PO responsible for Profitability.

SM responsible for Cycle time and Productivity.

Velocity

Predictive: Fixed cost, Fixed Time and Fixed scope

PO is 10 user stories.

Java: UT is Junit. TestNG?

Web application: Selenium. WinRunner?

Lean: After WWII

In USA, Car manufacturers have

1. Huge factories
2. Volume high

In Japan, we will use “Lean manufacturing”

1. Small factories
2. Volume low

Advantages:

1. Quality is higher.
2. Customization.

Testing:

1. Detect defects. Predictive. Inefficient and costly.
2. Prevent defects. Agile. Efficient and Cheaper.

Toyota

## Web Shopping Application

US1: As a customer, I should be able to search for products, so that I buy my preferred item.

Test1: Given an inventory of laptop, SD Card and hard disk, When I search for laptop, Then I should see only the laptops in inventory.

US2: As a supplier, I should be able to list/un-list my products, so that I can sell my inventory.

Test1: Given a supplier with a new mobile, when he wants to sell it, then he should be able to list it so that customers can buy the same.

Test2: Given a supplier whose mobile inventory is exhausted, when he wants to un-list the mobile, Then the customers should never see that mobile for purchase.

US3: As an Accounts manager, I should be able to check GST paid/received, so that GoI rules are met with.

Test1: Given a laptop of Rs 1,00,000 with GST 18%; when the sale is made, then Rs 18,000 GST should be paid to GoI or credited for supplier.

US4: As a customer, I should be able to save my favourite items, so that I can easily go back to them and purchase them later.

Test1: Given as a customer viewing a Dell Laptop, when he clicks on the "favourite" button next to the product listed, then it should be added to his favourites.

US5: As a customer, I should be able to sort searched items on price, so that I can buy as per my budget.

Test1: Given a list of mobile phones worth Rs 10,000, Rs 12,000 and Rs 8,000; when I sort on price, then I should see the mobile phones in the order of Rs 8,000, Rs 10,000 and Rs 12,000.

Test2: Given a customer viewing hard-disks, when he filters this price range from Rs 1000 to Rs 2,000, then he should be able to see only the hard-disks in this range.

US6: As a Customer, I should be able to cancel my order in 5 to 10 minutes after ordering, so that I can reverse my wrong decision and I should be refunded within 1 working day.

US7: As a Admin, I should be able to view products purchased, so that I can generate sales report.

US8: As a customer, I should be able to pay by credit card/Debit card/UPI, so that I have flexibility.

US9: As a book buyer, I should be able to search the books from inventory, so that I can buy them electronically.

Bugs

A - 20% of their time on fixing. If their velocity is 100SPs, they will take 80SPs of US.

B – User stories

C – User stories

Military: When you are in hostile territory and being approached, Then don’t shoot that person. Don’t allow the person to come near you.

Code ownership:

1. Strong:
2. Loose:
3. Collective:

Assignment: Write 5 user stories for Banking application. Write functional tests for each user story.

A team has velocity of 100SPs. Occasionally, they will take 80SPs user stories; 20SPs are slack.