

# CS 547 Web Scripting

## Project 2: Python Containerized Website – Aztec Game Studios

Due Date: November 21, 2018 23:59 pm PST San Diego Time

Points: 100

Description: You are the webmaster for a fictitious online Indi game publisher, Aztecgamestudios.com (AGS Inc.). AGS Inc. would like to scale the website you built for them in the last project using Python and Docker Containers. You will be using Python and Flask to port your previous website into a containerized environment for Aztec Game Studio Corp as your second assignment. This website will serve as the scaffolding for future project.

**Rubric:** The requirements for the website are as follows.

1. **Use of Containers:** The project will make use of Docker Containers to deliver a working website for AGS Inc.
  - 50 - 41 Pts System utilizes multiple containers using docker compose to deliver a system of networked containers communicating securely with external host via http port 80 with no flaws or bugs.
  - 40 - 25 pts System utilizes multiple containers using docker compose to deliver a system of networked containers communicating securely with external host via http port 80 with one or more flaws or bugs.
  - 24 - 15 pts System utilizes one container using docker compose to deliver a system communicating securely with external host via http port 80 with one or more flaws or bugs.
  - 14 - 0 pts System utilizes one or no containers to deliver a system communicating with external host via multiple http ports with a few to many flaws or bugs.
2. **Use of Python:** The website will be coded in Python (redo your last php based website in python).
  - 30 - 21 pts site uses Python Flask, a local version of bootstrap, and MVC pattern with little or no flaws or bugs and Jinja templating system.
  - 20 - 11 pts site uses Python or Python Flask, a local version of bootstrap with little or no flaws
  - 10 - 0 pts site uses Python Flask, a local version of bootstrap, and MVC pattern with many flaws or bugs and does not match previous website/work from project 1
3. **Code organization, structure, and commenting.**
  - 10 - 6 pts, code is well commented, consistently formatted, and variable are proper,
  - 5 - 2 pts, code is inconsistently formatted, unclear variable names, has some comments,
  - 1 - 0 pts no comments, not well formatted, confusing naming conventions.
4. **Web Server technology:** Site uses modern web servers to deliver the content
  - 10 - 8 pts, NGINX is used to server out web pages
  - 7 - 6 pts, Apache is used to serve out web pages
  - 5 - 0 pts, built in python server used with site

### Turning in your assignment

We will be using gitlab to turn in the source code for the assignment. The name of the Repository should be follow this convention: CS547Project02\_Lastname\_Firstname.

Your repository must include a .gitignore file . Repositories without a .gitignore file will not be graded, there for you should do this first.

You will upload a screenshot of your rijeka Project 02 repository to the blackboard assignment which will be used for indicating that your code is ready for grading. Please uploaded to your blackboard account.