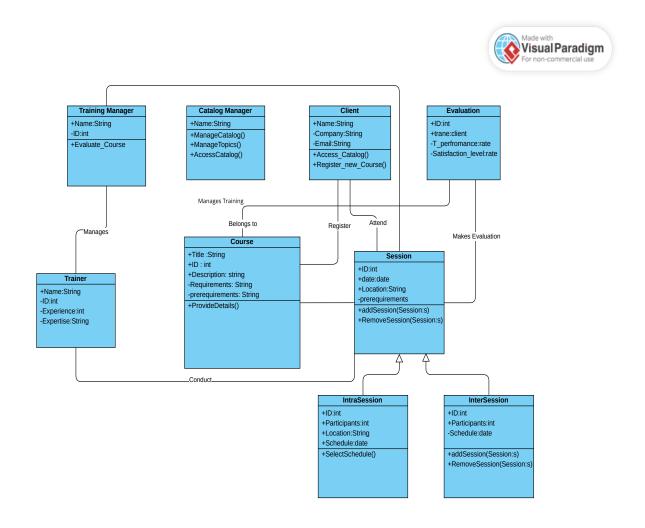
Software Design Architecture Assignment 4 BSSE-4-A

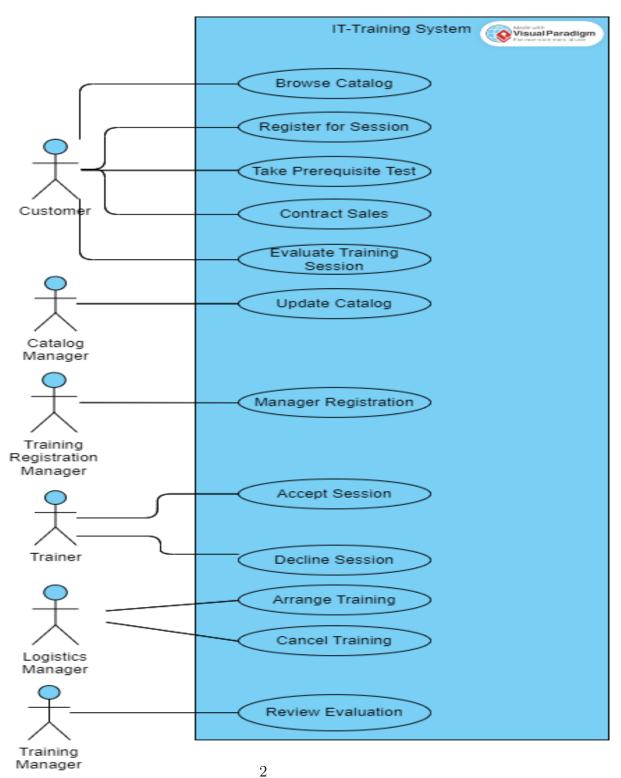
Name: Danial Saleem Roll No: 221825

May 16, 2024

Question 1: Draw a Class diagram for the described scenario. Your model should reflect all design elements of a class diagram. Provide justification of your solution.



Question 2: Design a Use case diagram for the above scenario using proper notations



Question 3: Fully Dressed Use-case

Table 1: Use Case: Register Online for Session	
Use Case: Register Online for Session	
Primary Actor: Customer Stakeholders and Interests:	
- Customer: Wants to know about the IT Training Course such as the requirements about the course.	
- Catalog Manager: Needs to ensure the training catalog is comprehensive, accurate, and current Trainers: Need accurate registration information for session planning.	
Preconditions:	
- The custom	er must have access to the IT-Training web portal.
	g Manager must have access to the IT-Training management system.
1. Cus-	ss Scenario:
tomer Ac-	
tion:	
- Initiates Registra-	The customer navigates to the IT-Training web portal and selects the desired training session.
tion:	the desired visiting session.
- Select	The customer selects a specific theme of courses.
Theme: - View Top-	The system displays the topics of the selected theme.
ics:	The system displays the topics of the selected theme.
- Selects	The customer selects a specific topic.
Topic: - View	The system displays the list of courses under the selected topic.
Courses:	The system displays the list of courses under the selected topic.
- Selects	The customer selects a specific course and reviews the course details
Course: - Registers	such as dates, locations, requirements, and prerequisites.
Online:	The customer selects a session date and location, completes a pre- requisite test if necessary, and fills in personal information and com-
	pany details if he is a valid user.
2. System	
Response: - Session	The system verifies session availability and customer eligibility.
Availability	
Check: - Confirma-	
tion:	Upon successful registration, the system generates a confirmation number and sends an email confirmation to the customer.
Alternate S	cenarios:
1. Session	
Full: - Customer	The continue of the continue that is also be full
Action:	The customer selects a session that is already full.
- System	The system notifies the customer about the unavailability of the
Response: 2. Prereq-	seats and provides an alternative course date.
uisite Test	
Failure:	
- Customer	The customer fails the prerequisite test.
- System	The system provides the details of another course in which he fulfills
Response:	the prerequisite test.
3. Intra-	
Company or Per-	
sonalized	
Training	
Request: - Customer	The customer requests an intra-company training session.
Action:	
- System	Special consultation is made with the Training Registration Man-
Response: Exceptions:	ager for the Intra-Company training request.
1. Techni-	
cal Glitch:	
- Customer	The customer faces technical issues during registration.
Action: - System	The system prompts the customer to try again later or contact IT-
Response:	Training support.
2. Cancel-	
lation Pol- icy:	
- Customer	The customer cancels registration within the specified timeframe.
Action:	1
- System Response:	The system follows the cancellation policy regarding refunds or penalties.
3. Trainer	permises.
Unavail-	
ability: - Customer	The austonian calcute a session lashing an amilable trainer
- Customer Action:	The customer selects a session lacking an available trainer.
- System	The system informs the customer about the unavailability of the
Response:	course and provides information about an alternative course.