H6WAD CA *30*%

Project Journal

## Introduction

For this project I had to create a website application that changes XML data into html. I had to create a schema to help me validate the XML data to make sure that whatever XML data I have is in the correct format and has the correct Data Types.

The web application had to have a search function that allows the user to search by the Product Code and then display the information such as Category, Code, Name, Description, Quantity and Unit Price of that product, if the product is not found the user should get a notification.

The webpage should also include a navigation menu.

## Weekly Entries

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Week #** | **Week Start** | **Tasks** | **Challenges** | **Key Points** |
| **1** | 25/09 | XML file with 10 products | Adding the inline code=”” property to products | Made 10 clothing items for my clothes shop |
| **2** | 2/10 | Schema | Make sure the schema is correct for all product and there is no errors | Had to change the first sequence tag to <xs:sequence maxOccurs="unbounded"> to make sure that all the products are validated |
| **3** | 9/10 | Parse XML using js | Getting the product information from xml to show up on the webpage | This is done by hosting the webpage on localhost and calling http request for the xml data |
| **4** | 16/10 | Search | Getting the search to work by searching for the product code | When you type in the product code the search function changes the html code to show the details of that product |
| **5** | 23/10 | XSLT | Getting the xml to generate to html using xslt | This is done by creating an xsl template and linking it to the xml |
| **6** | 30/10 | Create other HTML Pages | Create other pages to add navigation menu at top of the website | This makes the website look better and is a necessary step if you were to have a website for a real business |
| **7** | 6/11 | Add styling to the project | Make the website look a bit nicer | This gives your website some character |
| **8** | 13/11 | Testing | Make sure everything works fine like buttons and links | This is an important step before deployment |

## Conclusion

This was an interesting project. This was interesting because it exposed me to a lot of different things. It exposed me to things like XSLT, JavaScript and XML, things that I had no previous experience with but I know are important in the real world, especially JavaScript, as that is widely used in many different parts of web application development. I feel this has given me a good foundation to create my own applications in the future.