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Course: Fundamentals of Software Engineering

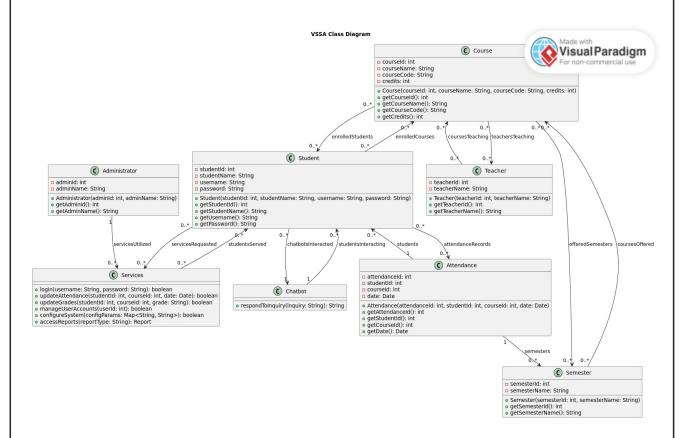
Software Modeling Tool Used: Visual Paradigm

Assignment 3 : Detail Design

Submitted to: Dr.Waqar Aziz

Use Case Diagram: Visual Paradigm System Access Personal Information View Attendance View Grades Student Update Attendance Login Teacher **Update Grades** View Student Information (Limited access based on permission) Manage User Accounts (Students, Teachers) Administrator Interact with Chatbot (Ask Questions, Receive Guidance) Access Reports (Attendance, Grades) System Configuration Respond to Student Inquiries (Natural Language Processing) Chatbot Access Student Database (For retrieving relevant information)

Class Diagram:



Sequence Diagram: Attendance/Grades/Chatbot Authorization System ∢View Info≫ ≪View Attendance≫ . \ll Authorize Info \gg ←----- «Authorization» -≪View Grades≫ _ ≪Interact with Chatbot » , alt [authorization ok] Student Info Error (no access) [authorization fail]

State Diagram: Made with Visual Paradigm For non-commercial control VSSA State Diagram TeacherLoggedIn