# Introduction

The assigned project calls for the development of an application in a collaborative manner to support a company named Ropey DVDs. Ropey DVDs is a franchise DVD rental store chain in which several shops operate under a common name with shared purchasing and advertising yet function as distinct businesses.

Per the company's needs, the application in issue should provide a number of features. It should be able to manage the stock, loaning, and return of DVDs to its members who require such services. Moreover, each DVD should have the records of the main actors, as well as the studio and producer of the DVD.

There have also been some assumptions stated that must be followed during the development of this application. To begin, it is assumed that a single DVD can only have one producer and be linked with one studio. Aside from that, each DVD has been labeled with a genre and whether or not it is appropriate for audiences under the age of 18. Furthermore, each business maintains a list of members who are the only ones who are permitted to borrow DVDs. Each member, however, is assigned to a member category, which restricts how many DVDs they may loan at one time. Whenever a DVD is loaned, a record has to be created that includes information on the member who borrowed the DVD as well as how long they may retain the DVD without incurring any financial penalties.

A variety of tools were utilized in the development of this application. Visual Studio 2022 has been used for development.

Microsoft's Visual Studio is an Integrated Development Environment (IDE) used to create GUIs (Graphical User Interfaces), console, web applications, mobile apps, cloud and online services, and so on (Microsoft, 2022; geeksforgeeks, 2019).

As for version control of the development process, Git and GitHub have been used. Git is a free and open-source distributed version control system that can manage everything from modest to extremely large projects with efficiency and ease (Git, 2022). Likewise, GitHub provides Git-based Internet hosting for software development and version control. It provides Git's distributed version control and source code management (SCM) functions, as well as its own features. For each project, it provides access control as well as various collaboration tools such as bug tracking, feature requests, task management, continuous integration, and wikis (Williams, 2012).

Going further, the report documents the development process of the application from beginning to end, along with the tasks assigned to each individual member of the group.