

# JUDICIARY INFORMATION SYSTEM (JIS)

## *TEST SUITE DESIGN*

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## **1. Objective :**

The primary objective of testing this application is to assure that the system meets the full requirements , including quality requirements (AKA: Non-Functional Requirements) and fit metrics for each quality requirement and satisfies the use case scenarios and maintain the quality of the product.

The secondary objective of testing this application is to identify and expose all issues and associated risks, communicate all known issues and ensures that all issues are addressed in an appropriate matter before release.

## **2. Testing Methodology :**

- This document incorporates the UNIT TESTING method i.e. both the BLACK-BOX and the WHITE-BOX approaches towards Test Suite Design of the software 'JIS' . In essence, we must therefore test each class in isolation, and each functionality in isolation using white box and black box techniques. This document shows the use cases, their description, test inputs and the Black-Box and White-Box outputs. If there does not exist both type of outputs, only the appropriate output is displayed.
- Regression Testing was done during coding the software by re-running existing tests against the modified code to determine whether the changes break anything that worked prior to the change and by writing new tests where necessary. Adequate coverage without wasting time was the primary consideration during conducting regression tests.

## **3. Features to be tested :**

### ***Registrar :***

- User Sign In
- Register New Case
- Display Dates
- View Case Status
- Case Details
- Edit Accounts
- Update Case Summary
- Close Case

### ***Judge :***

- User Sign In
- View Past Cases
- Edit Password

### ***Lawyer :***

- User Sign In
- View Past Cases
- View Charges
- Pay Charges
- Edit Password

## **4. Features Not to be tested :**

The following features are not to be tested because of the low risk, and are therefore considered stable.

- Clear Console
- Log Out

## 5. Information Stored Initially :

### **Registrar :**

- Username : admin
- Password : user12

### **Judge :**

- Username : jack
- Password : pass

### **Lawyer :**

- Username : jill
- Password : pass
- Charge : 0

The tables 'cases' is initially empty. The 'counter' table is initialized as

count
0

The 'loginR' table is initialized as

username	password
admin	user12

The 'loginJ' table is initialized as

username	password
jack	pass

The 'loginL' table is initialized as

username	password	charge
jill	pass	0

## 6. Test Cases :

### **TEST #1:**

**Description :** User Sign In

**Input :** The usertype, username and password of the person using the software

Usertype : Registrar/ Judge/ Lawyer

Username : admin/ jack/ jill

Password : user12/ pass/ pass

**Output :**

Home page of the user opens depending on the input.

**TEST #2:****Description :** User Sign In**Input :** The usertype, username and password of the person using the software

Usertype : Registrar/ Judge/ Lawyer

Username : (empty)

Password : user12/ pass/ pass

**Output :**

A label with an error message saying “ The username or password you entered is incorrect” is displayed.  
 Same is the error when the usertype or password is entered incorrectly or any of the fields is left blank.

**TEST #3:****Description :** Register New Case**Input :** Various details about the new case like Defendant's Details, Crime Details, Dates Details, Person's Names, Case Status and Case Summary.

Defendant's Name : Atul

Defendant's Address : D-402

..

..

Case Summary : Finished Soon

**Output :**

A confirmatory message is displayed to the Registrar saying “New Case Registered”.

The “cases” table of “JIS” database is updated and the case details are stored in the database as follows

CIN	defendant Name	defendant Address	crime Type	crime Date	crime Location	officer Name	arrest Date	judge Name	lawyer Name
3	Atul	D-402	theft	11/11/2011	KGP	Animesh	12/11/2011	Abhishek	Reddy

....	prosecutor Name	starting Date	judgement Date	case Status	case Summary	hearing Date
	Amit	15/11/2011	18/11/2011	Pending	Finished Soon	13/11/2011

**TEST #4:****Description :** Register New Case**Input :** Various details about the new case like Defendant's Details, Crime Details, Dates Details, Person's Names, Case Status and Case Summary.

Defendant's Name : (empty)

Defendant's Address : D-402

..

..

Case Summary : Finished Soon

**Output :**

A JOptionPane with an error message saying “ Please enter the complete information” is displayed. Same is the error when any other field is left empty and no change in the database is made.

**TEST #5:**

**Description :** Display Dates

**Input :** User Action (Button Click)

**Output :**

All the dates on which hearing can be scheduled are displayed in the JIS Console.

