

ABSTRACT

With the development of the sophisticated era, document storage is no longer only using physical documents but has begun to develop and use them digitally. However, with the development of technology, a higher risk of the technology being exposed to obstacles, such as data hacking, human error, system damage, or data fraud. Recently, A new technology called *Blockchain* was created to prevent this risk. *Blockchain* is a technology that is decentralized, distributed, and fixed. With the creation of *Blockchain* technology which is relatively new to some people, they need a liaison to connect between the system and potential users to make the system easier to use.

In this study, the design and implementation of the interface design of a web-based system that uses *Blockchain* technology where the *website* can be used as a file storage medium, data is stored on a decentralized *Blockchain* which then can be downloaded again at any time. Users who are focused on using this *website* are students because students need media that can store files safely and not easily damaged. The design was made by making a mock-up of the *website* display design using Figma and then implementing it using visual studio code as a tool and JavaScript and CSS as the language used.

For the results of the design and implementation, the expected result is to create an interface that can make it easier for students to use the *website*. the implementation will be successful if the interface is displayed quickly, and users can easily use the features provided and produce the correct output.

Keywords: Blockchain, Mock-up, Visual Studio Code, JavaScript, CSS