

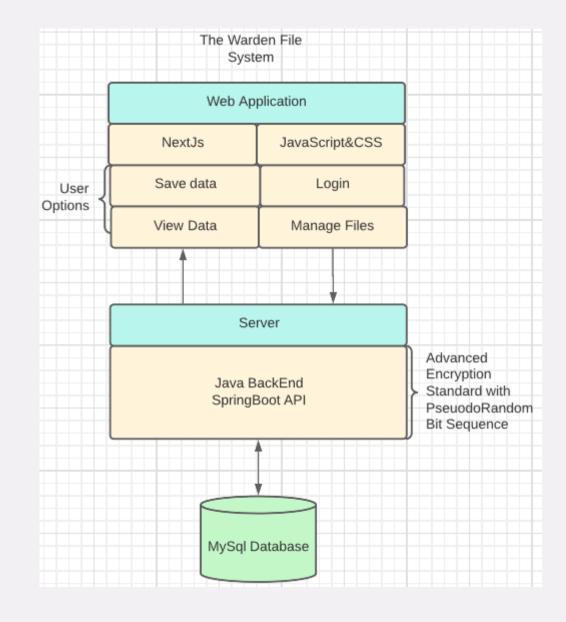
My Project, the why and the what

- I went with a full stack encryption application because I have a keen interest in both.
- I enjoy figuring out the bits and pieces to a formula and seeing how each part goes together
- Web development is a major job opportunity in recent times with the boom of new industries as of late.

- The Warden File System is based on a cloud service that uses a remote server side database to store users details and data.
- It uses one of the foremost ciphers in cryptography, AES(Advanced Encryption Standard) otherwise known as Rijndael Block cipher.

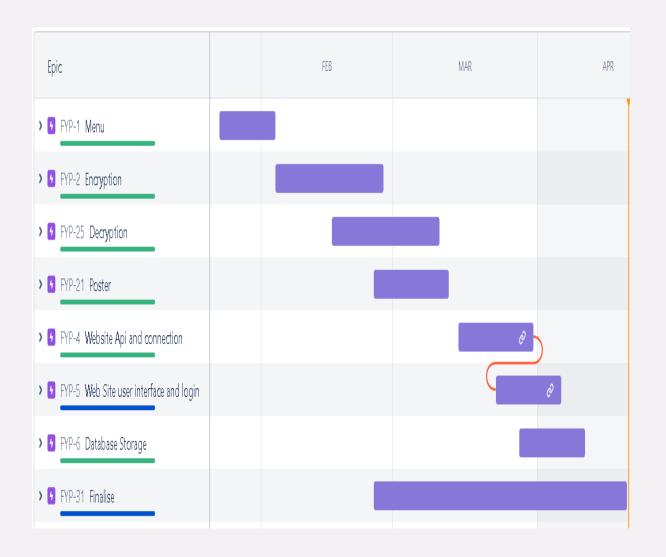
The Project Architecture

- User is able to login to their account and view the data that are stored on the database
- They can save data entered from the web application onto the database
- The users data is encrypted before saving it.



The Plan

- The Initial plan was to design the website first.
- After talking it over to my coordinator, I went with doing the AES cipher first
- Once finished with the cipher I went onto design the backend.



Conclusions

- In this project I was able to implement a service which allows data to be stored in a secure encrypted database. With each user basically having a random key for their files it would be difficult to attack the storage and get something worthwhile.
- This project has been testing at times with version issues and the algorithm however I now have knowledge of different ciphers to use in data protection