

# Testing Concepts for V&V Automation Testing Lab Book

## Document Revision History

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Date	Revision No.	Author	Summary of Changes
12/8/09	1	Priya Rane	Revamp
06/09/2011	2	Hema G	Revamp
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## Lab 1. Software Testing Basics

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<b>Goals</b>	<ul style="list-style-type: none"><li>• Understand the process of creating test cases.</li><li>• Learn to apply basic techniques for writing test cases.</li><li>• Learn to prepare finite test cases</li></ul>
<b>Time</b>	90 Minutes

### 1.1 Validate Date field

Validate Date Field using Black Box Testing Techniques. Format of Date field is dd/mm/yyyy

### 1.2 Validate Command Line utility

Validate Command Line utility - 'MAX'.

The utility displays the maximum of the 2 specified Integers. Please note down any assumptions that you make.

E.g. MAX 2 3

Steps to run Max command line utility

1. create a folder demo on E drive
2. Copy max.exe file in to demo folder
3. Click on start > run. Type **cmd**
4. Type "**E:**"
5. Type "**cd demo**"

Use following command to run max utility

```
E:\demo> max 25 34
E:\demo> max 25 b
E:\demo> max a 34
E:\demo> max 25.45 34.67
```

### 1.3 Validate Phone Number field.

Format of the number is

Country Code (10 to 999) City Code (10 to 99999) Phone Number (1000000 to 99999999)

### 1.4 Validate Password Field

Write the test case for password field. Password should be the combination of Alphabets, numeric values and special characters. It should contain one upper case letter, at least one digit and at least one special character. The length of the password should be of minimum 8 characters.

## Lab 2. Creating Test Cases

<b>Goals</b>	<ul style="list-style-type: none"><li>• Read “Product Enquiry Form Instructions” before starting the assignment.</li><li>• Develop creative test cases for the New Bike Enquiry Form</li></ul>
<b>Time</b>	120 minutes

**Note:** In this lab use test case design techniques for designing creative test cases based on the requirements given below.

Participant are required to write at least 5 positive test cases, 10 Negative test cases, 5 Basic tests cases. This is minimum expectation.

### 2.1 Case Study

A customer can enquire about a new vehicle models by filling the “Product Enquiry Form” by visiting dealer’s website. This is useful for those customers who wish to upgrade their existing vehicle to a new one or wants to purchase a new vehicle. This website also facilitates a customer to book for a test ride through product enquiry form.

### 2.2 Rules: Product Enquiry Form

1. The fields marked as \* are mandatory fields on the form
2. Customer Name(firstname & lastname) should accept only characters
3. The mobile number should accept only numbers and it should contain only 10 digits
4. The telephone number field should accept only numbers and it should contain only 10 digits
5. The Email field should accept only valid email address e.g. **Dayanand.patil@domain.com**
6. The Vehicle Model should accept only following values
  - a. Pleasure
  - b. Karizma
  - c. Impulse
  - d. Splendor
  - e. Splendor+
7. Select the state from the state drop down box. This will automatically populate the district based on the selected state in a new drop down box. Refer the below given table for the valid values of states and district combination.

State	District
	Sangli

Maharashtra	Kolhapur
	Pune
Tamilnadu	Chennai
	Coimbatore
	Kancheepuram
Gujarat	Anand
	Dohad
	Rajkot

8. Select dealer's state from the Dealer State drop down box. This will automatically populate the Dealer drop down box. Refer the below given table for the valid values of Dealer's States and Dealers combination.

