

1. Create a Python Lambda function

Create a new Python Lambda function and paste the following code:

Python

```
import os
import requests

def lambda_handler(event, context):
    # Get the file name from the event
    file_name = event['file_name']

    # Get the file size from the event
    file_size = event['file_size']

    # Check if the file is a Word document
    if file_name.endswith('.docx'):

        # Check if the file size is less than 5 MB
        if file_size < 5242880:

            # Convert the file to PDF
            pdf_file = convert_docx_to_pdf(file_name)

            # Upload the PDF file to S3
            upload_pdf_file_to_s3(pdf_file)

            # Return the success message
            return {
                'message': 'File converted successfully'
            }

        else:

            # Return the error message
            return {
                'message': 'File size is too large'
            }

    else:

        # Return the error message
        return {
            'message': 'File is not a Word document'
        }

def convert_docx_to_pdf(file_name):
```

```

# Get the file path
file_path = os.path.join(os.getcwd(), file_name)

# Convert the file to PDF
response = requests.post('https://api.convertapi.com/v2/convert',
                        headers={'Authorization': 'Bearer
YOUR_API_KEY'},
                        data={
                            'sourceType': 'docx',
                            'targetType': 'pdf',
                            'source': file_path
                        })

# Get the PDF file
pdf_file = response.content

return pdf_file

def upload_pdf_file_to_s3(pdf_file):

    # Get the bucket name
    bucket_name = 'YOUR_BUCKET_NAME'

    # Get the key name
    key_name = file_name.replace('.docx', '.pdf')

    # Upload the file to S3
    s3 = boto3.resource('s3')
    s3.Bucket(bucket_name).put_object(Key=key_name, Body=pdf_file)

```

2. Create a front webpage using Bootstrap

Create a new HTML file and paste the following code:

HTML

```

<!DOCTYPE html>
<html>
<head>
    <title>Word to PDF Converter</title>
    <link rel="stylesheet"
href="https://cdnjs.cloudflare.com/ajax/libs/bootstrap/4.5.2/css/bootst
rap.min.css">
</head>
<body>
    <div class="container">
        <h1>Word to PDF Converter</h1>

```

```
<form action="/convert" method="post"
enctype="multipart/form-data">
    <input type="file" name="file">
    <input type="submit" value="Convert">
</form>
</div>
</body>
</html>
```

3. Deploy the Lambda function

Go to the AWS Lambda console and create a new Lambda function. Select the Python 3.8 runtime and paste the code from Step 1. Click Create Function.

In the Lambda function configuration, add the following environment variables:

- BUCKET_NAME: The name of your S3 bucket
- API_KEY: Your ConvertAPI API key

Click