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The purpose of this website is to be an online craft shop where users can create an account and navigate to multiple different pages depending on the type of craft products needed and being able to add these different things to a cart where the user has access to a checkout page. If an admin user logs in, they can add new items, delete ones that will no longer be on the site and edit existing stock on the site.

The overall design of the website is supposed to be nice pastel colors to look a little like an artwork, especially with the different geometric/water paint backgrounds. The technical design of the website is to use html, CSS and JavaScript for the frontend as well as JavaScript for the middleware and postgresql for the backend. There are just three tables in the entire database, one for the users that includes the admin, one for the different categories in the database and one for all the different stock items in the database that connects the categories table.

Visual studio code was used for the front and middleware because of its versatility and ability to use so many different languages and integrate different frameworks. PgAdmin4 was used for the backend because i found it easier to use than some of the other applications I tried to use and had a lot of documentation and help online.

Some of the main challenges i have faced have been with CRUD functionality specifically with the edit function on the stock page due to it not fetching the item_id correctly from the database. I also had a big issue with upgrading my bootstrap framework because it broke a few things, but it didn't take too long to fix.

I learnt a lot about JavaScript and how to use it for both the front end and for the middleware. I learnt how to use new techniques for safety like cookies for keeping both the user logged in and keeping the items in their cart. I learnt how to use templates for my products pages so that I didn't have to manually code each stock page and each of their

items, which helps with making it easier to scale the website in its products on each of the pages.

If I had a bit more time, I would probably have learnt how to do things a little better in the sense of security and potentially improving things on the stock page to make editing for admins easier, make more categories, and make the overall ui slightly better and more user friendly.

I've used a lot of new applications during this project and have learnt to use new coding techniques as well.