

Project: User and Group Management System (Total marks 100%)

Objective:

The main objective of this project is to get familiarized with user and group management in Linux

Project Description:

Imagine you're an admin for a startup company, TechnologyXServices. You've been tasked to set up user accounts for new employees and organize them into relevant groups based on their departments.

Tasks:

1. User Creation:

- Create users for 5 new employees: **Alice, Bob, Charlie, Dave, and Eve.**
- Set up strong passwords for each user and ensure they change it at the first login.

2. Group Management:

- Create three new groups: **Developers, Designers, and HR.**
- Assign users to the groups based on the following:
 - **Alice and Charlie are Developers.**
 - **Bob is a Designer.**
 - **Dave and Eve are in HR.**

3. Directory Setup:

- Create a directory for each group in **/home/department/** (e.g., **/home/department/Developers**).
- Ensure only users of a group can access their respective directory. For instance, only Alice and Charlie should access the Developers directory.

4. File Management:

- In each department directory, create a **README.txt** file that contains a brief description of the department.
- Ensure that only group members can read and write to the file, but others should not have any access.

5. Advanced Task (for bonus points):

- Create a shared directory at **/home/shared**.

- All users should be able to read files in this directory, but only members of the **HR** group should be able to create files or directories here. However, they shouldn't be able to delete files owned by others.

6. Documentation:

- Write a brief report documenting the commands you used to accomplish each task. Include any challenges faced and how you overcame them.

Submission:

- Submit the command history showing all the commands used to complete the tasks.
- The documentation report.