

## Hospital Management

Description

### Objective:

To work with a Spring Core application using annotations, autowiring, and bean configuration concepts.

### Concept Explanation:

1. **Autowiring** in Spring automatically wires beans together based on dependency types.
2. **Bean configuration** involves defining and configuring application components (beans) and their dependencies, through XML-based configuration or annotations.

### Concept Implementation:

1. **Autowiring** is utilized to automatically inject dependencies, such as the **Document** object, into the constructors of the **NewYorkHospital** and **LosAngelesHospital** classes, simplifying the configuration and management of dependencies.
2. **Bean configuration** is achieved using the **@Configuration** and **@Bean** annotations in the **AppConfig** class, where methods annotated with **@Bean** provide instances of **Document** objects for New York and Los Angeles patients, facilitating easy bean creation and management within the Spring application context.

Create a simple simulation for the workflow of a hospital's patient registration and treatment process. The Head Hospital sets rules for Regional Hospitals on how to process patient documents and provide treatment.