Items to Deliver

Areas of Focus for **Delivery 3 – Milestone 1**

- **Cloud Architecture Presentation (About 10 minutes per group) (10 Marks)**
  - Overview of the proposed Cloud Architecture Design for the project/product

- **Application Design**
  - **Frontend (5 Marks)**
    - Operational Design
    - Mock-ups/interface visualization
    - Technology choice explanation (programming language, framework etc.)
  - **Backend (5 Marks)**
    - Operational Design
      - Components and interactions
      - Outline services/technology to implement backend functionalities
      - Technology choice explanation (programming language, framework etc.)
  - **Data layer (5 Marks)**
    - Database schema to support application data requirements
    - Type of data and any relationships
    - ERD or schema design illustrating database structure
  - **Cloud Architecture Design (5 Marks)**
    - Scalability and High Availability considerations
    - Security considerations (Security at all cloud layers)
    - Virtual Network Design (VPC/VNet)
    - Serverless Compute plan
    - Managed database design
  - **DevOps Design (5 Marks)**
    - CI/CD Design plan
    - Source → Build → Test → Deploy

Accepted Delivery Format:

- PowerPoint PPT
- Word/PDF document
    - *Diagrams can be embedded in existing document or submitted in addition to*
    - *Prioritize use of official platform icons where applicable*

Rubric:

Criteria	Excellent (5)	Good (4)	Satisfactory (3)	Poor (2)	Many Problems (1)	Did Not Submit
Cloud Architecture Presentation: • **Accuracy**	Exceptional information accuracy matching technical requirements.	Good information accuracy matching technical requirements.	Satisfactory information accuracy matching technical requirements.	Poor information accuracy matching technical requirements.	Minimal information accuracy matching technical requirements.	DNS
Cloud Architecture Presentation: • **Q&A**	Accurate and exceptional answer to instructor's question.	Good answer to instructor's question.	Satisfactory answer to instructor's question.	Slightly accurate answer to instructor's question.	Very poor answer to instructor's question.	DNS
Application Design: • **Frontend**	Excellent outlining of Application Frontend: • Operational flow. • Visual Mock-ups.	Good outlining of Application Frontend: • Operational flow. • Visual Mock-ups.	Satisfactory outlining of Application Frontend: • Operational flow. • Visual Mock-ups.	Poor outlining of Application Frontend: • Operational flow. • Visual Mock-ups.	Very poor outlining of Application Frontend: • Operational flow. • Visual Mock-ups.	DNS
Application Design: • **Backend**	Excellent outlining of Application Backend: • Component and interaction (e.g., flow diagram). • API Routes/Endpoints.	Good outlining of Application Backend: • Component and interaction (e.g., flow diagram). • API Routes/Endpoints.	Satisfactory outlining of Application Backend: • Component and interaction (e.g., flow diagram). • API Routes/Endpoints.	Poor outlining of Application Backend: • Component and interaction (e.g., flow diagram). • API Routes/Endpoints.	Very poor outlining of Application Backend: • Component and interaction (e.g., flow diagram). • API Routes/Endpoints.	DNS
Data Layer	Excellent outlining of Data layer: • ERD Diagram/s • Scheme and Relations if applicable.	Good outlining of Data layer: • ERD Diagram/s • Scheme and Relations if applicable.	Satisfactory outlining of Data layer: • ERD Diagram/s • Scheme and Relations if applicable.	Poor outlining of Data layer: • ERD Diagram/s • Scheme and Relations if applicable.	Very poor outlining of Data layer: • ERD Diagram/s • Scheme and Relations if applicable.	DNS

Cloud Architecture Design	Excellent Cloud Architecture Design: • Architectural diagram using platform service icons. • High availability and scalability considerations shown. • Traffic flow depicted. • Security elements depicted. • Network design depicted. • Multi-tier design depicted. • Cloud Resources depicted.	Good Cloud Architecture Design: • Architectural diagram using platform service icons. • High availability and scalability considerations shown. • Traffic flow depicted. • Security elements depicted. • Network design depicted. • Multi-tier design depicted. • Cloud Resources depicted.	Satisfactory Cloud Architecture Design: • Architectural diagram using platform service icons. • High availability and scalability considerations shown. • Traffic flow depicted. • Security elements depicted. • Network design depicted. • Multi-tier design depicted. • Cloud Resources depicted.	Poor Cloud Architecture Design: • Architectural diagram using platform service icons. • High availability and scalability considerations shown. • Traffic flow depicted. • Security elements depicted. • Network design depicted. • Multi-tier design depicted. • Cloud Resources depicted.	Very poor Cloud Architecture Design: • Architectural diagram using platform service icons. • High availability and scalability considerations shown. • Traffic flow depicted. • Security elements depicted. • Network design depicted. • Multi-tier design depicted. • Cloud Resources depicted.	DNS
DevOps Design	Excellent DevOps workflow constructed: • CI/CD phases identified with specific technology provider/s. • Security measures implemented. • CI/CD Pipeline flow diagraming.	Good DevOps workflow constructed: • CI/CD phases identified with specific technology provider/s. • Security measures implemented. • CI/CD Pipeline flow diagraming.	Satisfactory DevOps workflow constructed: • CI/CD phases identified with specific technology provider/s. • Security measures implemented. • CI/CD Pipeline flow diagraming.	Poor DevOps workflow constructed: • CI/CD phases identified with specific technology provider/s. • Security measures implemented. • CI/CD Pipeline flow diagraming.	Very poor DevOps workflow constructed: • CI/CD phases identified with specific technology provider/s. • Security measures implemented. • CI/CD Pipeline flow diagraming.	DNS