Dealer State	Dealer
Maharashtra	M/s Ghatge Patil auto and firm,Sangli
	M/s Unique Automobiles(I),Kolhapur
	M/s Lakshya Motors, Pune
Tamilnadu	M/s Mohan Automobiles, Chennai
	M/s Suguna Automobiles, Coimbatore
	M/s Anand Automobiles,Kancheepuram
Gujarat	M/s Prakash Motors,Anand
	M/s Shree Laxminarayan Motors,Doh0d
	M/s Aan Automobiles,Rajkot

9. The Brief about enquire field should accept maximum 100 characters max.

### Product Enquiry & Book A Test Ride

Customer Name *	<input type="text" value="FirstName"/>	<input type="text" value="LastName"/>
Moblie No. *	<input type="text"/>	Tel. <input type="text"/>
Email	<input type="text"/>	
Vehicle Model *	<input type="text" value="Select"/>	
State *	<input type="text" value="Select State"/>	
District *	<input type="text" value="Select District"/>	
City *	<input type="text"/>	
Existing Vechicle *	<input type="text" value="Select Vehicle"/>	
When would you like a Test Ride	<input type="text"/>	
Dealer State *	<input type="text" value="Select State"/>	
Dealer *	<input type="text" value="Select Town"/>	
Brief About Enquiry	<input type="text"/>	

10. The website will validate the data for its correctness.
11. The customer need to fill the required details and should click on the Submit button to submit the enquiry with the website.

## Lab 3. Creating Test Cases

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<b>Goals</b>	<ul style="list-style-type: none"><li>• Read 'BOOKING INSTRUCTIONS' before starting the assignment.</li><li>• Understand the application and develop creative test cases.</li></ul>
<b>Time</b>	120 minutes

### 3.1: Software Testing Case Study. 'ONLINE CONFERENCE ROOM BOOKING' on

#### Intranet

**Note :** Please do not try using the system available on intranet. This is just a case study.

#### Booking Instructions

1. Invoke intranet by typing the URL <https://intranet.confBook.com>
2. Login using id and password
3. Intranet home page is displayed
4. Select Employee Corner and Click on Conference Room Booking option
5. 'My Bookings' option on the Conference Menu Page displays the View / Cancel Booking Page.
6. 'New Booking' option on the Conference Menu Page displays the Conference Booking Page.

#### Making a new booking:

1. If you belong to a Non-GE Business Unit, you can book conference rooms only in Non-GE areas. However if you belong to a GE Business unit, you can book conference rooms at any location.
2. The employee Email id field is automatically filled with the email id of the person logged in.
3. Select the location from the location drop down box. This will automatically populate the sub-locations under the selected location in a new drop down box.
4. Select the sub-location from the sub-location drop down box. This will automatically populate the date drop down boxes.
5. Select the month from the month drop down box. Booking of conference rooms can be done only one month in advance. The date drop down boxes will be appropriately populated for this.
6. Select the date from the date drop down box.
7. Select the year from the year drop down box.
8. Upon selecting a valid location, sub location and date the complete Conference Room booking form is displayed
9. The rooms and devices available at the selected sub-location will be displayed in tabular format.

