Spring framework: light wight application, loosely coupled, it can integrate other frameworks(Hibernate, JPA).

* It uses HAS-A relationship (Aggregations)

Spring IOC (Inversion of control):

* It creates the bean, configures the bean, manages the bean till is end usage.
* It helps in reading data from configuration files and property files directly.
* It is spring core.

Dependency Injection:

A🡺B🡺C🡺E 🡺 tightly coupled

It will create loosely coupled by directly injecting the data.

* Setter injection
* Constructor injection

Bean:

Bean is nothing but an object.

By default it is singleton bean

* Spring boot is autoconfiguration
* It has embedded tomcat and maven plugin
* Dependency management
* Starter POM

@springBootApplications

@EnableAutoconfiguration

@Componentscan

@SpringbootConfiguration

@RequestMapping

@Controller

@ResponseBody 🡪 Java to Json

@RestController

@RequestBody 🡪 json to java

@Autowired

Hello hello;

@Qualifier(“..”)

@Service

@Transactional

@Repository

@PostMapping – save

@GetMapping 🡪 fetching

@PutMapping 🡪 updating

@DeleteMapping 🡪 deleting

@PathVariable 🡪 reading the data from the URI

@RequestParam

@Bean 🡺 method

@Component 🡺 class

@Configuration

@ControllerAdvice + @ResponseBody

@RestControllerAdvice

@ExceptionHandler

Spring tool suite

mySQL workbench + server (my sql installer download)

postman

apache maven

apache tomcat

Diagram

Description automatically generated