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**COMPUTER SCIENCE**

**PROJECT 3: CREATIVE LEARNING PROJECT**

**Project Description:**

Our team has been tasked with creating a website using HTML, PHP, and CSS.

**Project Requirements:**

The management of The Creative Learning Company wants to be able to monitor sales data at each of their 6 bookstores so they can make the right decisions. The clerks in any bookstore usually give a sales memo (receipt) to a customer whenever a purchase is made. This sales memo contains some useful information that Creative Learning management needs to make decisions. However, the sales memo is entered by the employee in the form of a Microsoft Word document (.docx file) which is not a suitable format for conducting data analysis. However, XML (eXtensible Markup Language) format is a very convenient format that management can use for data analysis. Usually, the management has to manually enter the data in each sales announcement .docx file into an XML document to perform their data analysis, which wastes a lot of time. Our project, therefore, aims to automate the process by receiving, parsing, and generating sales memos from employees in the form of a Word document and creating an XML document containing the sales data that management can download and use for data analysis.

Normally, the management has to manually type the data in each sales memo .docx file into an XML document to perform their data analysis and this wastes a lot of time.

**USERS**

The website will consist primarily of two types of users:

1. The store *employees* at any of the 6 Creative Learning Stores who issue sales memos to their customers.
2. The *management* of Creative Learning needs data provided by the stores to make decisions.

*EMPLOYEE*

**Attributes**

* Id:
* Username:
* Email:
* Password:
* First Name:
* Last Name:
* Date of Birth:
* Address:
* Creative Learning Store:
* Date commenced work:
* Role:

**REQUIREMENTS**

* Log in to the system as an employee
* Upload memo/files (.docx file) to the system.
* Receive feedback on the upload of the sales memo.
* View upload history and status of each upload
* Log out

*MANAGEMENT*

**Attributes**

* Id:
* Username:
* Email:
* Password:
* First Name:
* Last Name:
* Date of Birth:
* Address:
* Position

**REQUIREMENTS**

* Log in to the system as a manager
* View all recently added sales memos
* Download sales memos as an XML document for data analysis
* Log out

**OTHER DATABASE ENTITIES**

*MEMOS*

**Attributes**

* Path to uploaded .docx file
* Path to processed.xml file
* File name
* File size
* Downloaded by manager
* Date Modified
* Uploaded by (foreign key employee id)

**.DOCX Document Parsing**

A .docx document is a ZIP Archive of XML documents saved with the extension .docx.

One of these XML documents **document.xml** contains the actual content of the .docx file.

The document.xml file consists of multiple XML tags depending on the contents placed in the word document, and each tag has a <w: > namespace.

Since the format of the sales memo the creative learning stores upload is a table, the code was limited to checking for XML tags that represent MS word tables.

SCREENSHOTS







