**A List of all annotations I’ve learnt and used in my Spring Boot Application**

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| Annotation | Description |
| @SpringBootApplication | A combination of three annotations @Configuration, @EnableAutoConfiguration and @ComponentScan. It is used to mark the main class of our SpringBoot Application. |

**Main Package Annotations:**

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| Annotation | Description |
| @Configuration | Indicates that the class declares one or more Bean methods and generates service requests for those beans at runtime. |
| @EnableSwagger2 | Should be applied with @Configuration, it indicates that Swagger support should be enabled and loads all beans in SpringSwaggerConfig. |
| @Bean | Used to explicitly declare a single Bean and allows the user to configure it. |

**Swagger Annotations:**

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| Annotation | Description |
| @RestController | A combination of @ResponseBody and @Controller, automatically assigns every method in the Class with @ResponseBody. |
| @RequestMapping | Used for mapping a Class or a method on a specified URL |
| @Autowired | Tells Spring where to inject values in the Bean. |
| @GetMapping | Maps HTTP GET Request to the specified method. |
| @PostMapping | Maps HTTP POST Request to the specified method. |
| @DeleteMapping | Maps HTTP DELETE Request to the specified method. |

**Controller Annotations:**

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| Annotation | Description |
| @Repository | Used to mark the interface as a Repository. |

**Repository Annotations:**

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| Annotation | Description |
| @RequestBody | Indicates method parameter is bound to body of web request. |
| @Service | The class contains business logic and calls method in repository layer. |

**Service Annotations:**

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| Annotation | Description |
| @Table | Creates an SQL table with the @Column values as columns of the table. |
| @Entity | An entity is a POJO class mapped to the database. |
| @Id | The field annotated will be the primary key of the Entity. |
| @GeneratedValue | This specifies how the primary key will be generated. |
| @ApiModelProperty | Adds and manipulates data of a model property. |
| @JsonIgnore | Ignores the field when parsing the columns as json values. |
| @NotNull | Specifies that the column cannot be null. |
| @Column | Added as column to the table. |
| @OneToMany | Assigns a many value association to the foreign key. |
| @JoinColumn | Sets up an association with foreign key. |

**Model Annotations:**

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| Annotation | Description |
| @RunWith | When a Class is annotated with @RunWith, Junit runs tests in the Class referenced in this Class instead of the runner in JUnit. |
| @SpringBootTest | The general test annotation will load complete application and injects all the beans. |
| @Mock | Mocks the objects annotated, they imitate the real object. |
| @MockBean | Mocks a Bean. |
| @InjectMocks | Creates an instance of a class and injects the mocks that are created with @Mock. |
| @Before | Method annotated will run before @Test methods. |
| @Test | The method annotated can be executed as test case. |
| @DataJpaTest | Used when a test is focused only on JPA components. |

**Test Package Annotations:**