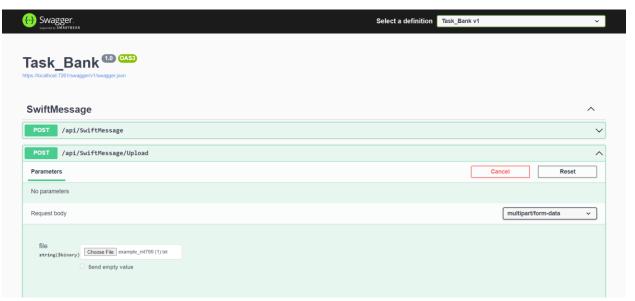
# **Running the Application**

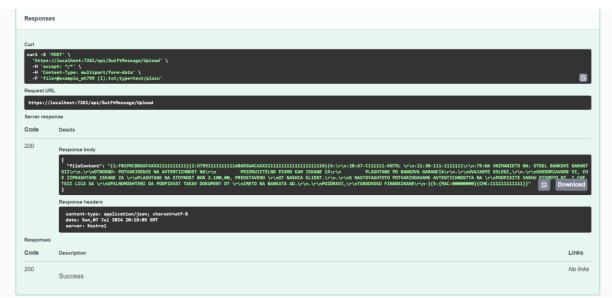
#### **Build and Run**

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

### **Access Swagger UI**

Swagger is used for viewing and testing the API endpoints.





### **Database**

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

