**Advanced Web Application Development (CS 421/621)**

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**Logo, company name

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***Introduction:***

We will develop an online website to promote our new video games. The website will help in reaching a huge number of audiences, which in turn will increase our sales and profit.

Users of the website will be able to sign up/ log in to our website. They will not be able to access the online store without a log in. In addition, users will be able to add video games to their cart and checkout.

The website will have a user-friendly design.

***Technologies:***

Front-end: An html and a css file were made named “page.html” and “page.css” to access the main page to the store. In this page, the user will be able to add video game to the cart for checkout. This was made possible through the “app.js” file, where the cart system will work through this code. When you add a product to the cart, it will calculate the total price and keep track of the cart. You can also either clear all the cart or remove one item. The price will adjust depending on what is in the cart.

Back-end: A “main.py” and an “\_\_init\_\_.py” files were created to make the flask, werkzeug.security, and SQLAlchemy work as part of the back-end. These files will help the user sign in and sign up to our website. Also, other html files were created including “login.html,” “signup.html,” “and base.html” to make the system work effortlessly.

After the user creates their account, their information will be saved on a file called “db.sqlite.” We can go back and review all those that have logged in and sign up with our services.

***Results:***

This screenshot is when you first enter the website:

Graphical user interface, application, Word, treemap chart

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You sign up with your email, name, and password:

Graphical user interface

Description automatically generated with low confidence

Then, you must log in to enter the website:

Graphical user interface, website

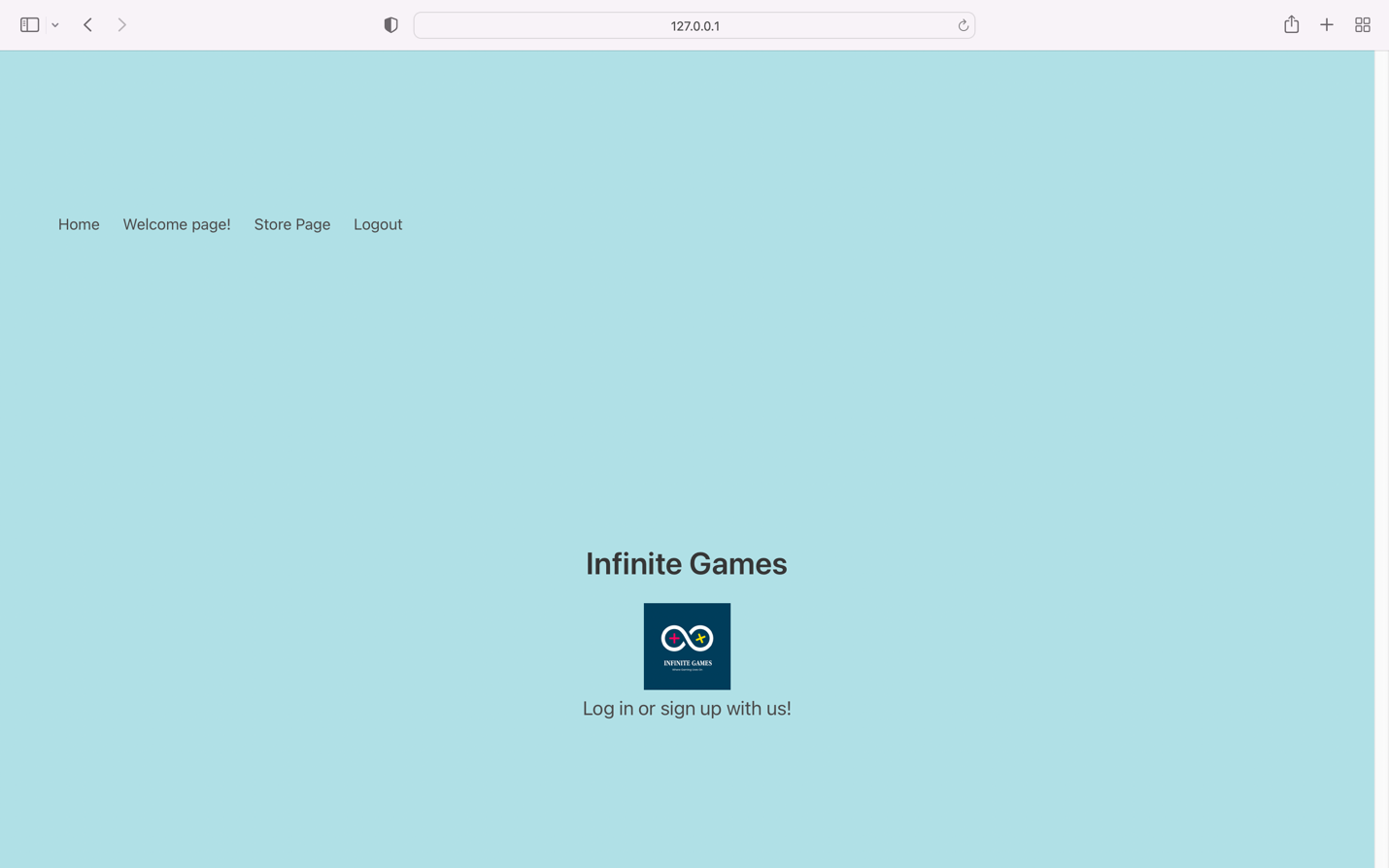
Description automatically generated

After you log in, it will take you to a welcome page that only shows up to authorized users. You can log out, go to the home page, or visit the store page:

Graphical user interface, text

Description automatically generated with medium confidence

(Welcome Page)

(Home Page)

This is the stores page: A screenshot of a person's legs and feet

Description automatically generated with low confidenceGraphical user interface, website

Description automatically generated

Graphical user interface, website

Description automatically generated

This is the contact us page:

Graphical user interface, application, Word

Description automatically generated

This is the help page:

Graphical user interface, application, Word

Description automatically generated

Now, we will show how the cart system works through screenshots. This is how it looks like empty:

Graphical user interface, application

Description automatically generated

Here, we added two video games and the total price was added together correctly:Graphical user interface, website

Description automatically generated

Then, if we remove one game the price will be deducted from the total:

Graphical user interface, website

Description automatically generated

Here is a screenshot of the file called “db.sqlite.” It keeps up with the users signed up.

Graphical user interface, text, application, email

Description automatically generated

***Discussions:***

The biggest challenge we faced was putting all the project together. For example, we would code the log in and sign-up pages, but it was difficult to link everything together with the home page. This was also the case for the cart system and the video game website; putting it together was a bit difficult.

Another challenge was using two computers to finish the project. We uploaded the project to github so we can easily share our part of the project when we were done, however, my laptop kept messing up the images and they wouldn’t show up on my end. My partner would fix them but when I push my changes to github it would ruin the pictures again. This kind of slowed things down for us.

***References:***

[***https://flask-login.readthedocs.io/en/latest/***](https://flask-login.readthedocs.io/en/latest/)

[***https://flask.palletsprojects.com/en/2.1.x/blueprints***](https://flask.palletsprojects.com/en/2.1.x/blueprints)

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