Cloud Computing – Project Review II
Team Preparation & Showcase Guidelines

This document outlines what each team must prepare, demonstrate, and submit for Project Review II. The evaluation is based on four components totaling 75 marks, as per the official rubric.

1. Evaluation Components and Expectations

Component	What Teams Must Prepare (Deliverables)	What to Showcase During Review	Expected Format / Proof Points
DevOps Automation & Infrastructure (20 marks)	• Terraform Code Repository in GitHub (for Azure infra provisioning) • Azure Pipeline / GitHub Actions YAML for CI/CD • Documentation on pipeline stages (Build → Test → Deploy) • Screenshots / logs of successful runs	• Live walkthrough of the pipeline run in Azure DevOps or GitHub Actions • Show Terraform apply logs and resources created in Azure • Explain how variables, secrets, and approvals are handled	• GitHub Repo Link • Azure Pipeline URL • PDF / Wiki summarizing CI/CD & Terraform flow
Containerization & Orchestration (20 marks)	• Dockerfile and .dockerignore in repo • Container image pushed to ACR • Kubernetes YAMLs / Helm chart for deployment • Document describing environment promotion strategy (Dev→Test→Prod)	• Run container locally (`docker run` demo) • Show image in ACR portal • Show AKS deployment in Azure Portal / via kubectl • Explain scaling and config management	• GitHub Repo Link • Screenshots of ACR and AKS portals • Optional short recording of deployment
GenAI Integration & Cloud Service Mapping (20 marks)	• GenAI Use Case Document (2–3 use cases) with mapped Azure AI services • Proof of API keys and service setup in Azure Portal • Demo or mockup of GenAI integration in the app (chatbot,	• Walk through the GenAI flow in the app • Explain why that AI service was chosen • Show sample prompt and response output	• PDF or Slides with flow diagram • Azure portal screenshots • Demo video or live demo

	summarizer, feedback analyzer)		

Viva / Technical Presentation (15 marks)	• 8–10 slide deck covering:
	  - System Architecture Diagram (updated)
	  - CI/CD and Infra flow
	  - Containerization and K8s snapshots
	  - GenAI integration
	  - Team roles and lessons learned
		• Each member answers specific questions on their part
		• Explain key design decisions and trade-offs
		• Use architecture and pipeline diagrams for reference
			• PowerPoint Deck (10 slides max)
			• Optional: 1-page summary document

2. Submission Checklist (D-2 Deadline)

• GitHub Repo Link with Terraform, CI/CD YAMLs, Dockerfile, Kubernetes files.

• Azure Portal Access or screenshots showing deployed resources (RG, AKS, ACR, App Service, OpenAI).

• PDF Deliverable Pack (`TeamXX_ReviewII.pdf`) containing architecture, pipeline flow, and GenAI use case mapping.

• Presentation Deck (PPTX) for review day.

3. Live Demo Expectations

Step	Demo Item	Duration
1	CI/CD Pipeline run and Terraform output	3 mins
2	Container run and AKS deployment	3 mins
3	GenAI use case demo / explanation	2 mins
4	Viva / Q&A Discussion	2 mins

•

Total Demo Time: Approximately 10 minutes per team.

Ensure that all demos and documents are ready prior to the scheduled review session.