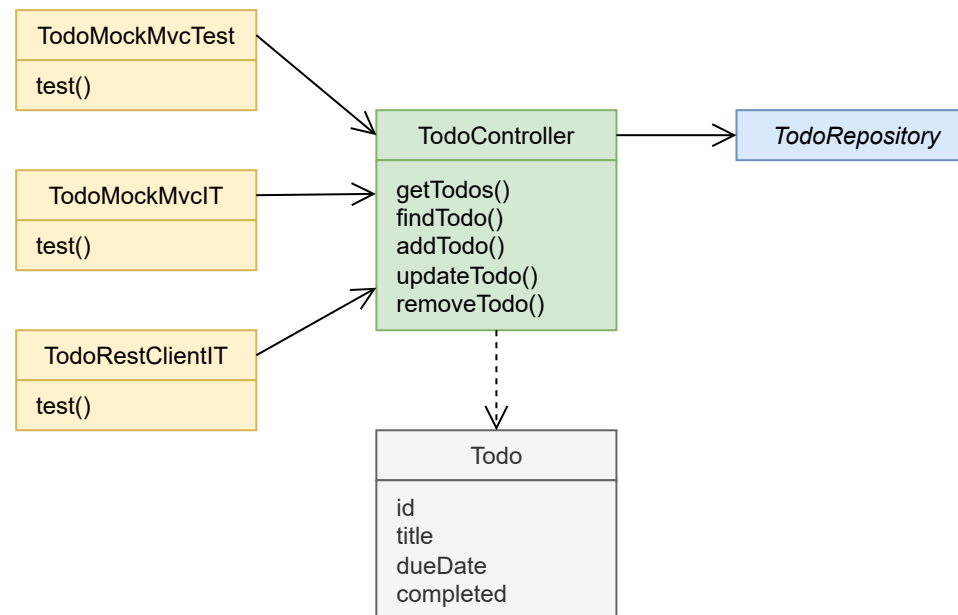


# Spring Web

## Exercise: Todo REST Testing



1. Clone the GitLab repository Todo (<https://gitlab.ti.bfh.ch/cas-sad-hs25/spring-web/todo>).
2. Add the Spring Boot starter `spring-boot-starter-webmvc-test` to the REST service.
3. Add an SQL file `data.sql` that inserts some test data into the H2 database and set the application property `spring.jpa.defer-datasource-initialization` to

true.

4. Implement a unit test `TodoMockMvcTest` that only tests the REST controller and mocks the repository using a mock environment and the `MockMvc` (<https://docs.spring.io/spring-framework/docs/current/javadoc-api/org/springframework/test/web/servlet/MockMvc.html>)
5. Implement an integration test `TodoMockMvcIT` that tests the whole REST service using a mock environment and the `MockMvc` (<https://docs.spring.io/spring-framework/docs/current/javadoc-api/org/springframework/test/web/servlet/MockMvc.html>).
6. Implement an integration test `TodoRestClientIT` that tests the whole REST service using a running server and the `RestClient` (<https://docs.spring.io/spring-framework/docs/current/javadoc-api/org/springframework/web/client/RestClient.html>).

Solution (<https://gitlab.ti.bfh.ch/cas-sad-hs25/spring-web/todo/-/commits>)