

1 -

- java 8
- maven 3.5
- git 2.x

Repository

https://github.com/slippStudy/slipp_tbd_todo

java, maven maven build .

```
$ java -version
java version "1.8.0_92"
Java(TM) SE Runtime Environment (build 1.8.0_92-b14)
Java HotSpot(TM) 64-Bit Server VM (build 25.92-b14, mixed mode)

$ mvn --version
Apache Maven 3.5.0 (ff8f5e7444045639af65f6095c62210b5713f426; 2017-04-04T04:39:06+09:00)
Maven home: /Users/mac/programs/maven/apache-maven-3.5.0
Java version: 1.8.0_92, vendor: Oracle Corporation
Java home: /Library/Java/JavaVirtualMachines/jdk1.8.0_92.jdk/Contents/Home/jre
Default locale: ko_KR, platform encoding: UTF-8
OS name: "mac os x", version: "10.11.6", arch: "x86_64", family: "mac"

$ git clone https://github.com/slippStudy/slipp_tbd_todo
$ cd slipp_tbd_todo
$ mvn test
```

...

Results :

Tests run: 3, Failures: 0, Errors: 0, Skipped: 0

```
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 7.458 s
[INFO] Finished at: 2018-01-22T17:33:39+09:00
[INFO] Final Memory: 16M/180M
[INFO] -----
```

SW Cycle

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		.	"
		.	\$ git clone https://github.com/slippStudy/slipp_tbd_todo
		.	\$ cd slipp_tbd_todo \$ mvn test
		.	\$ git checkout -b "branch_name" "DDB-1__Collector_" .
		.	
		.	
		.	
		.	
		.	
		.	
		.	
		.	.
		.	\$ git add . \$ git commit -m "commit message" \$ git push [DDB-1] .
	pull request	github pull request	.
			.
		.	
		"	

Git

git Cyle

- , git checkout
- , git branch -b new_branch
- ,
- stage , git add new_file
- , git commit -m "commit message"
- , git push

```
$ git checkout https://github.com/slippStudy/slipp_tbd_todo
```

```
$ git pull
```

```
$ git branch -b branch_name
```

```
.
```

```
+
```

```
ST-1, 'TodoManager.create '
```

```
$ git branch -b ST-1_TodoManager_create_
```

```
$ git branch  
* master
```

```
$ git checkout -b my_branch  
Switched to a new branch 'my_branch'
```

```
$ git branch  
* my_branch  
  master
```

stage

```
stage . .
```

```
$ git add new_file
```

```
$ touch new_file

$ git status

On branch my_branch
Untracked files:
  (use "git add <file>..." to include in what will be committed)

    new_file

nothing added to commit but untracked files present (use "git add" to track)

$ git add new_file
On branch my_branch
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

    new file:   new_file

$ touch new_file2

$ git status
On branch my_branch
Changes to be committed:
  (use "git reset HEAD <file>..." to unstage)

    new file:   new_file

Untracked files:
  (use "git add <file>..." to include in what will be committed)

    new_file2
```

```
$ git commit -m "commit message"
```

```
$ git commit -m "tutorial commit"
[my_branch b16ea6a] tutorial commit
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 new_file
(python3) macui-MacBook-Air-2:slipp_tbd_todo mac$ git status
On branch my_branch
Untracked files:
  (use "git add <file>..." to include in what will be committed)

    new_file2

nothing added to commit but untracked files present (use "git add" to track)
```

```
$ git push
```

3 .

.

"SlippTodo-1" .

.

- : "SlippTodo-1_TodoManager_ "
- : "[SlippTodo-1] TodoMananger "

pull request .

- "2018/01/24 [SlippTodo-1] TodoManager "

Test .

- TodoManagerTest

, .

- TodoManagerTest_SlippTodo1_bug_fix

.

- public void ____ () { ... }

Spring Mock

, Mock .

TodoManager TodoRepository

TodoManagerTest MockTodoRepository TodoRepository .

Mock .

```
// TodoManager.java
@Component
public class TodoManager {

    @Autowired
    private TodoRepository todoRepository;

    public Todo create(Todo todo) {
        ...
    }
}

// TodoRepository.java
@Component
public class TodoRepository {

    public Todo save(Todo todo) { return null; }
}
```

```
// TodoManagerTest.java
@RunWith(SpringJUnit4ClassRunner.class)
@ContextConfiguration(classes = { AppConfig.class, TodoManagerTest.MockBeanConfig.class } )
public class TodoManagerTest {

    @Autowired
    private TodoManager todoManager;

    @Configurable
    public static class MockBeanConfig {
        @Bean
        @Primary
        public TodoRepository todoRepository() {
            return new MockTodoRepository();
        }
    }

    @Test
    public void _ () {
        ...
    }

    private static class MockTodoRepository extends TodoRepository {
        @Override
        public Todo save(Todo todo) {
            ....
        }
    }
}
```

- TodoManager TodoRepository @Component Spring Bean
- mock
 - TestCase @Configurable MockBeanConfig

- MockBeanConfig public TodoRepository todoRepository()
- todoRepository @Bean @Primary
- TodoManagerTest
 - MockBeanConfig @ContextConfiguration(classes = { AppConfig.class, TodoManagerTest.MockBeanConfig.class })
- MockTodoRepository
 - TodoManagerTest TodoRepository MockTodoRepository static
 -

.

TodoManagerTest_resources .

```
test/
  java/
    net/slipp/todo_list
      TodoManagerTest.java
      TodoManagerTest_resources/
        some_file.txt
```

test/java/resources .

pull request .

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, .

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