CS 547 Web Scripting

Project 3: JavaScript Containerized Website – Aztec Game Studios
Due Date: December 18, 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 rebuild the website from project using Javascript and Docker Containers.   You will be using Javascript and NodeJS 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 JavaScript:** The website will be coded in JavaScript (redo your last python or your php based website in JavaScript). You must have all the same endpoints in this website as were in projects 1 and 2, e.g. About, Register, Login, Games, Countdown, etc.
   50 - 31 pts site uses multiple JavaScript libraries such as Express.JS, a local version of bootstrap, and MVC pattern with little or no flaws or bugs and a templating system of your choice (Twig and Jinja are ok).
   30 - 11 pts site uses one or none libraries such as Express.JS, a local version of bootstrap with little or no flaws
   10 - 0   pts site uses JavaScript , a local version of bootstrap, and MVC pattern with many flaws or bugs and does not match previous website/work from project 2

2. **Use of Containers**: The project will make use of Docker Containers to deliver a working website for AGS Inc.
   30 - 21 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 Reuse of previous containers is evident.
   20 - 15 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.
   14 - 11 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.
   10 - 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.

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, Node.JS is used to server out web pages
    7 - 6 pts, NGINX or Apache is used to serve out web pages
    5 - 0 pts, built in Javascript 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: CS547Project03_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 03 repository to the blackboard assignment which will be used for indicating that your code is ready for grading. Please uploaded to your blackboard account.