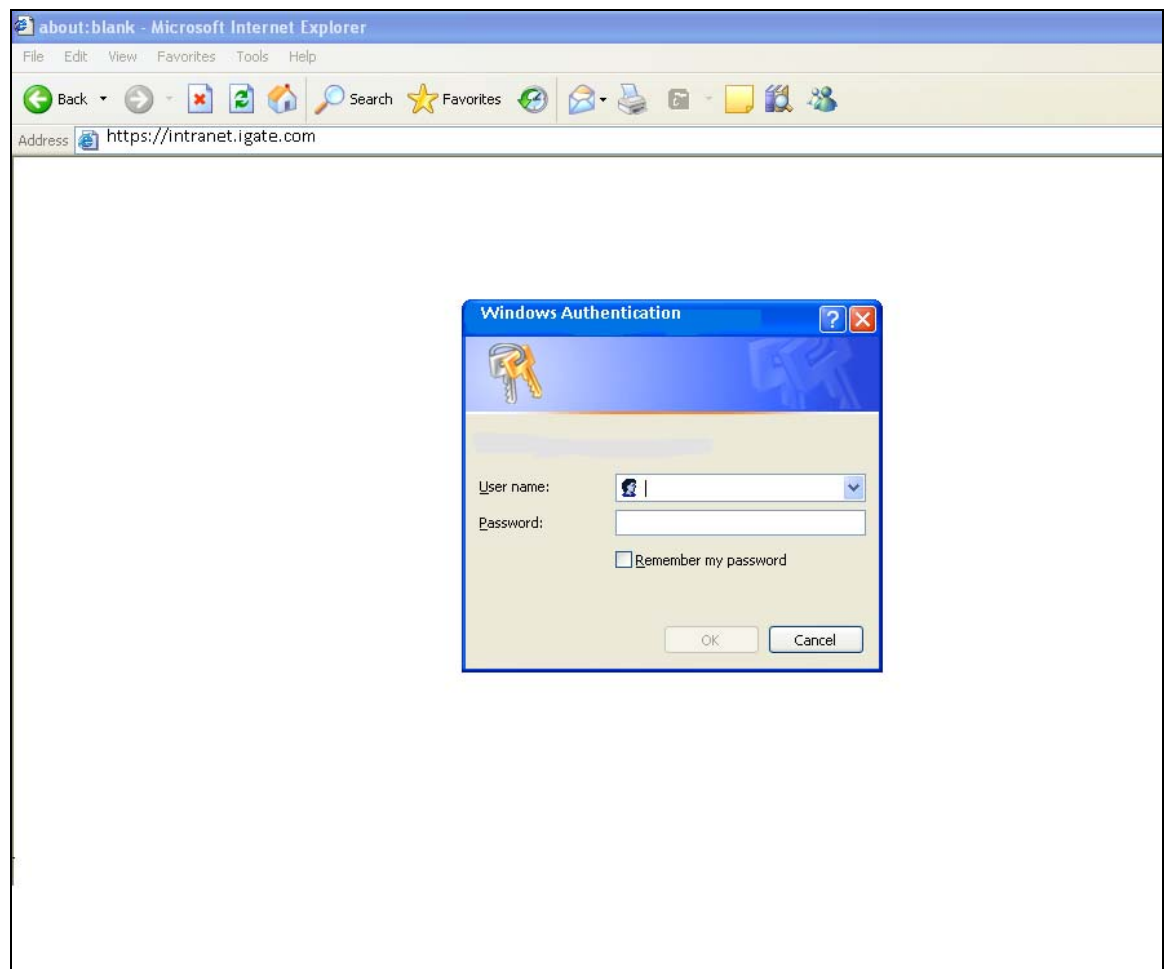


10. Enter your extension number and email id if it is not displayed correctly.
11. Select the room from the room drop down box.
12. Select the time span for which you want to book the conference room.
13. Select the communication and visual device if required.
14. Clicking 'Submit' button would validate whether the room and devices requested are available in the time span specified.
15. If either the room or devices requested are not available in the time span selected, an appropriate error message will be displayed else the booking will be registered. An Email will be sent to you as a confirmation for the same.

