Bi-weekly Report #6

---------Completed Task---------

The blob-storage to Nodejs to react connection:
We are able to interact with the Azure Blob Storage through the Nodejs backend

The unity-blockchain connection:
We have successfully established the connection between Unity and the blockchain. It can now connect to both our Ropsten testnet as well as our Quorum Blockchain. It can also interact with the smart contract that is deployed there.

The hashing function:
Found a npm package called js-sha256 which is not being utilized in the backend Nodejs.

Back-end functions to front end connections:

---------Challenges---------

Ensuring the uniqueness of data through the way we are hashing.

We are unsure whether hashing the file names with a randomly generated identifier is good enough for uniqueness or is that not robust enough as i figured that hashing the entire 3D object would prove to be difficult and has a pretty big impact on performance.

---------Foreseable Plans---------

Establishing connection between Unity and Blob Storage

Reworking the React application

This is to make the React application more aesthetically pleasing and improve its UI.

Additional features to the backend

React-Unity connection

This is only if we have sufficient amount of time to complete the more important task, as we will also have to spend time updating the documentation and website.