TASK 2

REPORT OF NEWS PORTAL SYSTEM.



SUBJECT

SOFTWARE DESIGN AND ARCHITECTURE

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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.

2. 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.

3. 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.

4. 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.

5. 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.