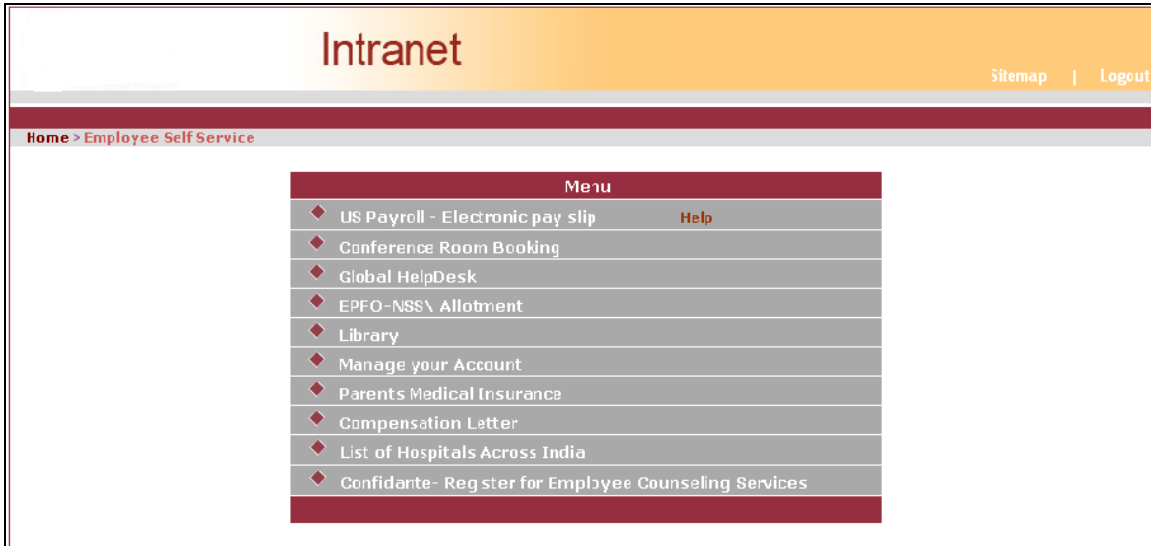
**Viewing / Cancellation of Bookings:**

1. All the booking made by you will be displayed. Bookings of current and future dates will only be displayed.
2. Select the bookings you wish to delete
3. Click the 'Delete' button to delete the selected bookings.

**Invoke <https://intranet.confBook.com>**



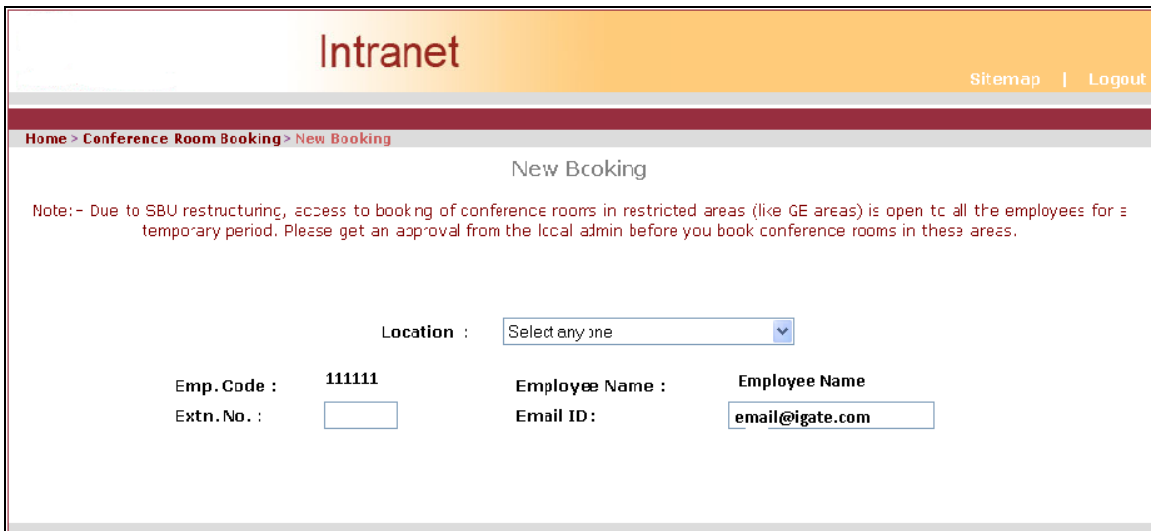
**Intranet home → Employee Corner → Conference Room Booking**



The screenshot shows the 'Intranet' header with 'Sitemap' and 'Logout' links. Below the header, the breadcrumb trail is 'Home > Employee Self Service'. A 'Menu' table lists various services available to employees.

Menu	
◆ US Payroll - Electronic pay slip	<a href="#">Help</a>
◆ Conference Room Booking	
◆ Global HelpDesk	
◆ EPFO-NSSA Allotment	
◆ Library	
◆ Manage your Account	
◆ Parents Medical Insurance	
◆ Compensation Letter	
◆ List of Hospitals Across India	
◆ Confidante- Register for Employee Counseling Services	

**Conference Room Booking → New Booking**



The screenshot shows the 'Intranet' header with 'Sitemap' and 'Logout' links. Below the header, the breadcrumb trail is 'Home > Conference Room Booking > New Booking'. The page title is 'New Booking'. A note provides information about access to booking in restricted areas. Below the note, there is a form with fields for 'Location', 'Emp. Code', 'Extn.No.', 'Employee Name', and 'Email ID'.

