Greg L. Turnquist

Video 2.2

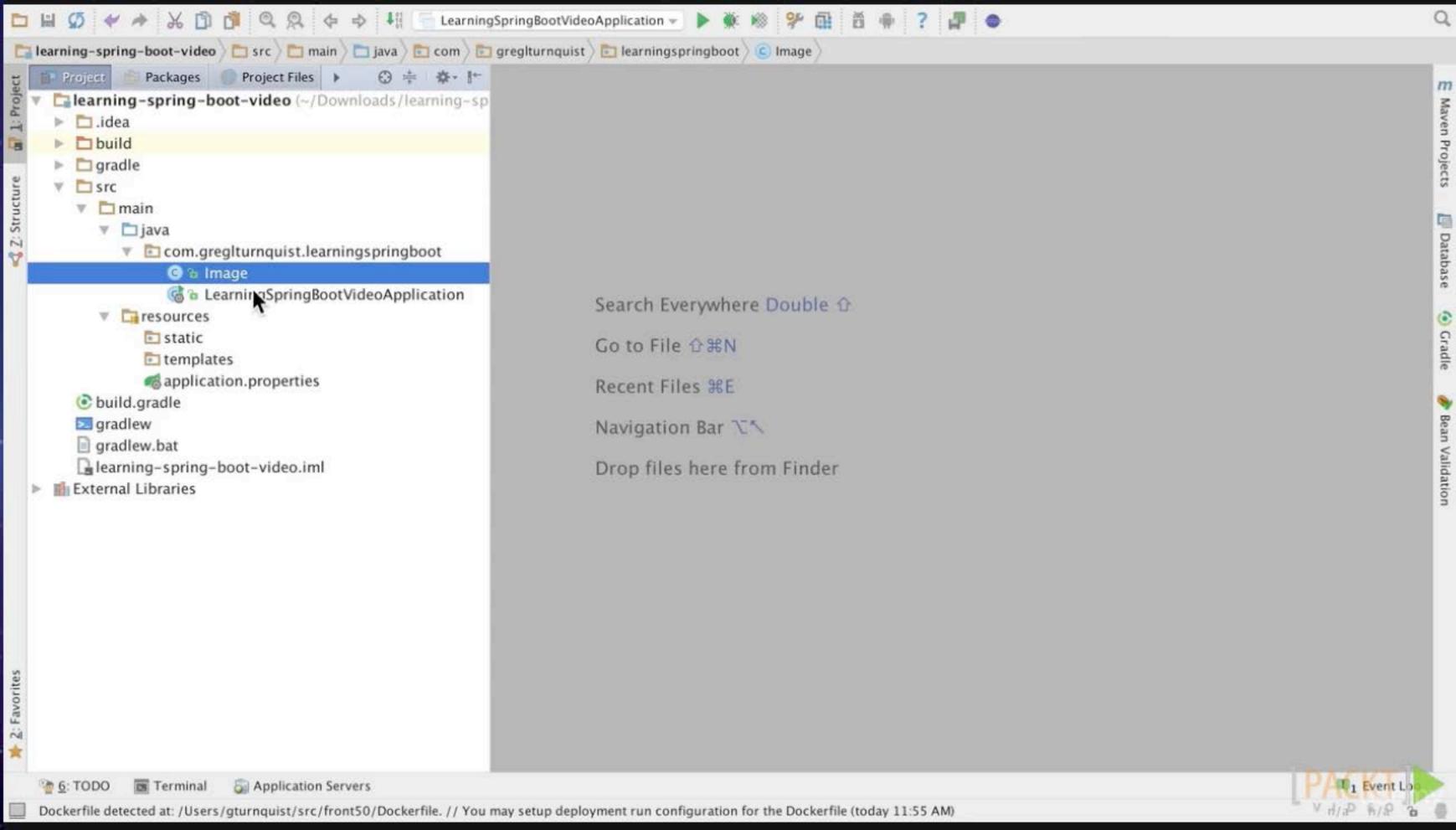
# Creating a Repository Interface for the Image Domain Object

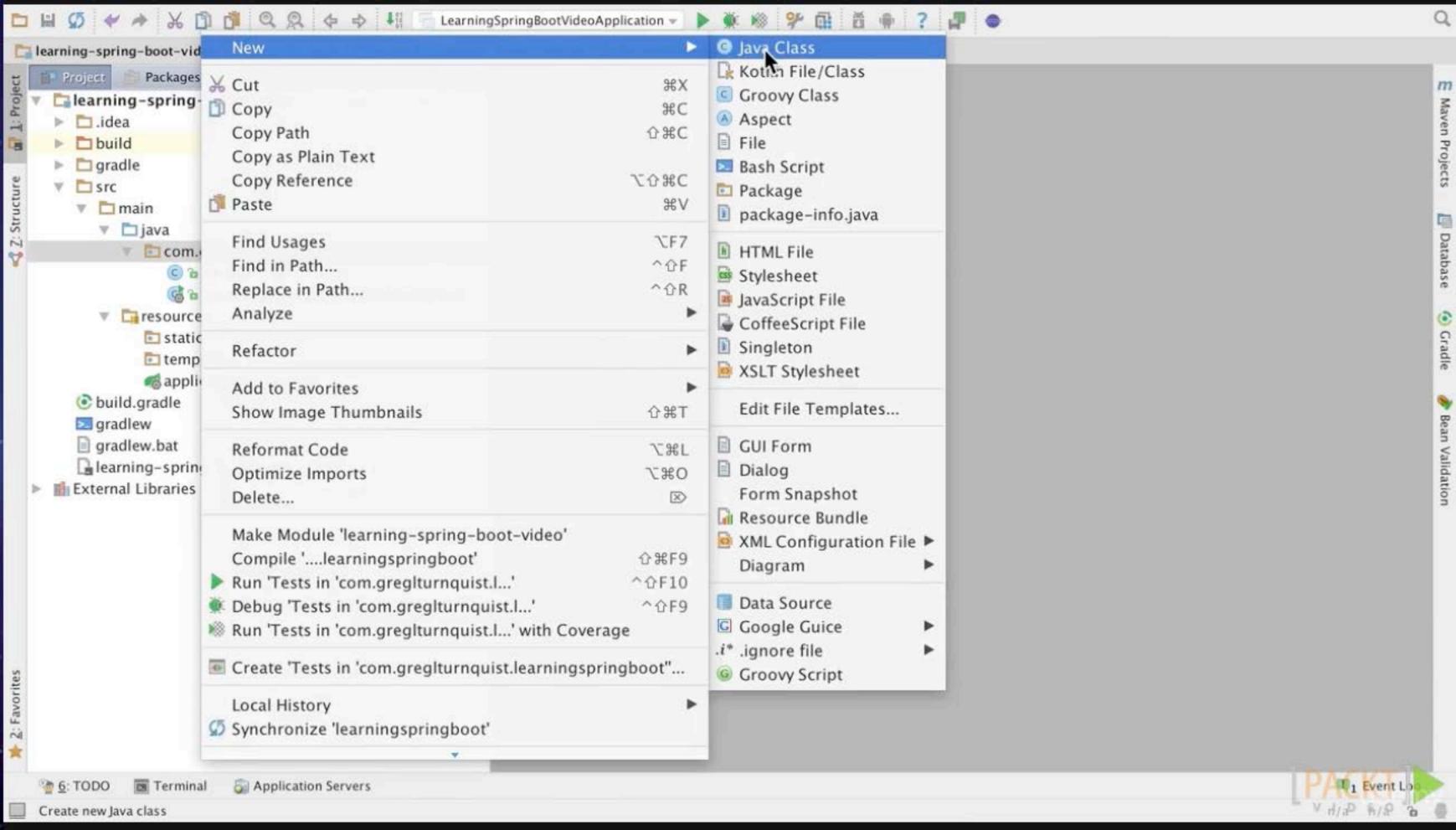


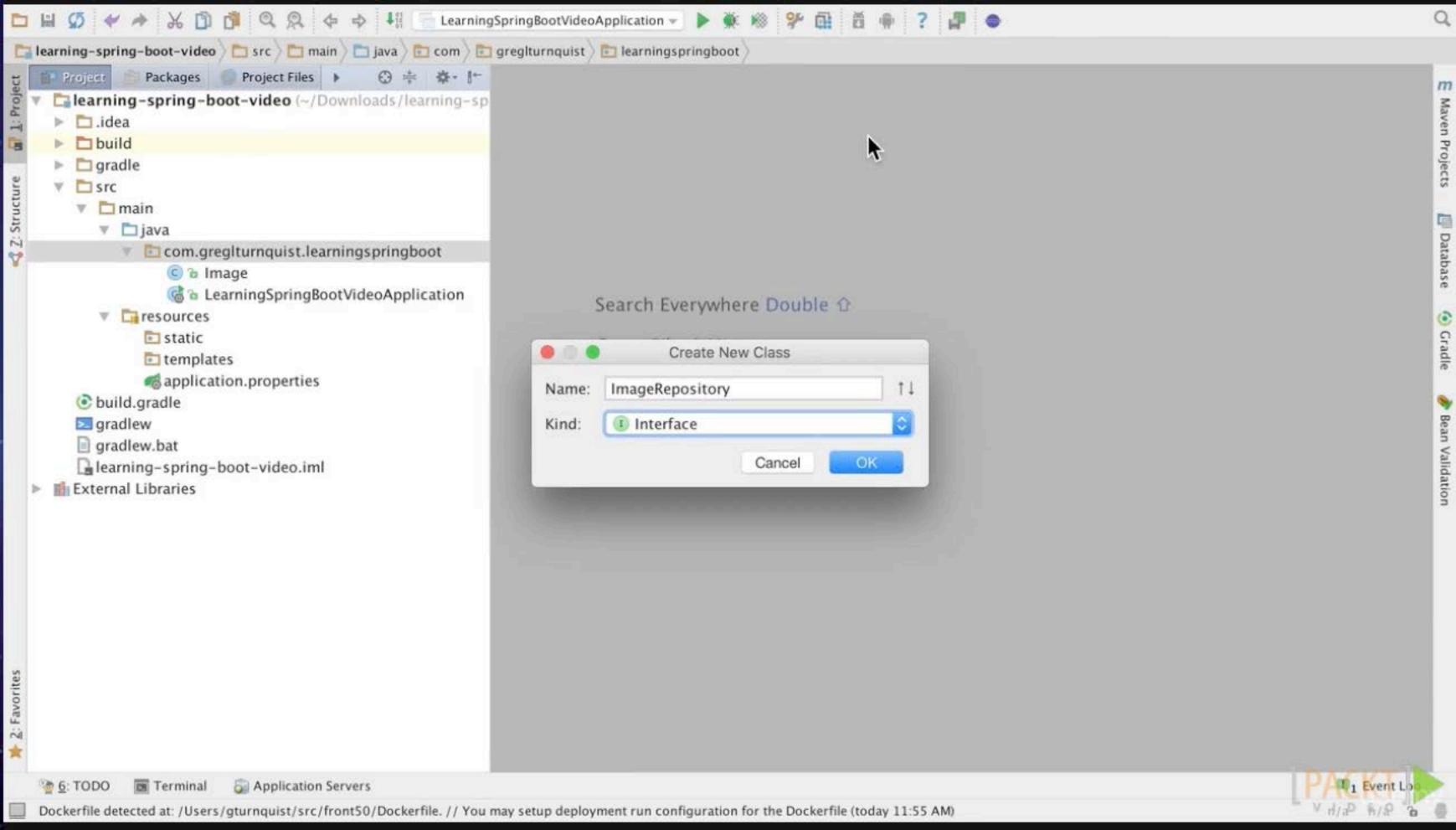
## In this Video, we are going to take a look at...

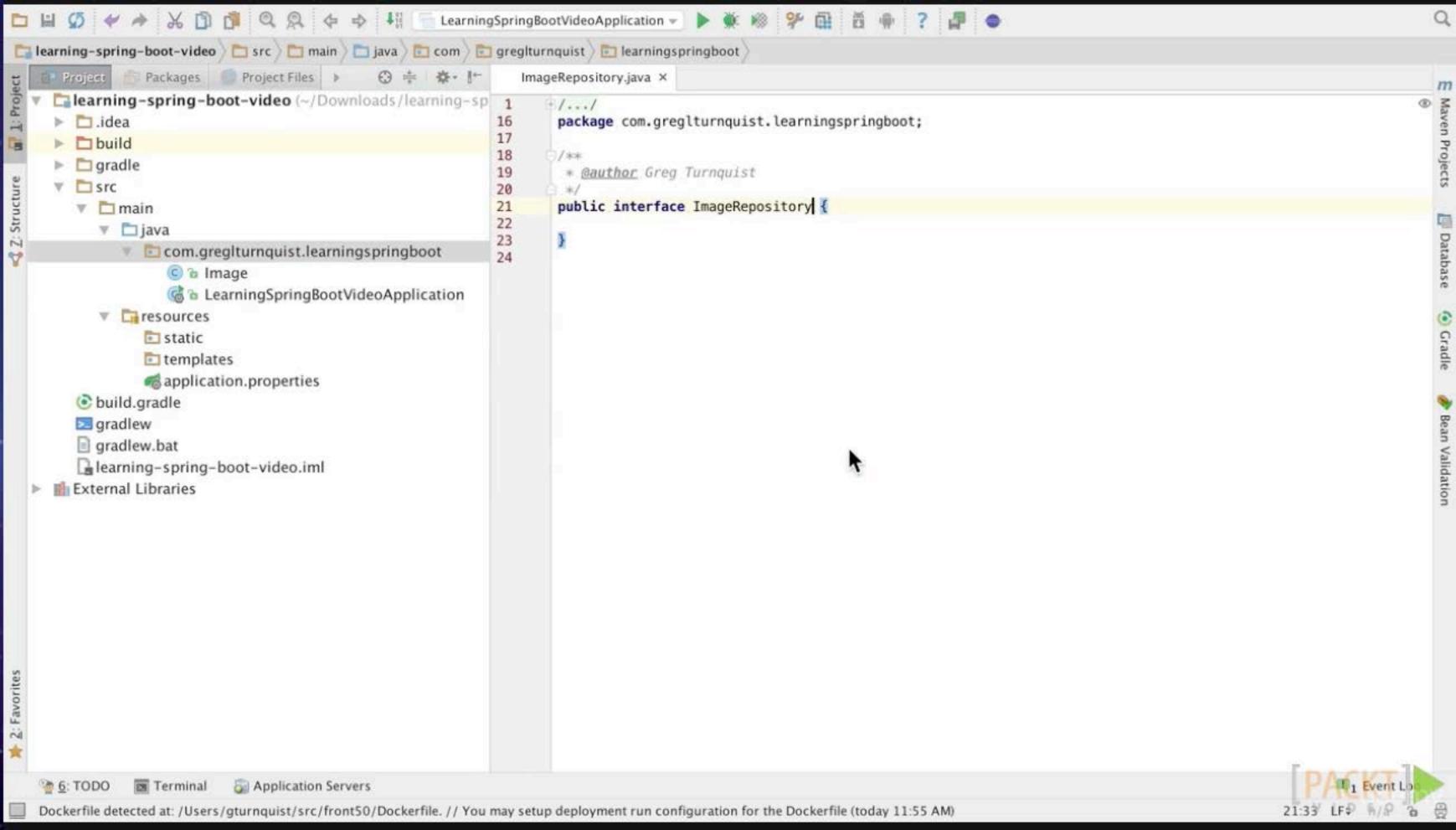
- Creating a custom repository by declaring an interface
- Touring Spring Data's PagingAndSortingRepository
- Creating a custom finder method

