# Programming Project C++ - Console Game Management System

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### I. Task Description

#### Student 2

Student 1 is responsible for game management:

- installing/uninstalling games
- viewing a list of installed games

Student 2 is responsible for profile management:

• create/delete profiles

### II. Data Structures Used

The following classes will be used:

- Game: string title, int size
- Profile: string name, Game[] games, int memory\_space

## III. File Structure

The following files will be used:

#### available\_games.txt

A file where the available games and their size will be stored:

<game title> <size GB>
...

#### profiles.txt

A file with all the profiles and their size and game lists. By default, it has a single profile named "Default":

### IV. Interacting with Executables

Application 1 will offer the following options:

```
./app_1.exe view_installed_games
To view all installed games in all profiles
./app_1.exe install_game <profile_name> <game_title>
To install a game into a specific profile, if enough memory is available
./app_1.exe uninstall_game <profile_name> <game_title>
To uninstall a game from a specific profile
./app_1.exe view_available_games
To display all games available for installation from available_games.txt
  Application 2 will offer the following options:
./app_2.exe view_profiles
To display all profiles, their memory usage, and installed games
./app_2.exe create_profile <profile_name> <memory_space>
To create a new profile with the specified name and memory space
./app_2.exe delete_profile <profile_name>
To delete an existing profile and all associated installed games
./app_2.exe view_profile_details <profile_name>
To view details (installed games, memory usage) of a specific profile
```