Note:- Due to SBU restructuring, access to booking of conference rooms in restricted areas (like GE areas) is open to all the employees for a temporary period. Please get an approval from the local admin before you book conference rooms in these areas.

Location :

Emp. Code :

Extn.No. :

Employee Name :

Email ID :

**HOME→Conference Room Booking → New Booking**

**Intranet**

[Sitemap](#) | [Logout](#)

[Home](#) > [Conference Room Booking](#) > [New Booking](#)

### New Booking

Note:- Due to SBU restructuring, access to booking of conference rooms in restricted areas (like GE areas) is open to all the employees for a temporary period. Please get an approval from the local admin before you book conference rooms in these areas.

**Location :**

**Sub Location :**

**Date (mm/dd/yyyy) :**  /  /

**AVAILABLE ROOMS**

Time From	Time To	Description
00:00:01	23:59:59	Main conference room

**AVAILABLE DEVICES**

Time From	Time To	Spider	Speaker	OHP	LCD/Video Projector
00:00:01	23:59:59	1	1	1	1

**Emp. Code :**   
**Extn. No. :**

**Employee Name :**   
**Email ID :**

**Select Room :**

**Description of the meeting :**

**Time From (hh:mm):**  :

**Time To (hh:mm):**  :

**Communication Device :**

Spider Phone ☐

Speaker Phone ☐

None ☒

**Visual Device :**

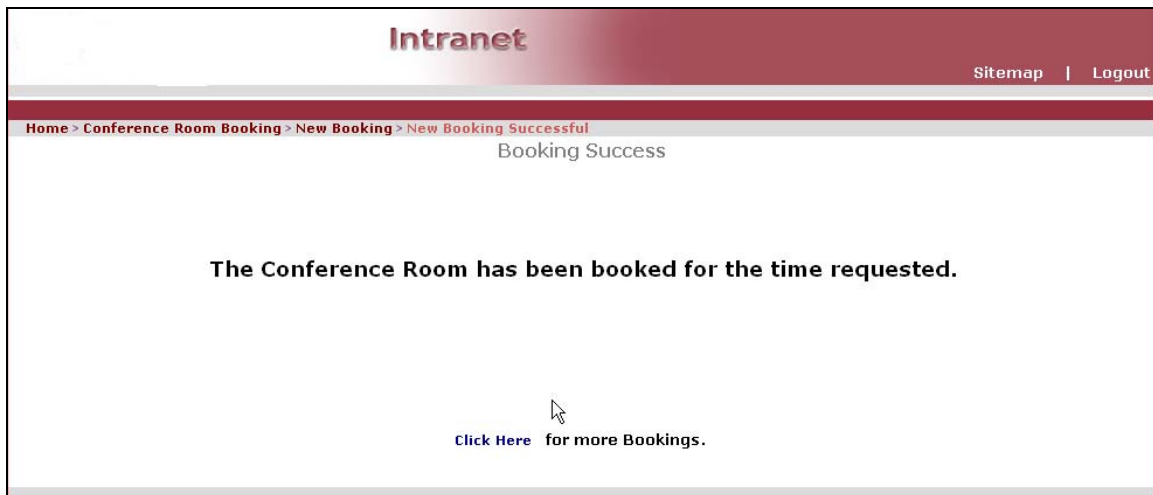
OHP ☐

LCD/Video Projector ☐

None ☒

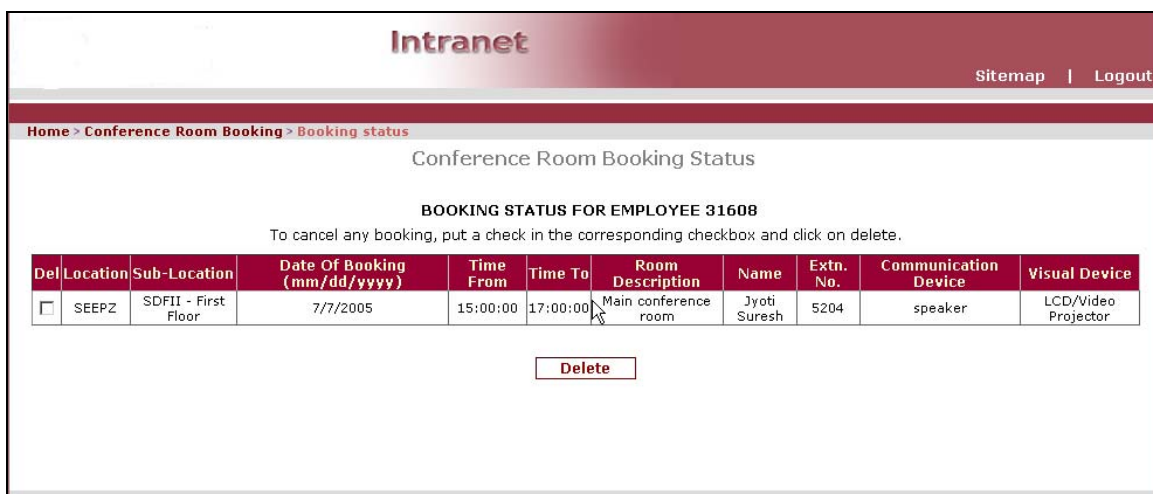
If booking is successful, the following screen is displayed

HOME →Conference Room Booking → New Booking



The booking status is also shown under My Bookings as shown below:-

HOME →Conference Room Booking → Booking Status



## Stretched Assignments

### 4.1 Customer Complaint Form

This is a customer complaint form for the bank customers, those who want to raise the bank related complaints.

### 4.2 Instructions

Write the test case for this Customer Complaint form, based on the requirements given below.

While the customer clicking on the submit button, if all are correct, the details should be registered in the database and generated complaint number should be displayed on the screen