**TEST #6:**

**Description :** View Case Status

**Input :** CIN of the case and User Action (Button Click)

CIN Field : 1

**Output :**

The status of the case whose CIN is given is displayed in the JIS Console.

**TEST #7:**

**Description :** View Case Status

**Input :** CIN of the case and User Action (Button Click)

CIN Field : (empty)

**Output :**

A JOptionPane with an error message saying “Enter a CIN” is displayed.

**TEST #8:**

**Description :** Update Case Summary

**Input :** CIN of the case and User Action (Button Click)

CIN Field : 1

**Output :**

The status of the case whose CIN is given is displayed in the JIS Console.

**TEST #9:**

**Description :** Update Case Summary

**Input :** CIN of the case and User Action (Button Click)

CIN Field : (empty)

**Output :**

A JOptionPane with an error message saying “Enter a CIN” is displayed.

**TEST #10:**

**Description :** Case Details

**Input :** Selection of one of the options i.e. Resolved Cases, Pending Cases or Upcoming Cases

Case Details : Resolved Cases/Pending Cases/Upcoming Cases

**Output :**

Case Details depending on the input is displayed in the JIS Console.

**TEST #11:**

**Description :** Case Details

**Input :** Selection of one of the options i.e. Resolved Cases, Pending Cases or Upcoming Cases

Case Details : (empty)

**Output :**

A JOptionPane with an error message saying “Select an option from Case Details” is displayed.

**TEST #12:**

**Description :** Edit Accounts

**Input :** Selection of one of the options i.e. Add Account, Delete Account

Edit Accounts : Add Account/Delete Account

**Output :**

Further options are displayed for creating/deleting judge's/lawyer's account.

The “loginJ” table of “JIS” database is updated in the database as follows

username	password
jack	pass
input	input

The “loginL” table of “JIS” database is updated in the database as follows

username	password	charge
jill	pass	0
input	input	0

**TEST #13:**

**Description :** Edit Accounts

**Input :** Selection of one of the options i.e. Add Account, Delete Account

Edit Accounts : (empty)

**Output :**

A JOptionPane with an error message saying “Select an option from Edit Accounts” is displayed and no change in the database is made.

**TEST #14:**

**Description :** Close Case

**Input :** CIN of the case and User Action (Button Click)

CIN Field : 1

**Output :**

If the case was not earlier closed, then a confirmatory message saying “Case Closed” is displayed.

**TEST #15:**

**Description :** Close Case

**Input :** CIN of the case and User Action (Button Click)

CIN Field : 2

**Output :**

If the case was already closed, then an error message saying “Case Already Closed” is displayed and no change in the database is made.

**TEST #16:**

**Description :** Close Case

**Input :** CIN of the case and User Action (Button Click)

CIN Field : (empty)

**Output :**

A JOptionPane with an error message saying “Enter a CIN” is displayed.

**TEST #17:**

**Description :** View Past Cases

**Input :** CIN / Case Status / Crime Type and User Action (Button Click)

Info Field : CIN / Case Status / Crime Type

**Output :**

Case Details depending upon the input is displayed in the JIS Console.

**TEST #18:**

**Description :** View Past Cases

**Input :** CIN / Case Status / Crime Type and User Action (Button Click)

Info Field : (empty)

**Output :**

A JOptionPane with an error message saying “Enter a CIN/Case Status/Crime Type” is displayed. Same is the error message when any input other than the specified options is entered.

**TEST #19:**

**Description :** Edit Password

**Input :** New Password

Input : newuser

**Output :**

A confirmatory message saying “Your password has been edited” is displayed.

The “loginJ” table in “JIS” database is updated as follows

username	password
jack	newuser

**TEST #20:**

**Description :** Edit Password

**Input :** New Password

Input : (empty)

**Output :**

A JOptionPane with an error message saying “Please enter a valid password” is displayed and no change in the database is made.

**TEST #21:**

**Description :** View Charges

**Input :** User Action (Button Click)

**Output :**

The account charges of the respective lawyer is displayed in the JIS Console.

**TEST #22:**

**Description :** Pay Charges

**Input :** User Action (Button Click)

**Output :**

A confirmatory message saying “Account Cleared” is displayed.

The table “loginL” in the “JIS” database is updated as follows

username	password	charge
jill	pass	0



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