Assignment 4:

Write an assignment to write a methodology using Test Driven, Behaviour driven and Feature driven model to create your own chat application, somewhat similar to what’s app.

Methodologies:

Test-Driven Development (TDD):Write unit tests for each component of the chat application before writing the actual code.Implement the functionality to pass the tests incrementally, ensuring that each unit test is passed before moving on to the next.Continuously refactor the code to improve its quality while ensuring that all tests still pass.

Behavior-Driven Development (BDD):Define user stories that describe the behavior of the chat application from the perspective of different types of users (e.g., sending a message, creating a group).Like:-

As a user, I want to send a message

As a user, I want to create a group

Write scenarios for each user story using Gherkin syntax (Given-When-Then).Implement the code to fulfill the requirements of each scenario, ensuring that it aligns with the expected behavior.

Feature-Driven Development (FDD):Break down the requirements into manageable features, such as user authentication, messaging, group management, etc.Assign development teams to each feature, with each team responsible for designing, implementing, and testing their assigned feature.Regularly integrate and test individual features to ensure they work together seamlessly.Use a feature backlog to prioritize and track the progress of feature development.