

05 - FindById

The **findById()** method fetches a single record from the database based on its primary key.

It returns an **Optional** object that provides a flexible way of handling cases where a record may or may not exist in the database.

- If the record is found, the Optional contains the entity.
- If the record is not found, the Optional is empty, preventing NullPointerException by offering safe ways to handle absent values.

Using methods like `orElse()`, we can safely handle the absence of data without null checks.

Example:

```
@SpringBootApplication
public class SpringDataJpaExApplication {

    public static void main(String[] args) {
        ApplicationContext context=
        SpringApplication.run(SpringDataJpaExApplication.class, args);
        Student s1= context.getBean(Student.class);
        Student s2=context.getBean(Student.class);
        Student s3=context.getBean(Student.class);

        StudentRepo repo=context.getBean(StudentRepo.class);

        Optional<Student> s= repo.findById(103);
        System.out.println(s.orElse(new Student()));
    }
}
```

Code Link :

<https://github.com/navinreddy20/spring6-course/tree/c6690e4f2c70d8f530d70623f13d14ff0ffd7e7d/9%20Spring%20DataJPA/9.5%20Findbyid>