# Project Report

## Problem Definition:

An undergraduate student spends an average of four years to complete their degree. In four years, a student will complete forty courses on average, with each course having about five to eight assignments. Organising these assignments manually can prove to be challenging and time consuming. This can also lead to a chaotic mess causing student to easily misplace an assignment. If assignments were not stored in a hierarchical manner retrieving an old assignment for future reference can be time consuming and inefficient using the manual method. Depending on the types of assignments and the file type associated with them, a simple organizing task can end up being quite cumbersome.

We as undergraduate students have faced this problem on many occasions and would like to develop a solution. Our motivations for this project are:

* To develop an app that will be making organizing course materials easier.
* To make an app that will use local file storage, like windows file explorer and google drive as a cloud storage.
* To make a cross platform application, i.e. it runs on Windows, MacOS and Linux. These three are the most common PC operating systems used in universities.

The application domain for this project will be university students.

Feasibility study:

While there are many operating systems and cloud base storage applications, they do not provide user with an interface for students to easily store and retrieve assignment. For example, windows use the file explorer application and google supplies google drive for cloud storage. Using these file systems to store assignments hierarchically it will take a lot of time, effort, patience, and commitment to maintain such a structure manually. It can also be difficult for students to support a standard naming convention for their assignment storage.

For these aforementioned reasons, our team have produced the assignment organizer application. This application user interface will provide user with efficiency and ease of use when storing and retrieving assignment files. While the user will have to manually enter the semester and courses taken in the semester it will be a more user-friendly process. Once completed inserting and reading future assignments/files will be streamlined and accessible from one location for the entire semester.

Software requirements:

Software Process Model:

The software process model used in this project is Agile. Agile is characterized as a practice of developing solutions through the collaborative effort of self-organizing and cross-functional teams. For this project Agile allows our team to adapt plans based on what features get developed, and allows us to respond flexibly to changes.

Technical documentation:

List of Programming languages:

* HTML
* CSS
* JavaScript
* JSON

Software Tools & Environments:

* Visual Studio Code
* Electron Framework with Node.js
* GitHub (git)
* Google Drive API

Acceptance testing: