**Step 1: Create an S3 Bucket**

1. **Log in to AWS Management Console**.
2. Navigate to **S3**.
3. Click on **Create bucket**.
4. Enter a unique bucket name and select your desired region.
5. Configure options as needed, then click **Create bucket**.

**Step 2: Set Up IAM Role for Lambda**

1. Go to **IAM** in the AWS Management Console.
2. Click on **Roles** and then **Create role**.
3. Select **AWS Service** and choose **Lambda**.
4. Attach the **AWSLambdaBasicExecutionRole** and **AmazonS3FullAccess** policies (you can restrict permissions later).
5. Name the role (e.g., ***LambdaS3UploadRole***) and create the role.

**Step 3: Create a Lambda Function**

1. Navigate to **Lambda** in the console.
2. Click on **Create function**.
3. Choose **Author from scratch**.
4. Name your function and select the runtime (e.g., ***Python***, Node.js).
5. Under Permissions, choose the role you created earlier.
6. Click on **Create function**.

**Step 4: Add the Lambda Code**

1. Attached in this folder

**Step 5: Set Environment Variable for Lambda**

1. In your Lambda function configuration, go to **Configuration** > **Environment variables**.
2. Add a new environment variable: BUCKET\_NAME with the value of your S3 bucket name (***my-decisions-aws-bucket-0***)

**Step 6: Create an API Gateway**

1. Go to **API Gateway** in the console.
2. Click on **Create API** and choose **HTTP API**.
3. Click on **Build**.
4. Configure the API and click **Next**.
5. Under **Integrations**, select **Lambda function** and choose the Lambda function you created.
6. Click **Next** and then set up routes (e.g., POST /upload or use ***$default***).
7. Click **Next**, review the settings, and click **Create**.

**Step 7: Deploy the API**

1. After creating the API, navigate to the **Stages** section.
2. Deploy your API, which will provide you with an endpoint URL.

**Format:** endpointURL/lamdaFUNCTIONNAME

**POST:** <https://xxxxxxxxxxxxx.execute-api.us-east-2.amazonaws.com/LambdaS3UploadFunction_v1>

**Body:**

{

    "folder\_id": "unique\_folder",

    "files": [

        {

            "filename": "file1.txt",

            "file": "base-64-encoded-string-value"

        },

        {

            "filename": "file2.txt",

            "file": " base-64-encoded-string-value""

        }

    ]

}

**Decisions:**

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