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**SWE 4403**

**Final Project**

**Software Application**

The software system implemented for the term project is a text editor. The user will be able to create, open, and modify text documents.

**Software Architecture**

The system implements the layered architectural pattern. The system is divided into three layers: the UI layer, the System layer, and the Data Management layer. The layers contain the following classes:

**UI Layer**

* MainApp
* UI
* OpenDocumentCommand

**System Layer**

* TextDocument
* DocumentFactory
* Document

**Data Management Layer**

* DataUpdateAction
* PathUpdateAction

**Software Design Patterns**

1. **FactoryMethod** - The factoryMethod design pattern was used for the createDocumentFactoryMethod(). Right now it is only used to create Text documents but I intend to add HTML documents to.
2. **Command** - The command design pattern is used to create command objects for OpenDocumentCommand. Each command object has a “excute”.