

The Warden File System

Summary

The Warden file system is an online server side database that will allow users to store files with an AES encryption. The user will access the database through a web application front end.

Software

The main part of this System is the AES encryption, I decided to do the algorithm myself while using as few libraries as possibly.

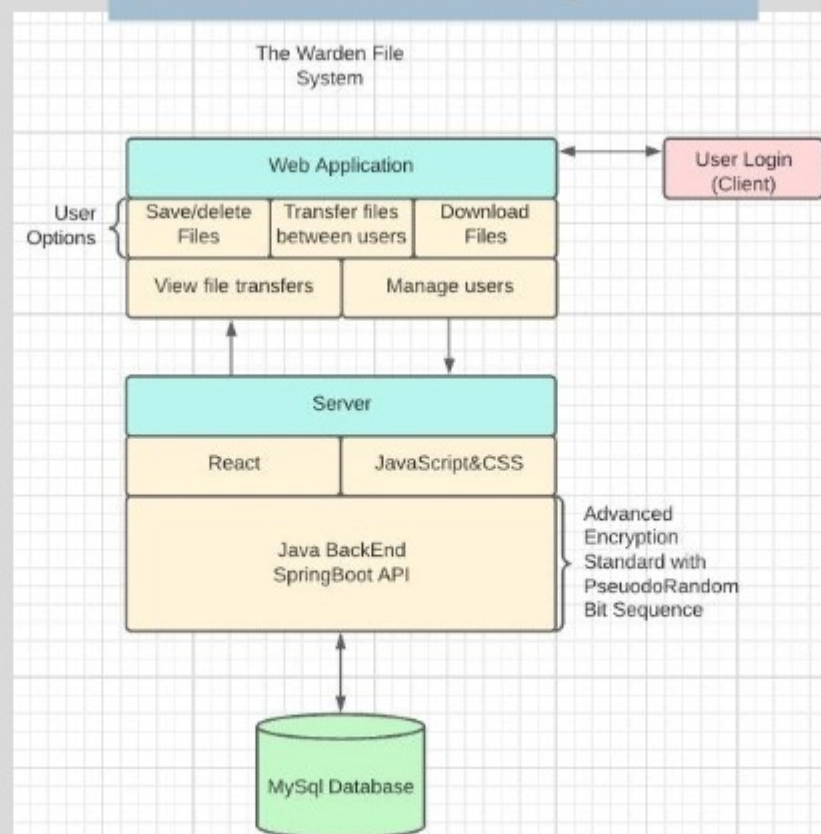
The AES encryption was written using Java, as i has a preference for it. The Web and server is programed using a react application that implements CSS, JavaScript and Nextui elements.

The order in which the System will run is as follows; The user will sign up, saving there details for login. Then they will select a file and save it on the database, the file will be encrypted before saving.

Technologies

Front End: React Web application
Server: Jave Using Spring boot to networking with the MySql Database and the frontend

Architecture Diagram



Results

GitHub:
<https://github.com/Gabranth231/FinalProject>

Through this project i have gained an understanding of AES cryptography and its uses in the world for data protection. The outcome of the project os a full stack web application for users to store data they wish to protect.

Applications

The Warden can be used as an online storage system for sensitive documents and details. The password hashing and file Encryption with AES will keep files safe