Test Case

Class under test: BorrowInfoController

# Check overdue unreturned book:

* Input: username (String).
* Output: result (boolean).

## Black box test:

|  |  |  |
| --- | --- | --- |
| Test Case | 1 | 2 |
| Overdue unreturned book | Not Exist | Exist |
| Output | true | false |

@Test  
public void checkUnreturnedBookTestCase1() throws Exception {  
 *assertEquals*(true, borrowInfoController.checkUnreturnedBook("rt1918"));  
}  
  
@Test  
public void checkUnreturnedBookTestCase2() throws Exception {  
 *assertEquals*(false, borrowInfoController.checkUnreturnedBook("huynq123"));  
}

## White box test:

* C0 100% Coverage test:

@Test  
public void checkUnreturnedBookTestCase1() throws Exception {  
 *assertEquals*(true, borrowInfoController.checkUnreturnedBook("rt1918"));  
}

* C1 100% Coverage test:

@Test  
public void checkUnreturnedBookTestCase1() throws Exception {  
 *assertEquals*(true, borrowInfoController.checkUnreturnedBook("rt1918"));  
}  
  
@Test  
public void checkUnreturnedBookTestCase2() throws Exception {  
 *assertEquals*(false, borrowInfoController.checkUnreturnedBook("huynq123"));  
}

# Check number of books lent:

* Input: username (String).
* Output: result (boolean).

## Black box test:

|  |  |  |
| --- | --- | --- |
| Test Case | 1 | 2 |
| Number of books lent | < 5 | >= 5 |
| Output | true | false |

@Test  
public void checkLentNumberTestCase1() throws Exception {  
 *assertEquals*(true, borrowInfoController.checkLentNumber("customer2"));  
}  
  
@Test  
public void checkLentNumberTestCase2() throws Exception {  
 *assertEquals*(false, borrowInfoController.checkLentNumber("rt1918"));  
}

## White box test:

* C0 100% Coverage test:

@Test  
public void checkLentNumberTestCase1() throws Exception {  
 *assertEquals*(true, borrowInfoController.checkLentNumber("customer2"));  
}

* C1 100% Coverage test:

@Test  
public void checkLentNumberTestCase1() throws Exception {  
 *assertEquals*(true, borrowInfoController.checkLentNumber("customer2"));  
}  
  
@Test  
public void checkLentNumberTestCase2() throws Exception {  
 *assertEquals*(false, borrowInfoController.checkLentNumber("rt1918"));  
}