

Running Each Version

Setup (once)

```
git clone https://github.com/jafferjshah/progressive.git
cd progressive/restbucks
conda env create -f environment.yml
conda activate restbucks
```

v1 - Basic Monolith

```
git checkout v1
python restbucks.py
```

v2 - OOP Refactor

```
git checkout v2
python restbucks.py
```

v3 - Layered Architecture

```
git checkout v3
python main.py
```

v4 to v10 - Web API Versions

```
git checkout v4 # or v5, v6, v7, v8, v9, v10

# Terminal 1: start server
python app.py

# Terminal 2: test it
python test_client.py
```

v11 - PostgreSQL

Requires PostgreSQL running locally.

```
git checkout v11

# Start PostgreSQL and create database 'restbucks'
# Then set the connection URL:
export
DATABASE_URL=postgresql://postgres:postgres@localhost:5432/restbucks

# Terminal 1
python app.py

# Terminal 2
python test_client.py
```

Trouble with PostgreSQL setup? Skip to v13 which handles it via Docker.

v12 - Redis Caching

Requires PostgreSQL + Redis running locally.

```
git checkout v12

export
DATABASE_URL=postgresql://postgres:postgres@localhost:5432/restbucks
export REDIS_URL=redis://localhost:6379/0

# Terminal 1
python app.py

# Terminal 2
python test_client.py
```

Trouble with setup? Skip to v13 which handles it via Docker.

v13 - Docker

Just needs Docker installed.

```
git checkout v13

# Start everything
docker-compose up --build

# In another terminal, test it
python test_client.py
```

To stop: **Ctrl+C** then **docker-compose down**

Comparing Versions

To see what changed between versions:

```
git diff v1 v2      # what changed from v1 to v2
git diff v11 v12    # what changed when Redis was added
```

Trouble with git diff? Download and Install GitHub Desktop.

Back to Latest

```
git checkout main
```