

Table of Content	Page
1 TEST PLAN IDENTIFIER	3
JISS_1.0	3
2 REFERENCES	3
3 INTRODUCTION	3
4 TEST ITEMS (FUNCTIONS)	4
5 SOFTWARE RISK ISSUES	4
6 FEATURES TO BE TESTED	4
7 FEATURES NOT TO BE TESTED	5
8 APPROACH (STRATEGY)	5
Testing Levels :	5
Testing Tools	6
9 ITEM PASS/FAIL CRITERIA	6
10 SUSPENSION CRITERIA AND RESUMPTION REQUIREMENTS	6
11 TEST DELIVERABLES	6
12 REMAINING TEST TASKS	6
13 ENVIRONMENTAL NEEDS	7
14 PLANNING RISKS AND CONTINGENCIES	7
15 GLOSSARY	7

JISS TEST PLAN

1 TEST PLAN IDENTIFIER

JISS_1.0

2 REFERENCES

SRS document for JISS

3 INTRODUCTION

This document documents the test plan for the software JISS ,as specified in the SRS.It includes all the possible tests that need to be done to ensure the correctness and reliability of the software to be implemented. The software should pass all the tests before it can be delivered.

The project will have two levels of testing : Unit and Application testing.The details of the aforesaid are elaborated in the future sections.

4 TEST ITEMS (FUNCTIONS)

The following is the list of the items to be tested:

1. Lawyer:
 - a. QueryCase(CIN)
 - b. QueryCase(Keyword)
2. Judge
 - a. QueryCase(CIN)
 - b. QueryCase(Keyword)
3. Registrar
 - a. ViewResolvedCases()
 - b. ViewPendingCase()
 - c. ViewCasesUpcomingByDate(Date)
 - d. QueryCaseStatus(CIN)
 - e. AddUser(UserNonAdmin)
 - f. DeleteUser(username)
 - g. SearchVacantSlots(Date)
 - h. BookSlot(Case,Date,Slot)
 - i. AddCase(CourtCase)
 - j. EntryAdjournmentDetails(CIN,reason)
 - k. CloseCase(CIN)
 - l. RecordCaseSummary(CIN,summary)

5 SOFTWARE RISK ISSUES

1. Updation of Node and npm version: Sudden Updation of npm can cause problems like the node modules would then need to be reinstalled. However this problem mainly applies to maintenance phase. As there would be no problem in the deployed version as long as the hosting server recognizes the npm version used and deploys accordingly.
2. The Database should be kept safe. If any other external agent modifies the database or deletes it, this would be dangerous because all the data collected by JISS will be corrupted. The software may not function as expected then.
3. Login authentication must be verified and password should not be leaked (specially for registrar).

6 FEATURES TO BE TESTED

The following features are to be tested:-

1. (H) Successful Adding of UserNonAdmin (Lawyer/Judge) Accounts by the Registrar.
2. (H) Successful Deletion of UserNonAdmin (Lawyer/Judge) Accounts by the Registrar.
3. (M) Viewing free slots by date by Registrar
4. (M) Selecting a free slot from the viewed free slots and booking a slot for hearing successfully by Registrar
5. (M) Viewing pending cases by Registrar
6. (M) From the shown pending cases selecting a case and entering adjournment summary by Registrar
7. (M) If a case is being closed while entering its summary successfully closing the case and entering the case summary by Registrar
8. (M) Successfully viewing of previous cases by the judge by searching by :-
 - a. CIN
 - b. Keyword
9. (M) Successfully viewing the previous cases by the lawyer by searching by CIN and Keyword. In this case it should be checked that the system is charging some money to recover computation costs, and adding it successfully to the account of the lawyer.
10. (H) Successful login by the Any User (Admin/NonAdmin)
11. (H) Checking that protected pages cannot be accessed without authentication
12. (L) As per the instruction from the teachers, the front end user Interface are to be tested manually. In this regard the following features need to be tested:
 - a. The interface of the login page
 - b. The navigation bar interface.
 - c. The UI* of the Dashboards of the respective users
 - d. That All the use cases of each respective user are available.
 - e. All the use cases of each user can be easily used.

7 FEATURES NOT TO BE TESTED

Features not to be tested are :

1. Network access and security
2. Efficiency and reliability of hosting server
3. Functions of the Database like select and querying elements in SQLite implemented by flask-sqlalchemy..

8 APPROACH (STRATEGY)

1. Testing Levels :

The following testing levels are present :

- Unit Level
- System Level(Application Testing)

Unit Testing:Each of the functions as per Section 4 are to be tested

Application Testing(Scenarios to be tested) :

- Lawyer: Login of Lawyer→{Use Cases of Lawyer(Section 4)}
-->Logout
Additional Notes
 - Check if the lawyer is being charged correctly
 - If the requested cases are coming correctly
- Judge: Login of judge -->Search of a Case by CIN→{Use Cases of Registrar(Section 4)}-->Logout
Additional Notes
 - Check if requested cases are coming correctly
- Registrar :Login of Registrar→{All use cases of registrar(Section 4)}-->Logout of Registrar

2. Testing Tools

The testing tools used are:

1. Python : All tests will be done in python itself
2. Manual Testing : Manual testing for frontend

9 ITEM PASS/FAIL CRITERIA

The completion criteria for the plan are:

1. At Unit Level:
 - a. All Unit Tests Passes
2. At the System Level:
 - a. All Application Tests Passed

10 SUSPENSION CRITERIA AND RESUMPTION REQUIREMENTS

1. If Users and cases are not being added to the database correctly there is no point in checking other utilities like Slot Booking of Cases etc.

11 TEST DELIVERABLES

As a part of this test plan the following are delivered:

1. Unit Test Plan
2. Application Test Plan
3. Test Suite(with test cases and outputs)

12 REMAINING TEST TASKS

None as such.

13 ENVIRONMENTAL NEEDS

1. Python 3 installed(Maybe pytest could be used).
2. Test Data to be provided from database for backend testing and as manual inputs for User Interface testing

14 PLANNING RISKS AND CONTINGENCIES

1. If any feature is not passing the tests even after significant effort,it could be dropped if it is not a major feature or if it is in particular hampering the functioning of the other features.

15 GLOSSARY

UI : User Interface