

## Assignment 2

### **Justification for Prototype Creational Pattern:**

The Prototype Pattern specifies the cloning of an existing object rather than the creation of a new one, and it may also be altered as needed. If the cost of producing a new object is high and resources are scarce, this approach should be adopted. The main factors which driven us to use this creational pattern are :

- The classes were required to be instantiated at runtime.
- We want to limit the number of classes in an application as low as possible
- We want to make the user application oblivious (unaware) of the generation and representation of objects.

This pattern when implemented in accord's user registration and server creation aspects improvise the performance and provides the following benefits:

- It lowers the requirement for sub-classing.
- It conceals the complexity of object creation.
- It allows you to add and remove objects during runtime.