**TASK 2**

**REPORT OF NEWS PORTAL SYSTEM.**

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**SUBJECT**

**SOFTWARE DESIGN AND ARCHITECTURE**

**TEACHER**

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**News Portal System:**

**Communication Diagram incorporates several GRASP principles:**

The "Create Post" use case of news portal system, in its communication diagram incorporates several GRASP (General Responsibility Assignment Software Patterns) principles;

1. **Controller**:

The PostController handles the user's input and coordinates the creation of a post. It’s responsible for delegating the validation and saving processes to other objects.

1. **Information Expert**:

The PostService has the expertise needed to validate and save the post. It contains the logic required for these operations, making it the right choice for handling the validation.

1. **Low Coupling**:

The interactions between the PostController, PostService, and PostRepository aim to keep dependencies between objects minimal. Each class handles specific tasks, reducing direct dependencies on other classes.

1. **High Cohesion**:

Each object (e.g., PostController, PostService, PostRepository) has a well-defined role. This specialization helps maintain focus, making each object highly cohesive. For example, PostRepository is solely responsible for saving the data to the database.

1. **Creator**:

The PostRepository creates and stores the Post object. Since it manages access to the database, it makes sense for it to handle the instantiation and storage of post data.