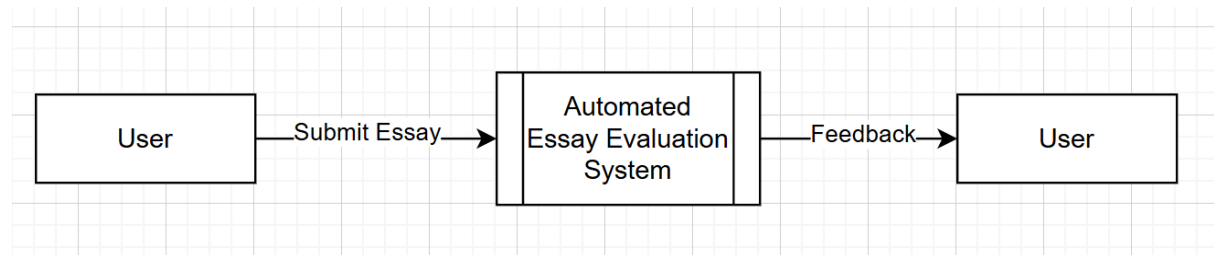
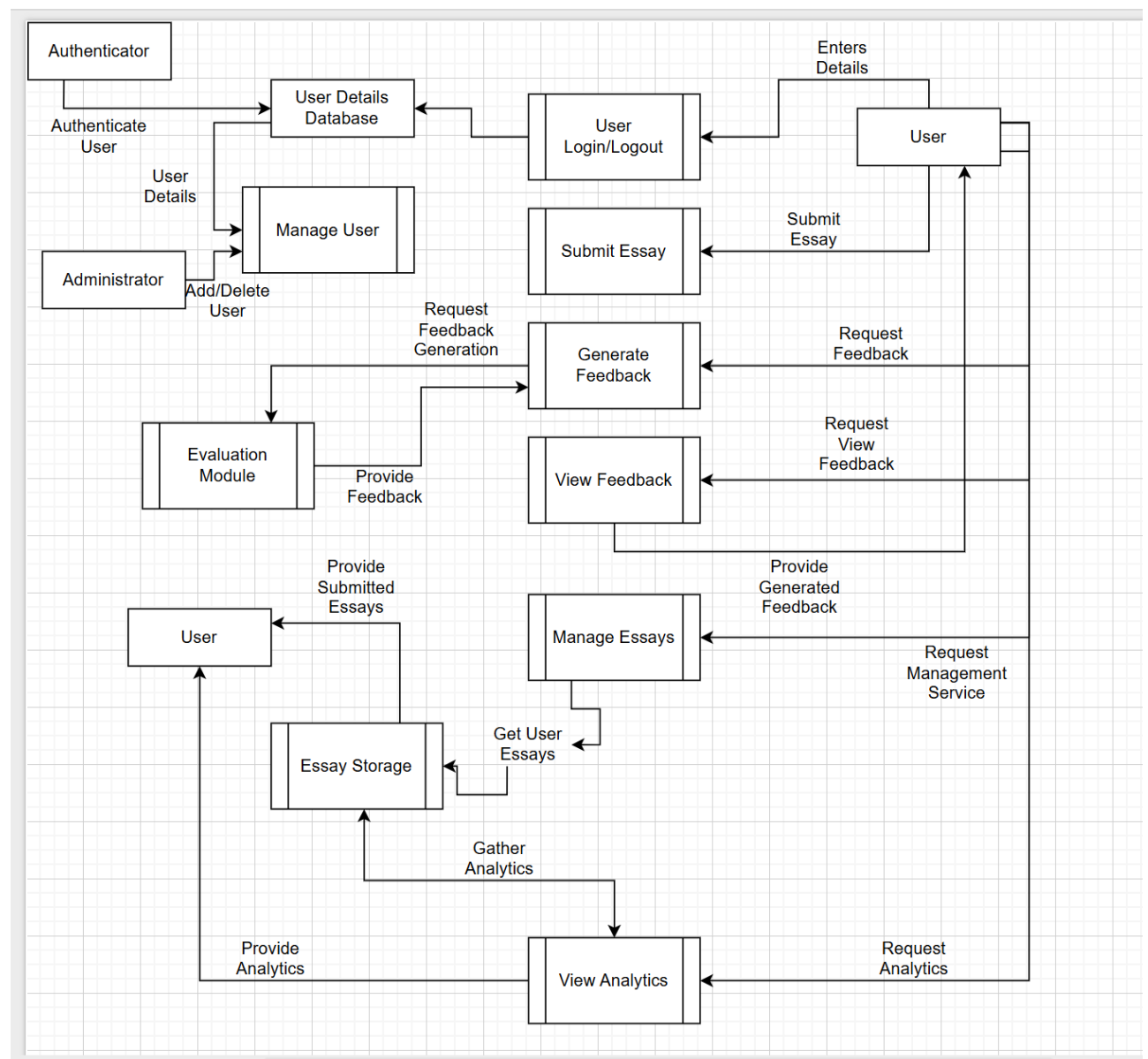


Part A:

Q1: Level 0 DFD



Q2: Level 1 DFD



Part B:

Q1: Attributes and methods with visibility(Public, Private, and Protected)

<p>UML (Class Diagram)</p> <p>Key classes involved -</p> <p>RegisteredUser - Name: String (Public) email: String (Protected) password: String (Protected) - Function Login(): Boolean (Public) Logout(): Boolean (Public) changePass(): void (Private)</p> <p>UnregisteredUser - ID: String (Public) SubmitEssay(): int (Private) ViewFeedback(): String (Private) Register(): void (Public)</p> <p>User - Name: String (Public) ID: int (Public)</p> <p>Student - Name: String (Public) ID: int (Public) - Functions SubmitEssay(): int (Private) ViewFeedback(): String (Protected)</p> <p>Teacher - Name: String (Public) ID: int (Protected) - Functions GenerateFeedback(): String (Protected) ManageEssay(): void (Protected) ViewAnalytics(): void (Protected)</p>	<p>Organization - Name: String (Public) ID: int (Public)</p> <p>Authenticate - - Functions AuthenticateEmail(): Boolean (Protected) AuthenticatePass(): Boolean (Protected)</p> <p>Administrator - UserID: int (Public) UserName: String (Public) Email: (String) (Public) Password: String (Private) - Functions Login(): Boolean (Protected) Logout(): Boolean (Protected) CreateUser(): Boolean (Private) RemoveUser(): Boolean (Private) ApproveOrganization(): Boolean (Private) ConfigEvalModule(): void (Private)</p> <p>EvaluationModule - Name: String (Public) moduleID: int (Public) FeedbackScore: float (Protected) IsActive: Boolean (Public) - Functions AnalyzeGrammar(): void (Protected) AnalyzeArgument(): void (Protected) CalcScore(): float (Protected) GenFeedback(): String (Protected)</p> <p>Essay - EssayID: int (Public) AuthorID: int (Public) SubmissionDate: Date (Public) Content: String (Protected) - Functions ValidateEssay(): Boolean (Protected)</p>
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Q2:

