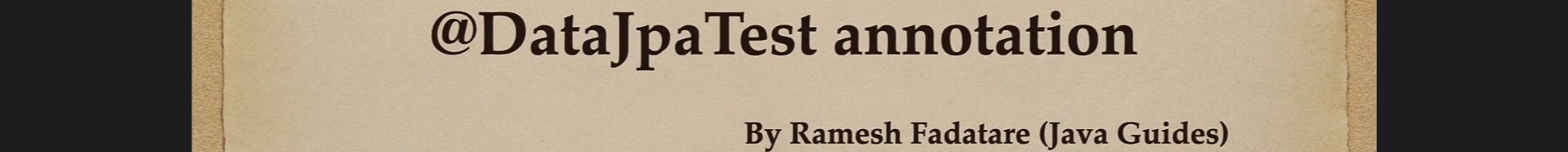
1. 
2. Spring Boot provides this **@DataJpaTest annotation** to test only persistent/repository layer components.
3. Sometimes, we have requirement to test only repository layer (like in case of Unit Testing), then @DataJpaTest Annotation comes into picture.  
   A picture containing text, screenshot, font, logo

   Description automatically generated
4. **@DataJpaTest**:  
   A close-up of a paper

   Description automatically generated with low confidence
   1. This annotation is used to test :
      1. Spring Data JPA Components such as
         1. UserRepository
         2. JpaRespository
      2. JPA Related Components such as
         1. DataSource:
         2. JdbcTemplate:
         3. EntityManager:
   2. This will load only Spring Data JPA Components not other components such as **@Contorller, @Service, @Component**.
   3. Will autoconfigure the **in-memory H2 embedded DB** for testing purpose.  
      No need to connect with Real DB like MYSQL, Postgres SQL as we will mock the data.
   4. By default, tests annotated with **@DataJpaTest**, are **transactional** will be **rolled back** at the end of each test.  
      **NOTE**: In order to disable rollback, put **@RollBackTest** at those test cases.
   5. By default, it scans for **@Entity** classes and **configures** Spring Data JPA repositories annotated with **@Repository**.
   6. **@DataJpaTest** is not only to test Spring Data JPA but also JPA related components as shown in the below snapshot.

|  |  |
| --- | --- |
| DataSource | Is part JDBC Driver |
| JdbcTemplate | Is part of Spring Data JDBC |
| EntityManager | Is part of JPA |
| UserRepository | Is part of Spring Data JPA |

So, we can test all these components from different domains can be tested with @DataJpaTest annotation.  
But we will focus on testing just Spring Data JPA Repository.

* 1. A close-up of a document

     Description automatically generated with low confidence