

Computer Science – Core Skills

Group – A

Assignment 3

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Core Skills

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Question 1: Git & GitHub

Task 15:

<https://github.com/MondayPaivaa/Assignment-3>

Task 16: Learning points

Using the `cd` command allows users to navigate through directories, either moving forward to a specific folder or going backward. Once you know your current directory, you can also use `Tab` for autocomplete, saving time by not having to type the entire path. This is very helpful when users unfamiliar with the file structure (perhaps using a computer that is not yours). In such cases typing `ls -li` or just `ls` will list the available files and directories, allowing you to see where you can or want to go.

To create a file, you can use the `touch` command, and to edit it you can use `nano`. There is other alternative using the `vi` editor. When creating or accessing a folder with spaces in this name, you must use **quotation marks** around the folder name. without quotation marks, the terminal will interpret the space as an attempt to create multiple folders or files.

For example, if you want to create a folder called “My folder”, the correct command would be:

`mkdir “My Folder”`

The same rule applies when navigating though directors with space in their name.

The `push` command uploads your local changes to the remote repository while the `pull` command bring your repository to your local project.

Question 2:

CRED

CRED is a stands for **Create, Read, Edit, and Delete**, those are actions that user be can perform on a data in a computer system. These four (4) operations are essential in managing the information. **Create** allows users to add new entries or data, **Read** gives them the ability to view or retrieve the information needed, **Edit** let users update or modify the data and **Delete** that removes data from the system. Is pretty simple to understanding CRED and is fundamental for managing resources in programming, ensuring data is handled efficiently and securely in any project.

Real-World Scenario: Game Development and Player Progress

CRED can appear in any scenario and for this the scenario would be a games and players who engage with the game. This game would be called Champions online, one game that you can create hero, superpowers, read all the missions and story's, edit powers and delete things in general.

1. **Everyone:** Players who play the games, create their own characters, and manage their progress during levels and guests.
2. **Service Provider:** The game development company or platform that stores all game data, tracks player progress, and manages the game's infrastructure.
3. **You:** The game developer or admin who updates the game, manages players, and ensures smooth gameplay.

Create:

Players create new game profiles or characters when they start playing the game. Each player can create multiple characters, setting up preferences, choosing skills, or customizing their appearance like hair, arms, colour, skin, strong so on. As a developer, you create new features and levels for the game, adding content that enhances the player experience, that helps players still play the game with new adventures and things to do when they are playing the game.

Read:

Players can read their progress, stats, and achievements through the game's interface. They can view the items they've collected, they can use them to help grow on the game, their level doing guests or alerts, or quests completed. The game developer can also read and analyse player data to understand game trends, spot bugs, or track how players engage with new features.

Edit:

Players may edit their characters or settings, such as changing outfits, powers with another build, upgrading abilities, or tweaking game preferences like sound and controls, changing the keyboard to have a better experiences and perhaps removing the sound and use their own songs while they are gaming. The game developer, on the other hand, edits the code and features to fix bugs, release patches, or update gameplay mechanics so the game does not stay as same.

Delete:

Players can delete their saved games or hero if they want to start over or stop playing. The game provider (developer) may delete inactive accounts after a certain period or remove outdated content to keep the game running smoothly.

Is CRED Enough?

While **CRED** covers essential actions for managing player profiles and game data, additional permissions may be necessary:

- **Admin Controls:** Game administrators may need advanced permissions, such as the ability to ban players for violating rules, using hacks while are playing, so they will be on log watching and see if they are a good player or they are using something to help them.
- **Monetary Transactions:** Handling in game purchases or subscriptions needs extra security. This means making sure payment go through safely and refunds are managed correctly. Unlike basic actions like creating or editing game data, managing money requires stricter controls to protect users and their transitions.
- **Access Control:** In a multiplayer games, there might be a limits on who can join certain games areas or private matches. To manage this, more precises controls are needed to decide who gets access to specific content or sessions, enduing only the might players can enter.

Conclusion:

In a game development scenario, **CRED** ensures that players can manage their characters and progress while developers can maintain and improve the game. However, in game transactions, security, and administrative functions may require more specialized permissions beyond basic **CRED** functionality. **If** in game transactions, security and administrative functions do not have the requires specifications, it can be happen serious issues. Players could experience access to paid content, fraud, security branches, without the proper admin controls it would be difficult to manage the players, resolve problems and the game would not run smoothly as it should, as a result of poor experience and losing potential of trusting in the game/company.

Researches :

<https://www.youtube.com/watch?v=vNegKfkopoQ>

<https://blog.chapagain.com.np/very-simple-add-edit-delete-view-in-php-mysql/>

<https://www.youtube.com/watch?v=8jcawcG2veY>

