**CLOUD STORAGE**

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**FACULTY OF SCIENCE AND TECHNOLOGY**

**MODULE: HCSE225 – MINI PROJECT**

**REG: R199147H**

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Chapter 1: Prelude

One thing to note is that I am a very big fan of google firebase (<https://firebase.google.com/>), my favorite part being the fact that it is free to use : ) However there are other factors like it’s very easy to use, hence you do not need to know a lot about backend to build an entire application. Which I have done so by building 2 of my applications on it, Solve it (<https://github.com/rbryanben/Solve-It>) and ChatSock (<https://github.com/rbryanben/ChatSock-v1.0.2>). Bad choice to use Firebase with a C# application by the way!

I mostly use Firebase Authentication, RTD and Storage for my applications, and one thing I have noticed is that they offer the least security possible when it comes to files. Files are created with a n char long string so that a person may not easily guess the path of the file, but if the person is authenticated, they can view any file you created, they just have to guess the URL.

So, my goal is to remake a service like Firestore, but this time be a little bit better than the engineers at Google and add secure access control.

Chapter 2: Introduction

“I will call it Winterstore.”

I usually startup by mocking up some designs, but here I ought to do things differently, because this is something way bigger than the projects I usually do. So, on my way back home after I was done with my level 2.1 examinations, it hit me…Winterstore. Store being the storage part, and hence the two words combined meaning something u would want to keep safe over the winter season.

Next was a logo and the color theme for the service, so I hit up my friend [Munya](https://zw.linkedin.com/in/munyaradzi-chigangawa-45170818b) (available on LinkedIn) to do his magic and come up with something I could use for my service. Which he delivered way more than I expected by doing the following amazing work:

credit to Munyaradzi Chigangawa

