Faculty of Technology and Engineering

# Department of Artificial Intelligence and Machine Learning

# Practical List

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| --- | --- | --- | --- | --- | --- |
| Academic Year | : | 2024-25 | Semester | : | 4th |
| Course code | : | AIML208 | Course name | : | Operating System |

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| Sr. No | **Practical** |
| 1 | **Practical 2: Managing Users, Groups, and Permissions in Linux**  Scenario: Setting Up and Managing a Team for a Group Project  **As a system administrator for a team of 4th-semester AIML students working on a group project, you need to create and manage user accounts, groups, and permissions to ensure proper collaboration and security. Follow the steps below to complete the tasks.**  **Part (i): Create, Delete, and Manage Groups**   1. Create a group named Project Team. 2. Create additional groups for different roles, such as Developers and Testers. 3. List all groups on the system to verify their creation. 4. Add users student1, student2, student3, and student4 to the Project Team group. 5. Add student1 and student2 to the Developers group, and student3 and student4 to the Testers group. 6. Delete the Testers group if it’s no longer needed. 7. Verify the groups a user belongs to         **Part (ii): Manage Directory and File Permissions**   1. Create a shared directory named Project Files. 2. Change the group ownership of the directory to Project Team. 3. Set permissions so that only members of the Project Team group can read, write, and execute files in the directory. 4. Create a file named requirements.txt inside the Project Files directory. 5. Set permissions for the requirements.txt file so that only the file owner can modify it, but others in the group can read it. 6. Verify the permissions of the directory and the file. 7. Test access by switching to a user in the Project Team group and trying to read and write to the file. |