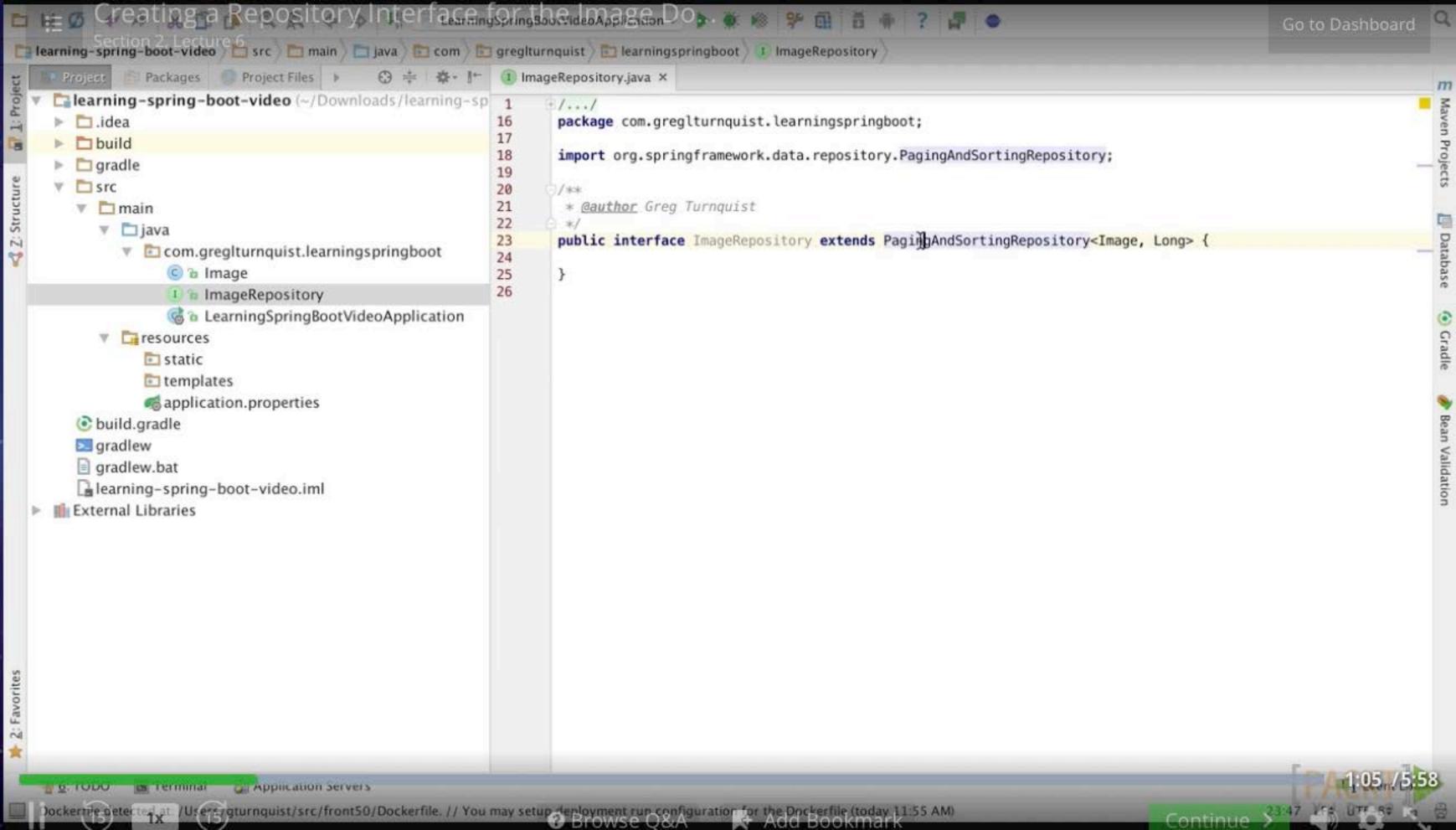


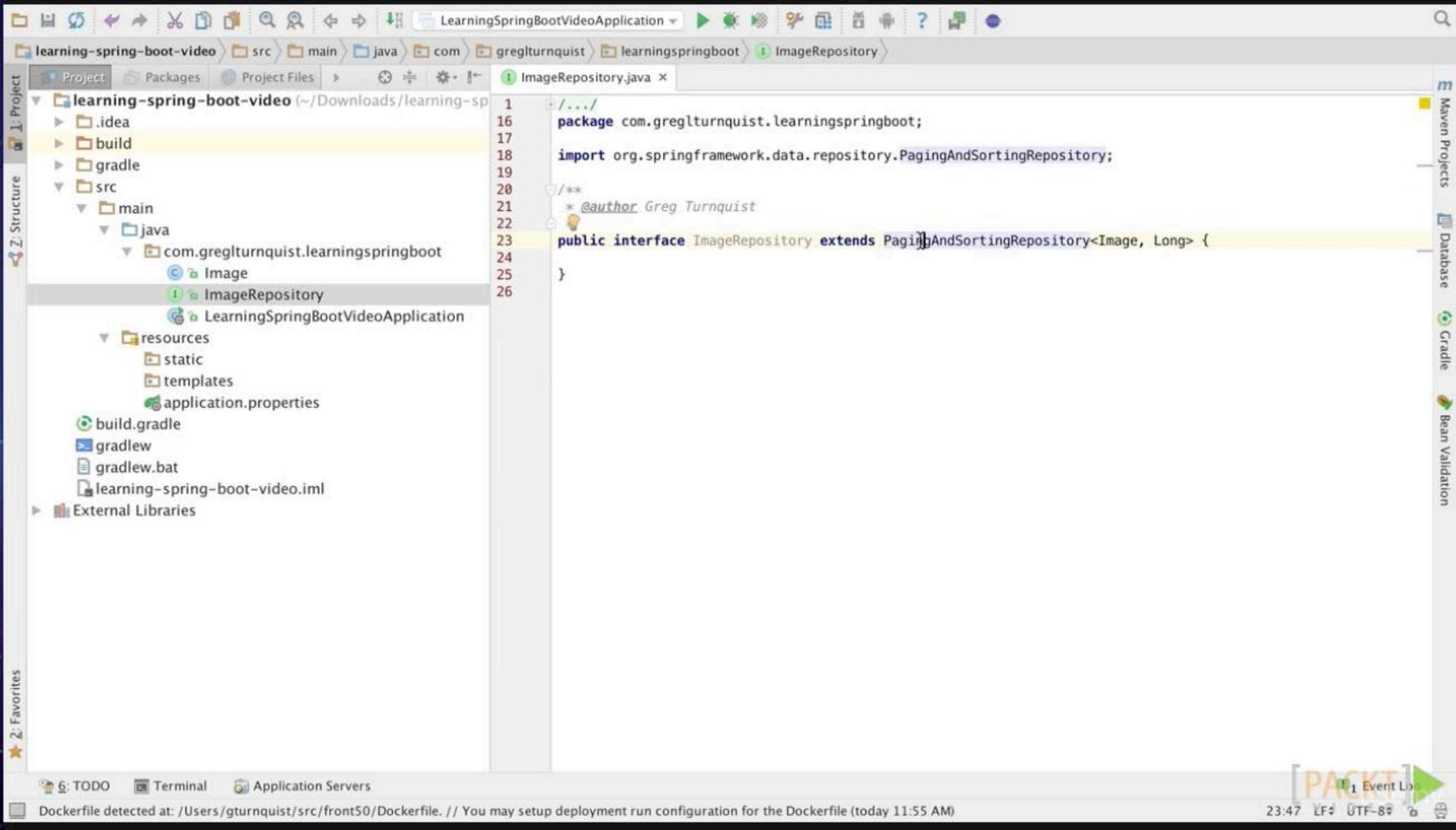


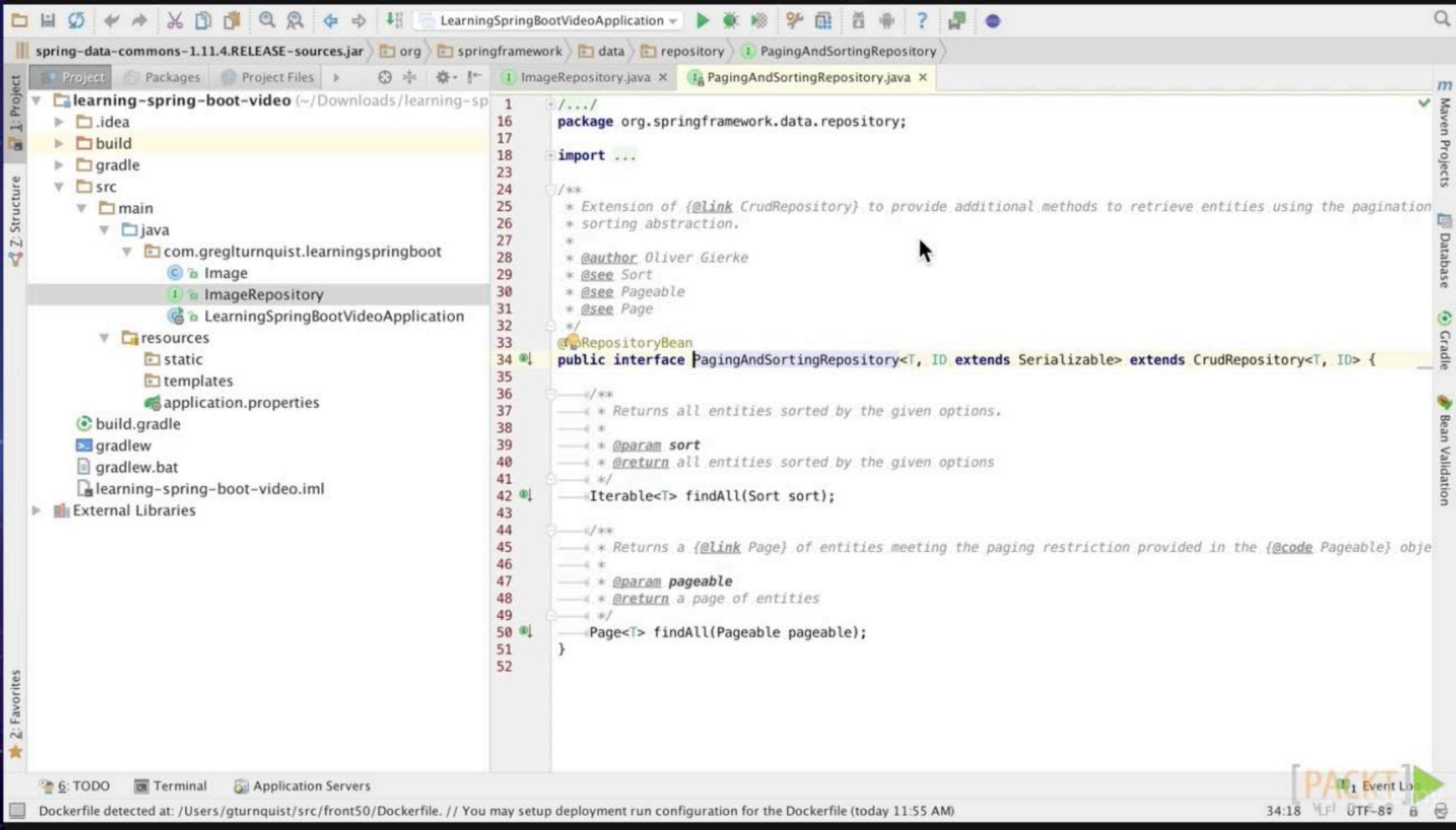


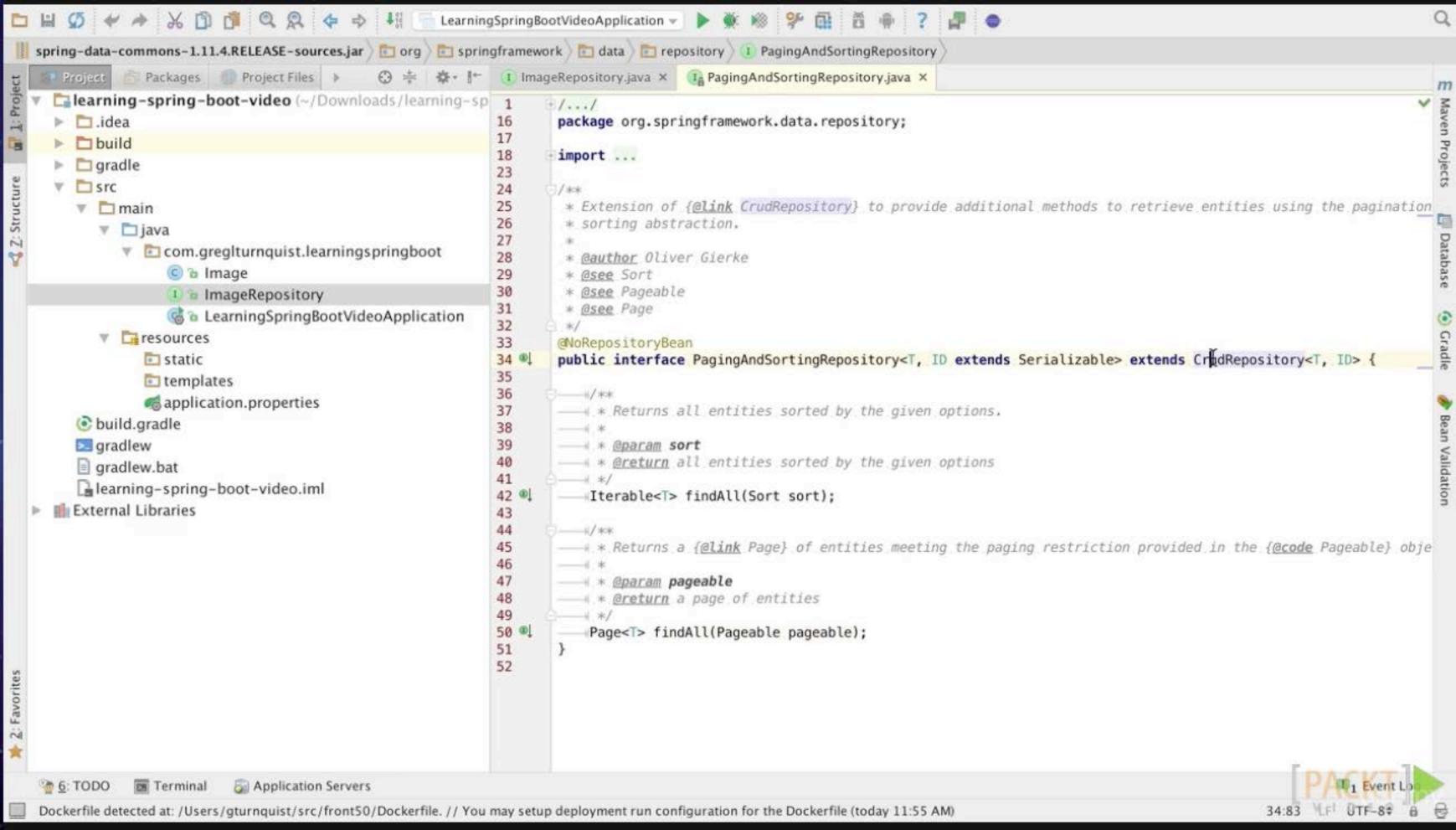


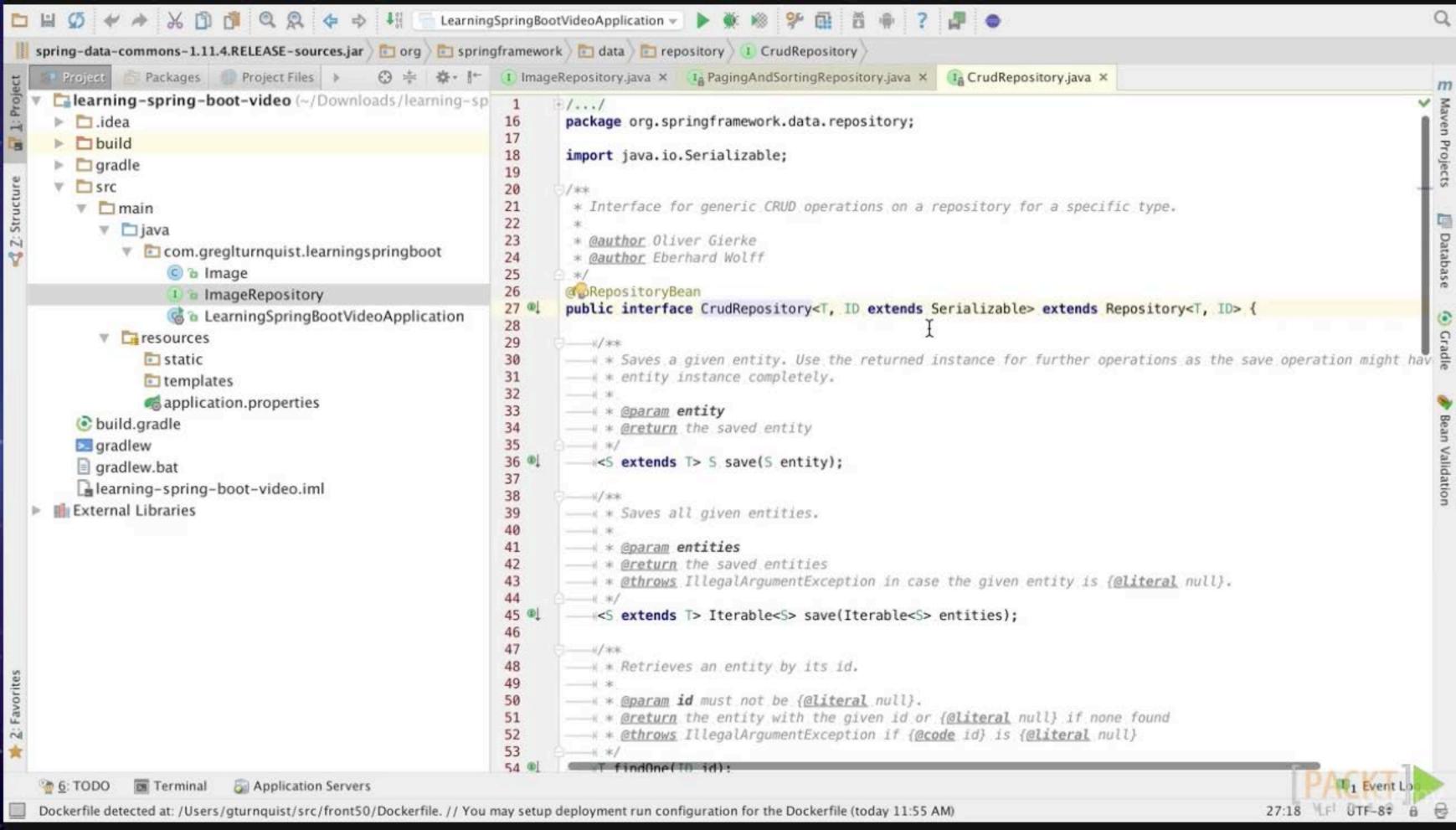


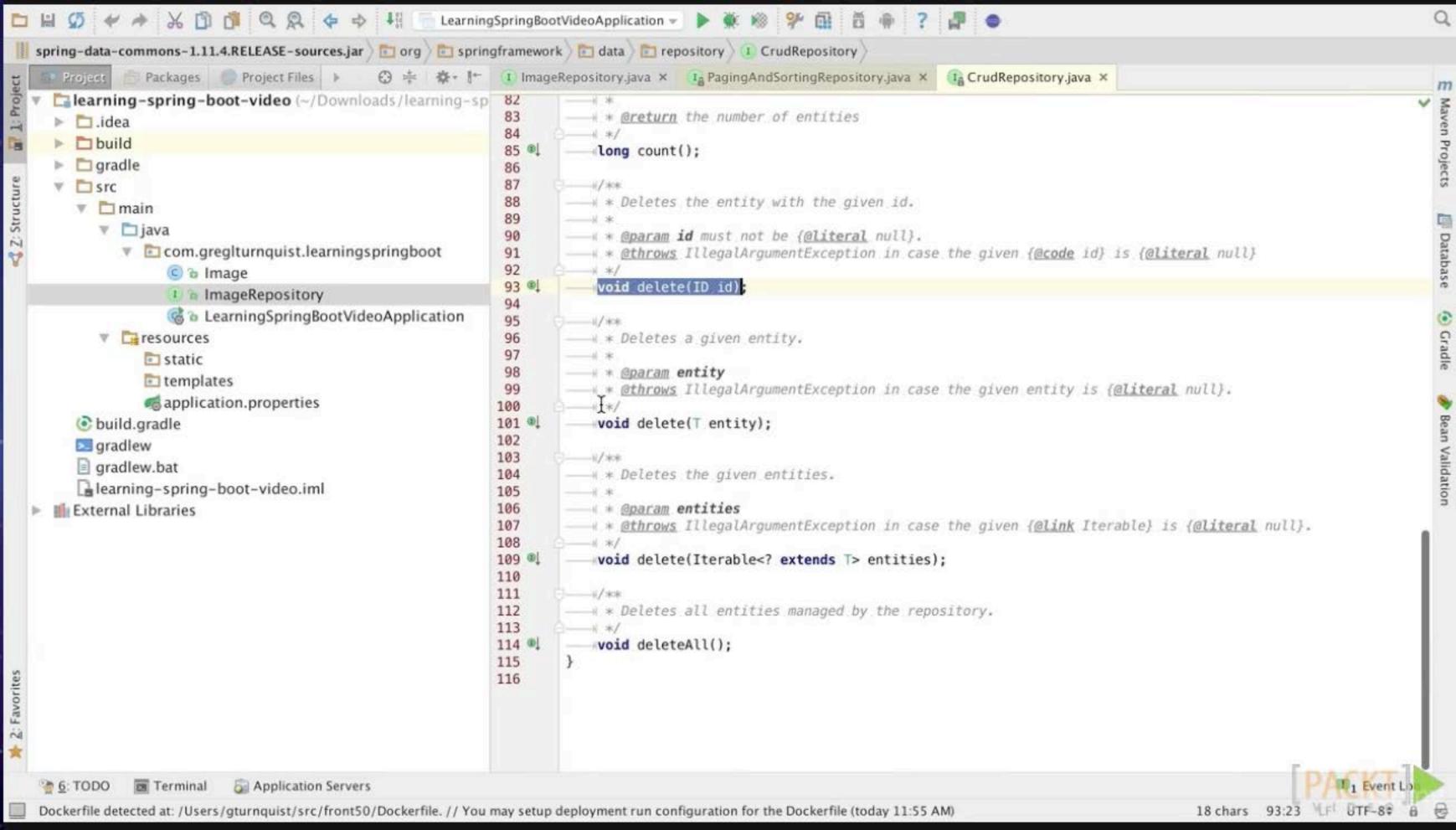


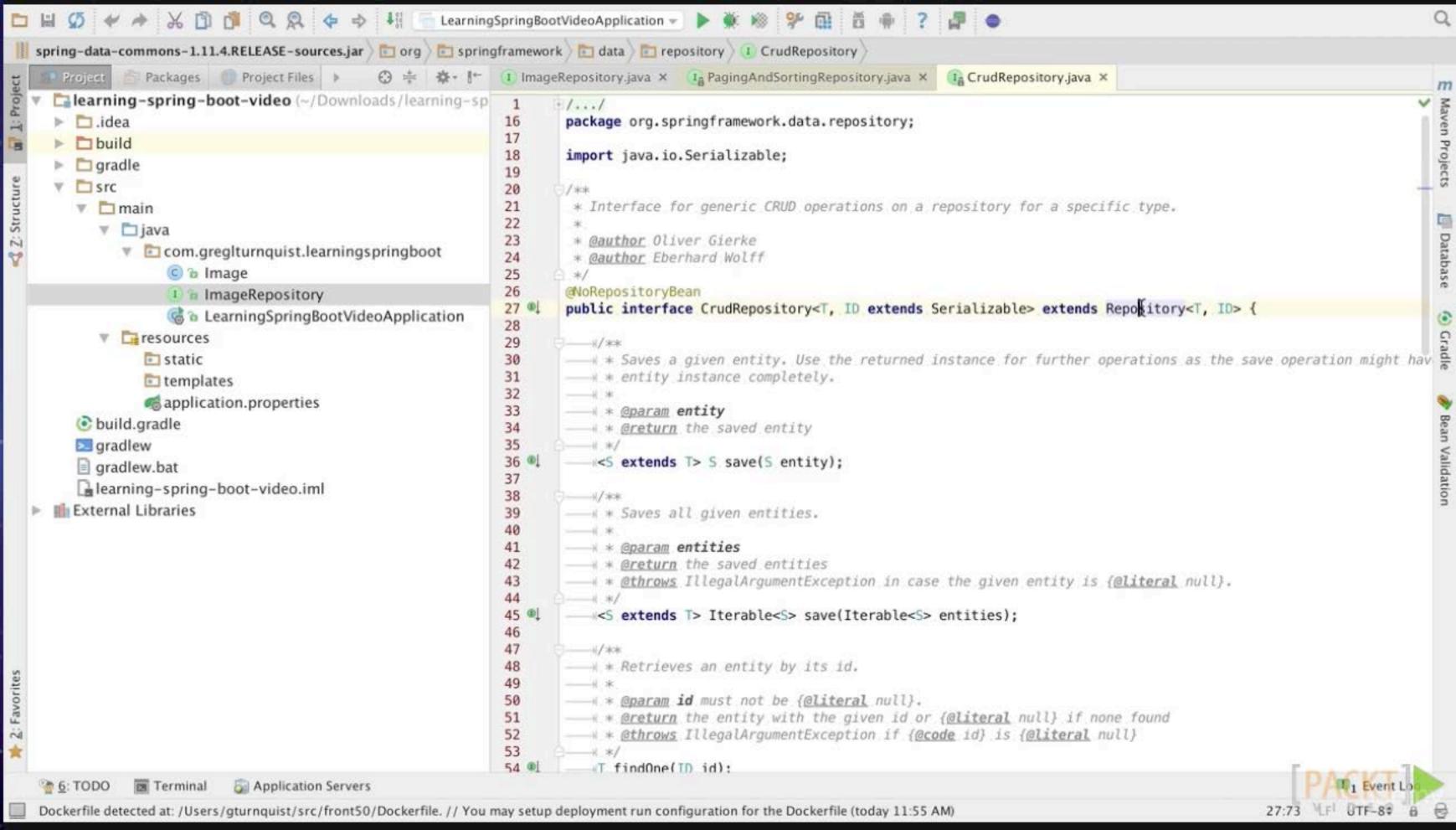


