

# Creating a Developer Environment

## ■ Goals

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- Create a multi-container development environment using a container orchestration tool

## ■ Background

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Imagine that you are a recent hire for a frog-themed startup named ElFroggo. You are part of the operations team and you receive the following email:

Hello and Welcome to ElFroggo,

I'm looking for options for a quick interface to our frog database front-end and I'm thinking about using Flask and PostgreSQL. Do you have some way I could test this environment on my Desktop? I'd like a couple of rows of test data in a table called `Frogs` with the columns `ID`, `Name`, `ScientificName`, `Color`. I'd also like a Flask example that shows how to use the `psycopg2-binary` package to connect to the db.

Thanks,

— Susan J. Developer

Design a system that meets Susan's needs using either Docker Compose or Kubernetes.

## ■ Deliverables

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Submit the files that you would give to Susan.

## ■ Resources

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- [Psycopg2 documentation](#)
- [How to Use the Postgres Docker Official Image](#)
- [Docker Compose with Python and PostgreSQL](#)