***Functional Requirements***

Platform Accessibility Requirements

* Must be accessible through common browser interfaces (Chrome, Safari, Firefox)

Configuration Requirements

* Users (Teachers) must be able to create groups
* Users (Teachers) must be able to add and remove other users (Students) to groups
* Users (Teachers) must be able to configure group settings such as group name and group accessibility
* Users (Teachers) must be able to configure permissions that other users have in the group
* Users (Students and Teachers) must be able to configure different settings on the application
  + Notification settings
  + Appearance of application
  + Accessibility settings such as text to speech for disabilities
* Users (Students and Teachers) must be able to create an account using an email and password
* Users (Students and Teachers) must be able to configure privacy settings
  + Change password
  + Change email
  + Confirm email
  + Add 2-Factor Authentication
* Users (Students and Teachers) must be able to login to the system and see and set up their full profile information at any time.

Application Requirements

* Users (students) must be able to see all their classes and browse the content for each class.
* Users (Students and Teachers) must be able to send and receive emails to and from other users
* Users (Students and Teachers) must be able to send and receive messages to and from other users
* Users (Student and Teachers) must be able to hold video conferences with other users
* Users (Students and Teachers) must be able to view an archive of newspapers and articles
* Newspapers and articles must be able to be stored within the system’s database
* The system must provide a word processing tool allowing basic word processing functionality including writing and editing text
* The system must provide a platform and support for adding simulations for teachers to provide to students (eg. physics simulations)
* The system must provide users (Students and Teachers) storage space to store any documents needed
  + Functionality should be added to allow file sharing between users
* The system must provide a search function to find resources including:
  + A way to let users search a database of research articles and scholarly articles
* The system must provide a spreadsheet tool. Must including the follow functionalities:
  + Creating tables of data
  + Creating graphs from selected data
* The system must provide a virtual learning environment. This includes a method for users (Teachers) to hold meetings with other users (Students) for class time. Must also include functionality allowing users (Teachers) to share assignments with other users (Students)
* The system must include a database to store archived material.
  + Should allow users (Teachers and Students) to access archived material if they are given proper permissions to access

Utility Requirements

* The system must provide an authentication feature.
  + Must ask for a username and password for users to enter the application
  + The system must provide a 2-factor authentication feature
* The system must log and monitor the actions of users (Teachers and Students) without breaking the privacy statement of the company.
  + The system should log and monitor actions in order to ensure the system is being used properly and in order to provide data to the company to understand how to improve the system
* The system must provide an interface to allow users to interact with the system
* Each user must be given 5GB of dedicated cloud storage which allows the user to store documents.
  + The storage space must be upgradable through payments
* The application must have enough storage to store data not needed by the user but needed for the system to run. The application must contain storage to store database information accessed by the user
* The application must have a functionality that allows users (Students and Teachers) to search the application for the any desired function, such as searching for the word processing tool

***Nonfunctional Requirements***

* The system shall be able to operate every hour of the day
* System maintenance should last no longer than one day
  + System maintenance should always be announced to users
  + System maintenance should always occur overnight by an on-call system administrator or network operator
* The recovery time of the system after a system failure shall be less than five minutes.
* The system must be able to accommodate thousands of users simultaneously without any performance sacrifices
* The system must be easily scalable so when more users join the application, the system can accommodate them
* The system must utilize caches
* The system must utilize memory as efficiently as possible
* The system must be reliable and stable
* Users must be able to access the system whenever they desire