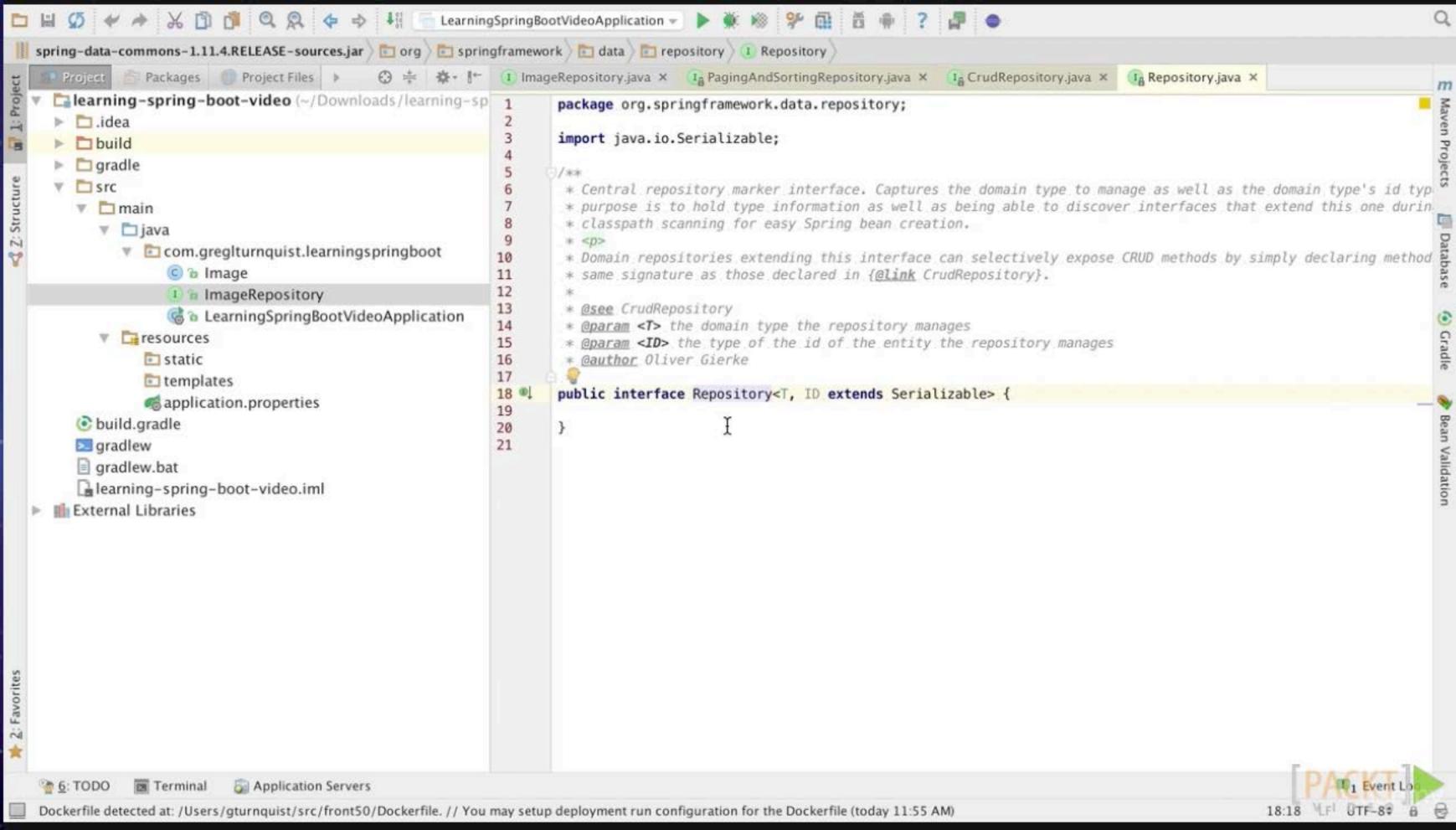


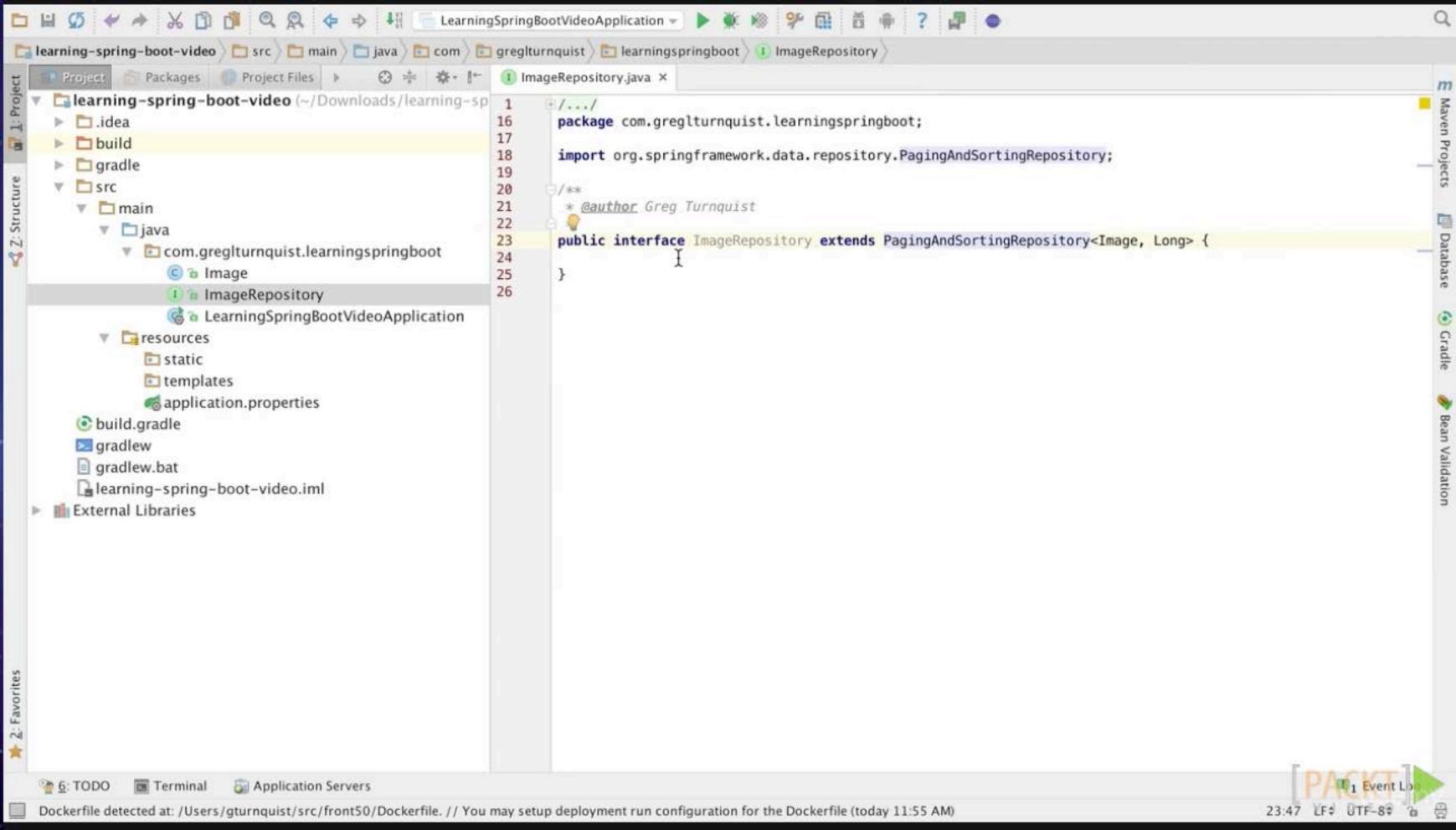


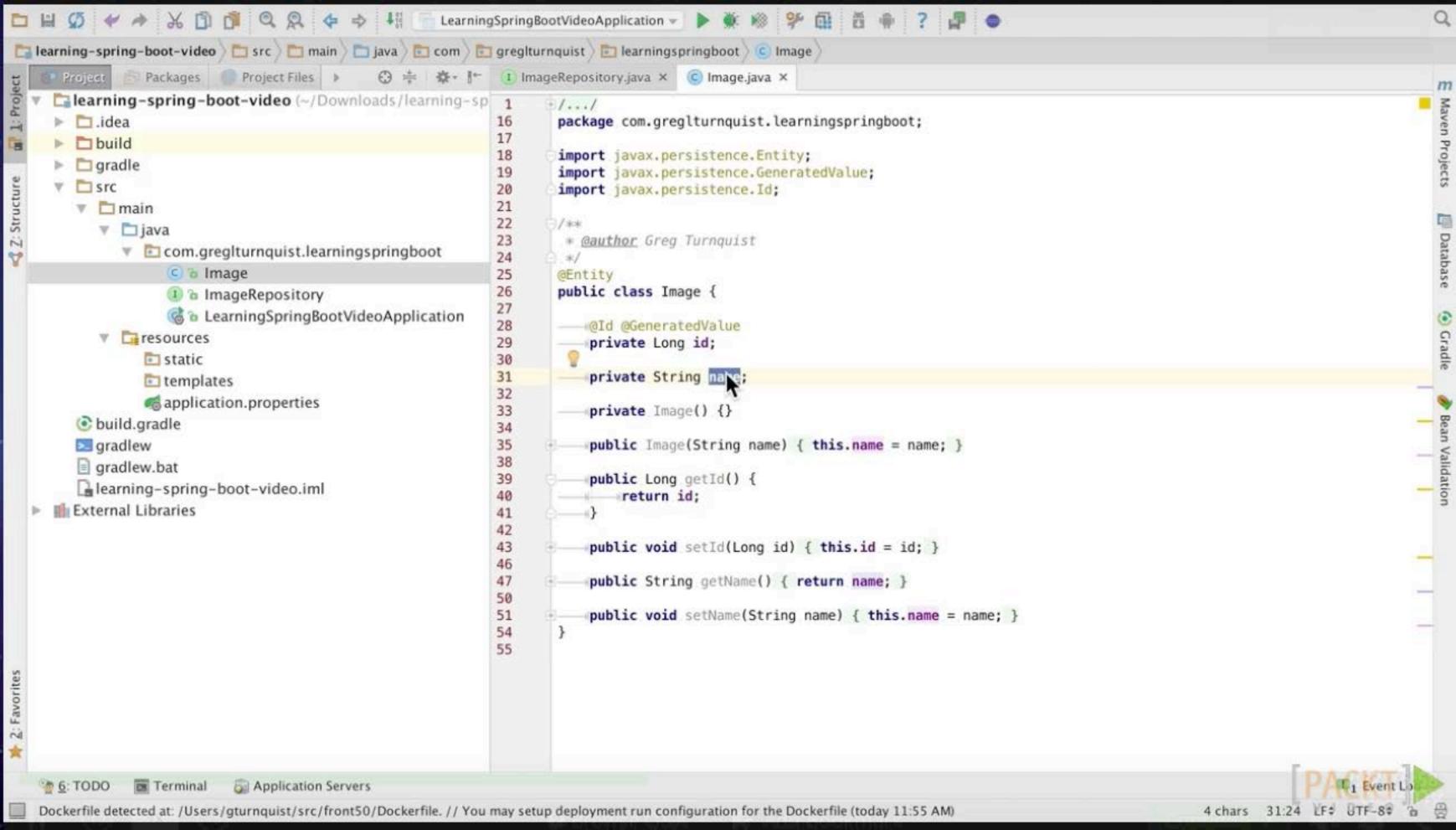


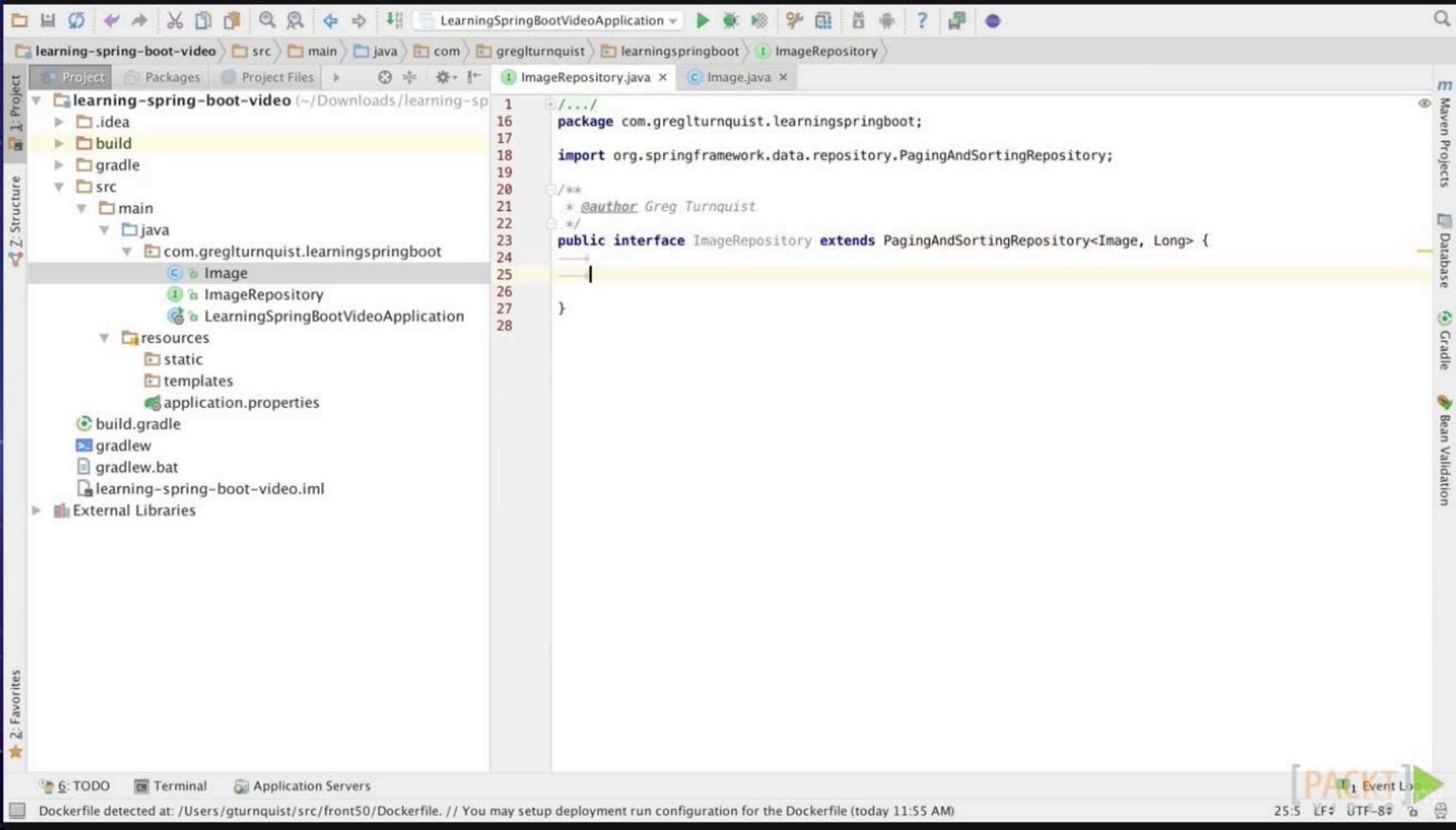


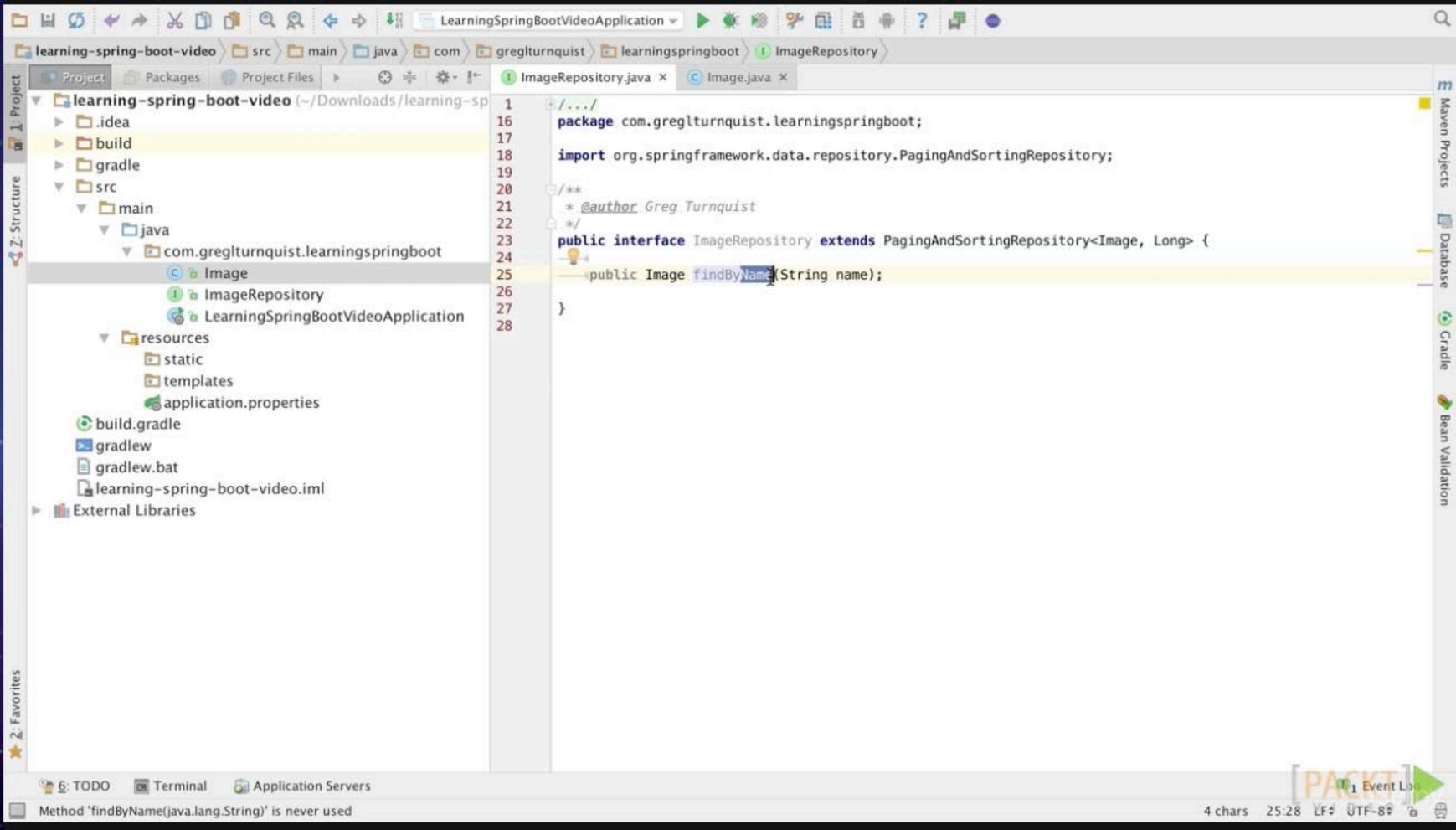












### Query Options

```
interface EmployeeRepository extends CrudRepository<Employee, Long>
{
    List<Employee> findByLastName(String f)
    List<Employee> findByFirstNameAndLastName(String f, String l)
    List<Employee> findByFirstNameAndManagerName(String f, String m)
    List<Employee> findTop10ByFirstName(...) // or findFirst10ByFirstName
    List<Employee> findDistinctEmployeesByFirstName(...)
    List<Employee> findByFirstNameAndLastNameAllIgnoreCase(...)
    List<Employee> findByFirstNameOrderByLastNameAsc(...)
    List<Employee> findByLastNameIsNull(...)
}
```



### Advanced Query Options

```
interface CoolRepo extends CrudRepository<Employee, Long>
     Stream<Employee> findByLastname(String lastname)
     @Async Future<Employee> findByLastname(...)
     @Async CompletableFuture<Employee> findByLastname(...)
     @Async ListenableFuture<Employee> findByLastname(...)
     Page<Employee> findAll(Pageable p)
     Page<Employee> findByFirstName(String f, Pageable p)
     List<Employee> findAll(Sort s)
     Page<Employee> findByFirstName(String f, Pageable p, Sort s)
```



Continue







#### Summary

- We declared a repository with a Java interface
- We extended it with a custom finder, writing zero code



#### **Next Section**

Creating a File Upload Controller