The screenshot shows a web browser displaying the "CUSTOMER COMPLAINT FORM". At the top right is a small video feed of a smiling woman. Below the header, a message states: "You will receive a response shortly by SMS or E-mail. To know the status of your request call on our Toll Free number 1800112211 or 18004...". The form itself is a table with the following fields:

Customer Type *	Existing SBI customer ▼
Account Number *	<input type="text"/>
Name Of Complainant *	<input type="text"/>
Branch Code (If other than Home Branch)	<input type="text"/> <a href="#">Branch Locator</a>
Mobile number *	<input type="text"/>
Telephone No.	<input type="text"/>
E-mail *	<input type="text"/>
Category Of Complaints	--Select-- ▼
Products & Services	--Select-- ▼ 
Nature Of complaint	--Select-- ▼
Please Give brief details of your complaint (Max 200 Chars) *	<input type="text"/>
Please enter the String Shown in Image *	 

At the bottom of the form are two buttons: "Submit" and "Reset".

### 4.3 Rules

- **Customer Type** : Existing SBI customer
- **Account Number** : Should be 11 digits
- **Branch Code** : should be 4 digits

- **Nature of Complaint** will be displayed based on the selection of Products & Services and Products & services will be displayed based on the selection of Category of Complaints. Refer the below table.

Category of Complaints	Products & Services	Nature of Complaint
<b>General Banking</b>	Branch Related	<ul style="list-style-type: none"> <li>• No Response to queries</li> <li>• Single Windows not doing all transactions</li> </ul>
	Pass Book Related	<ul style="list-style-type: none"> <li>• Error in passbook entries</li> <li>• Passbook not issued/Delayed</li> </ul>
<b>Deposits</b>	Opening of Accounts	<ul style="list-style-type: none"> <li>• Nominee Updation Not done</li> <li>• Delay in opening Accounts</li> </ul>
	Transfer of accounts	<ul style="list-style-type: none"> <li>• Delay in transfer of fixed Deposits</li> <li>• Others</li> </ul>
<b>Internet Banking</b>	Pre Login Complaints	<ul style="list-style-type: none"> <li>• Username/Password provided by branch not functional</li> <li>• Transaction rights not given</li> </ul>
	Online Bill Payment	<ul style="list-style-type: none"> <li>• Unable to view Bills</li> <li>• Unable to view payment History</li> </ul>

- Details of complaint: Should be of 200 characters max.