# Project Submission

DUE DATE May 25

STATUS Unsubmitted
Project past due

**Have project questions?** Ask a tech mentor or search for existing answers!

ASK A MENTOR

## Project Overview

In this project, you will apply the skills you have acquired in this course to operationalize a Machine Learning Microservice API. This project tests your ability to operationalize a Python flask app—in a provided file, `app.py`—that serves out predictions (inference) about housing prices through API calls.

### The Project Files

To get the starting project files, it is recommended that you **clone the Github repository**, then work locally and push your complete project to a new, Github repository of your own.

To clone this repository from a command line or terminal, you should navigate to a directory where you want to save this repository (I often use my Desktop) and then copy-paste the following commands:

```
git clone https://github.com/udacity/DevOps_Microservices.git
cd DevOps_Microservices/project-ml-microservice-kubernetes
```

### Project Submission

Before submitting a link to your complete, project repository, make sure you have included all required and complete files (including `run_kubernetes.sh`, `run_docker.sh`, `docker_out.txt`, `kubernetes_out.txt`, and a `.circleci` build directory).

> ***RUBRIC:*** *You should verify that your project is complete by reading each item in the project rubric.*

Your final project should cover the following tasks:

- Test your project code using linting
- Complete a Dockerfile to containerize this application
- Deploy your containerized application using Docker and make a prediction
- Improve the log statements in the source code for this application
- Configure Kubernetes and create a Kubernetes cluster
- Deploy a container using Kubernetes and make a prediction
- Upload a complete Github repo with CircleCI to indicate that your code has been tested

**The final implementation of the project will showcase your abilities to operationalize production microservices.**

Project:
Operationalize a Machine Learning...

SEARCH

RESOURCES

CONCEPTS

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