CCS3712 Operating Systems

Group Project Guideline

Objective: Understand how theoretical knowledge can be applied to build real-world practical solutions.

Task: Implement a real-world, practical solution for the Operating Systems problem or topic; You don't have to do novel research.

Phase 1: Group Formation
Each group must consist of a maximum of 5 students, including a mix of male and female students.
Initially, create a team in **GitHub Classroom** (The link will be uploaded to Google Classroom). After that, you can have a unique repo for a group.
Important: Name your teams as Team 1, Team 2, etc.
Please fill out the **Google sheet**.

Phase 2: Proposal Submission
Each group must submit a 1-page proposal to the GitHub repo that you are given, under the folder name *Proposal*. The proposal should include:
1. Project Title
2. Real-world Practical Problem
3. Your Solution or the Idea
4. Course Topics Covered

Approval:

The proposal must be submitted on or before **27th October 2025** via GitHub Classroom.
You will be given feedback/approval within 5 working days by updating the above Google sheet.
Only approved proposals can proceed to project execution.

Phase 3: Project Execution
You can use the preferred programming language for the project implementations.
Maintain the GitHub repository with all code and documentation.
Note: Create branches using your index no, then only your work can be identified individually.

Phase 4: Final Submission (Deadline: 12th January 2026)
The GitHub Repository, which includes source code, a README file (overview + instructions).
Need to update the Google Sheet, mentioning each member's collaboration for the work.

Phase 5: Live Demonstration of the Project (Oral Presentation) (Date will be announced)
Duration 10 minutes
Every member must speak.
During the demonstration, you have to speak about the following points.

1. What is the Real-world practical problem
2. What is your solution
3. What are the challenges you faced during the implementation process, and how did you overcome them.

Evaluation Schema: (Total marks 100)

Component	Marks
Relevance of the real-world problem to the course unit	10
How interesting and creative your solution is	5
Live Demo	20
How elegant your design is	5
How well you can explain it	20
Challenges faced and the way you overcome them	5
Your individual work (GitHub commits + what you speak during the demo)	20
Your source code and documents in the repo	15