

# Cloud Development Microservice Application Gateway Service Document

**Project Name:** Holiday Query and Data Storage Service (Holiday Cache Service)

**Group:** r

**File:** r\_gateway\_service.py

**Deployment Address:** <https://carrywen.pythonanywhere.com/>

## 1. Verify the service on PythonAnywhere.

1.1-Here I test the Gateway Service endpoint with curl.

1.1.1

1 curl:

curl "http://127.0.0.1:5002/gateway/test"

2 screenshots:

```
C:\Users\OMEN>curl "http://127.0.0.1:5002/gateway/test"
{
  "message": "r Group Gateway Service is running"
}
```

1.1.2

1 curl:

curl "https://CARRYwen.pythonanywhere.com/gateway/test"

2 screenshots:

```
C:\Users\OMEN>curl "https://CARRYwen.pythonanywhere.com/gateway/test"
{"message":"r Group Gateway Service is running"}
```

## 1.2 -Query Irish Holiday Data

a.

Country & Year

1 curl:

curl "https://CARRYwen.pythonanywhere.com/holidays/IE/2026"

2 screenshots:

```
C:\Users\OMEN>curl "https://CARRYwen.pythonanywhere.com/holidays/IE/2026"
{"count":11,"country":"IE","data":[{"countryCode":"IE","date":"2026-01-01","month":"01","name":"New Year's Day"}, {"countryCode":"IE","date":"2026-02-02","month":"02","name":"Saint Brigid's Day"}, {"countryCode":"IE","date":"2026-03-17","month":"03","name":"Saint Patrick's Day"}, {"countryCode":"IE","date":"2026-04-03","month":"04","name":"Good Friday"}, {"countryCode":"IE","date":"2026-04-06","month":"04","name":"Easter Monday"}, {"countryCode":"IE","date":"2026-05-04","month":"05","name":"May Day"}, {"countryCode":"IE","date":"2026-06-01","month":"06","name":"June Holiday"}, {"countryCode":"IE","date":"2026-08-03","month":"08","name":"August Holiday"}, {"countryCode":"IE","date":"2026-10-26","month":"10","name":"October Holiday"}, {"countryCode":"IE","date":"2026-12-25","month":"12","name":"Christmas Day"}, {"countryCode":"IE","date":"2026-12-26","month":"12","name":"St. Stephen's Day"}], "message":"IE holiday data retrieved successfully", "source":"api", "year":"2026"}
```

**b.**

### **Country & Year & Month**

**1** curl:

**curl "https://CARRYwen.pythonanywhere.com/holidays/IE/2025/03"**

**2** screenshots:

```
C:\Users\OMEN>curl "https://CARRYwen.pythonanywhere.com/holidays/IE/2025/03"
{"count":1,"country":"IE","data":[{"countryCode":"IE","date":"2025-03-17","month":"03","name":"Saint Patrick's Day"}],"message":"IE holiday data retrieved successfully","source":"cache","year":"2025"}
```

**c.**

### **Country & Year & Holiday**

**1** curl:

**curl**

**"https://CARRYwen.pythonanywhere.com/holidays/IE/2025/name/Good%20Friday"**

**2** screenshots:

```
C:\Users\OMEN>curl "https://CARRYwen.pythonanywhere.com/holidays/IE/2025/name/Good%20Friday"
{"count":1,"country":"IE","data":[{"countryCode":"IE","date":"2025-04-18","month":"04","name":"Good Friday"}],"message":"IE holiday data retrieved successfully","source":"cache","year":"2025"}
```