

User Stories And Acceptance Criteria

This document contains all the user stories that attendees will develop as part of the TDD training. Please read the problem domain in the problem-statement.md file.

Prerequisite

To complete this training you would need following on your machine:

1. Java 7
2. Eclipse for Java Developers
3. Git command-line(nice to have)
4. Internet (nice to have)
5. JUnit, hamcrest, and mockito jars in local user home

Sprint Zero -- Setting up project infrastructure

1. Create a Java 7 maven project with required dependencies.
2. Add a simple test case that tests nothing to make sure classpath is correctly resolved.
3. Commit this to Git master

User Story 1

As a customer
I want the ability to add one or more books to the shopping cart
So that I can checkout them at their actual base price.

Acceptance criteria

Given that a customer has a cart with one book (Effective Java @ \$40)
When customer tries to checkout

Then checkout amount is \$40

Given that a customer has a cart with three books (Effective Java @ \$40, Clean Code @ \$60, Head First Java @ \$30)
When customer tries to checkout
Then checkout amount is \$130

Given that a customer has empty cart
When customer tries to checkout
Then customer should get an error message 'You can't checkout an empty cart!!'.

User Story 2

As a customer
I want the ability to add multiple copies of a book to the shopping cart
So that I can do bulk checkout of a book

Acceptance criteria

Given that a customer has a cart with 3 copies of "Effective Java" @ \$40
When customer tries to checkout
Then checkout amount is \$120

Given that a customer has a cart with 2 copies of Effective Java @ \$40, 3 copies Clean Code @ \$60, 4 copies of Head First Java @ \$30
When customer tries to checkout
Then checkout amount is \$380

Given that customer has a cart with one copy of "Effective Java" @ \$40
When customer adds another two copies of "Effective Java", and then checkout
Then checkout amount is \$ 120

--- Introduction of Mocks----

User Story 3

As a store supervisor

I want the ability to add book(s) to the inventory
So that customers can only add books to the cart that are in the inventory

Acceptance criteria

Given that inventory does not contain "Effective Java" book
When customer add "Effective Java" book to the cart
Then customer is shown an error message "Sorry, 'Effective Java' not in stock!!"

Given that supervisor has two books ("Effective Java" and "Clean Code")
When supervisor add books to the inventory
Then customer can checkout them

User Story 4

As a user
I want to be notified when I add more copies than available in inventory

Acceptance criteria

Given that inventory contains 2 copies of "Effective Java" book
When customer add 5 copies of "Effective Java" book to the cart
Then customer is shown an error message "There are not enough copies of 'Effective Java' in the inventory."

User Story 5

As a marketing manager
I want to create flat percentage discount coupons
So that users can apply them during checkout and get discounted checkout price

A discount coupon has a coupon code which identifies it uniquely. Each coupon is valid for a time period.

Acceptance criteria

Given that a customer has a valid flat percentage discount coupon
When customer applies the coupon during checkout
Then checkout amount should be reduced by the flat percentage discount

*For example: If a customer checkout 2 books each worth \$ 40 and 3 books each worth 55 and applies a discount coupon of 20% then checkout amount should be
 $(2*40 + 3*55) - (2*40 + 3*55)*0.2 == \$196*$

Given that a customer has expired discount coupon
When customer applies the coupon during checkout
Then customer is shown an error message `Sorry, the coupon code has expired`

Given that a customer has invalid discount coupon
When customer applies the coupon during checkout
Then customer is shown an error message `Sorry, the coupon code you entered does not exist`

User Story 6

As a marketing manager
I want to create flat cash discount coupons
So that users can apply them during checkout and get discounted checkout price

Acceptance criteria

Given that a customer has a valid flat cash discount coupon
When customer applies the coupon during checkout
Then checkout amount should be reduced by the discount cash coupon amount

*For example: If a customer checkout 2 books each worth \$ 40 and 3 books each worth \$ 55 and applies a discount coupon of \$ 20 then checkout amount should be
 $(2*40 + 3*55) - 20 == \$225*$

Given that a customer has valid discount coupon
When customer uses discount coupon on the checkout amount and the amount after discount coupon is less than 60% of the actual checkout

price
Then error message 'This coupon is not applicable for this checkout amount.'

Given that a customer has expired discount coupon
When customer applies the coupon during checkout
Then customer is shown an error message `Sorry, the coupon code has expired`

Given that a customer has invalid discount coupon
When customer applies the coupon during checkout
Then customer is shown an error message `Sorry, the coupon code you entered does not exist`

Given that a customer has a discount coupon applicable in future
When customer applies the coupon during checkout
Then customer is shown an error message `Sorry, the coupon code is not applicable`

Story 7

As a marketing manager
I want to create discount(cash or percentage) coupons applicable for specific book categories
So that users can apply them during checkout and get discounted checkout price

Acceptance criteria

Given that a customer has valid flat percentage discount coupon applicable to DevOps and Java categories
When customer applies discount coupon to cart with 5 books, and out of 5 books 2 DevOps and 1 Java, 2 JavaScript
Then checkout amount should be reduced by the discount cash coupon amount

****For example: 5 books -- 2 Java \$20 and \$30, 1 DevOps \$50 , 2 JavaScript \$10 and \$30
Discount coupon 10%
then total checkout amount = (2*40 + 1*50 + 1*10 + 1*30) - 0.1*(2*40 + 1*50) == 170 - 13 = 157

Given that a customer has valid flat cash discount coupon applicable to DevOps and Java categories

When customer applies discount coupon to cart with 5 books -- 2

DevOps, 1 Java, and 2 JavaScript

Then checkout amount should be reduced by the discount cash coupon amount

****For example: 5 books -- 2 Java \$20 and \$30, 1 DevOps \$50 , 2 JavaScript \$10 and \$25**

Discount coupon \$50

then total checkout amount = $(2*20 + 1*50 + 1*10 + 1*25) - 50 == \75

Given that a customer has valid flat cash/percentage discount coupon applicable to Scala categories

When customer applies discount coupon to cart with 5 books -- 2

DevOps, 1 Java, and 2 JavaScript

Then checkout amount should be reduced by the discount cash coupon amount

****For example: 5 books -- 2 Java \$20 and \$30, 1 DevOps \$50 , 2 JavaScript \$10 and \$25**

Discount coupon \$50

then total checkout amount = $(2*20 + 1*50 + 1*10 + 1*25) == \125
