*Test Plan Outline*

*Newspaper Agency*

*Automatic*

*System(NAAS)*

*Version 1.0 approved*

*Prepared by \_\_Coding\_ShinobisXX*

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1. TEST PLAN IDENTIFIER

*Newspaper\_agency\_automatic\_system\_1.0*

1. REFERENCES:

The following references have been used in the

preparation of the test plan document for the

Newspaper Agency Automatic System:

1. Wikipedia

2. Student project guide

3. Newspaper delivery system development

4. IEEE-829.pdf

5. Schedule and Test plan – FlySense (cmu.edu)

6. Test Plan Template with Detailed Explanation |

Software Testing Material

1. INTRODUCTION

● Purpose of the plan is to Help people outside

the test team such as developers, programmers,

and customers understand the details of testing.

It is like a rule book, which needs to be followed.

● This test plan describes the testing approach

and overall framework that will drive the testing

of the. Newspaper\_agency\_automatic\_system\_1.0

● Strategy of this test to include every aspect (if

everyone pays their dues effectively or not,does

list fugitive pop ups or not ) that can be tested in

this software.

● Scope of testing: Contains the software

components (hardware, software, middleware)

to be tested and those that will not be tested.it

will also help us to know the threshold of the

subscriber that can subscribe the current

agency with the given budget allotted.

1. TEST ITEMS (FUNCTIONS)

● Licence code which will be used by the manager

to open software.

● Login and logout of individual Deliverers.

● There is a Home Page which has the option for

the Manager or Deliverer to login by selecting

the User Type.

*●* He/She can provide his/her Username and password to login.

*●*The Manager can see the Deliverer/ customer details by entering the Deliverer/customer name and ID .

*●*The Manager can add or remove a Deliverer/customer from the list.

*●*The Manager can add or remove a Publication from the publications list.

*●*The Manager can see the summary of current month and can see all customer Bills and all Deliverers day wage.

*●*The Manager can edit the customer/publication details.

*●*The Deliverer can login and see his details like the set of all addresses he has to deliver on a certain day .

1. SOFTWARE RISK ISSUES

|  |  |  |  |
| --- | --- | --- | --- |
| Risk ID | Description | Probability | Impact |
| R001 | Budget cuts may reduce staff, affecting project scope  and schedule. | Unlikely | Thoroughly  Predicted by  experts up to  15% margin  error |
| R002 | Less knowledge  of users about  computer/softwa  re | Likely | *Knowledgeable*  *of user area only* |
| R003 | Change in  Project schedule | Certainty | Over 4 months |
| R004 | Availability of  Team Members | Somewhat Likely | Distributed team  makes  availability  questionable |
| R005 | Team’s Lack of  knowledge of  Package | Likely | Conceptual  understanding | |

1. FEATURES TO BE TESTED

|  |  |
| --- | --- |
| Test | Description |
| Functional Test | To ensure that each element of the application meets the function |
| Performance Test | ensure that our system provides  acceptable response times and  does not exceed the specified  performance criteria |
| Security Test | how secure our system is |
| Recovery Test | will force the system to fail in a various ways and verify the  recovery is properly performed |
| User Acceptance Test | to confirm that the system is  developed according to the  specified user requirements and is  ready for operational use |

1. FEATURES NOT TO BE TESTED

● Unauthorized access to system (Security testing)

● User interfaces (color, fonts, others)

● Load and performance

● User interactions and experience or usability

1. APPROACH

This section of the test plan describes the overall

approach for testing the Newspaper Agency System

project. The approach followed for testing the Newspaper

Agency System ensures that the major features of the

project are adequately tested. The major tasks that are

used are

* 1. Unit testing:

The Unit Testing is a test that tests each single

module of the software to check for errors. This is mainly done to discover errors in the code of the Newspaper Agency System. The main goal of the unit testing would. be to isolate each part of the program and to check the correctness of the code*.*

* 1. Load testing:

Load testing is the process of creating demand on

a system or device and measuring its response. It

generally refers to the practice of modeling the expected usage of a software program by simulating

multiple users accessing the program concurrently. As such, this testing is most relevant for multi-user systems.

* 1. System testing:

Once the entire system has been built then it has to

be tested against the Software Requirement Specification

and System Specification to check if it delivers the

features required. System testing can involve a number of

specialist types of test to see if all the functional and

non-functional requirements have been met.

* 1. Manual testing:

Manual Testing will be done to ensure the

correctness of various parts of the code using test cases

generated by the tester.

1. *ITEM PASS/FAIL CRITERIA*

The completion criteria of the given software are to

run it with less syntax and runtime errors. We could

encounter three situations while executing the test case

normal, suspension, resumption.

Let us have a look at the item pass/fail criteria from a

sample test plan document of web application:

● Suspension Criteria: Any situation which impedes

the ability to continue testing or value in performing

testing led to suspend testing activities.

● Resumption Criteria: When the problem that

caused the suspension had been resolved, testing

activities can be resumed.

*●* Approval Criteria: An item will be considered as

‘Pass’ if it meets the ‘Expected Outcome’ defined in

the corresponding test case.

*10.* SUSPENSION CRITERIA AND

RESUMPTION REQUIREMENTS:

10.1 Suspension criteria:

If the system contains one or more critical

defects like the defects in the editor which provides the

editing features for one line diagrams and database

locking, unlocking and sharing features which provides the

environment for multiple users to work in parallel, the

entire system should be suspended. The testing may also

be suspended if the hardware and software components

required are not available on time. The failed test cases

should be recorded along with the description for failure*.*

10.2 Resumption requirements

When a new version of the system is transmitted

to the test group after a suspension of testing has

occurred, all previous tests will be rerun to ensure

program changes have not inadvertently affected other

portions of the program.

11. TEST DELIVERABLES

The following documents are the available test

deliverables:

1. Test plan

2. Test cases

12. REMAINING TEST TASKS

We are going to release this application in one step,

there are no parts of the application that this plan does not

address.

13. ENVIRONMENTAL NEEDS

Key areas to set up in Test Environment:

● System and applications

● Test data

● Database server

● Front-end running environment

● Client operating system

● Browser

● Hardware includes Server Operating system

● Network

● Documentation required like reference

documents/configuration guides/ user manuals

Process of Software Test environment setup:

Tests are limited to what can be tested and what not

should be tested.

Following people are involved in test environment setup

● System Admins,

● Developers

● Testers

● Sometimes users or techies with an affinity for testing.

14. STAFFING AND TRAINING NEEDS

This section outlines the staffing and training needs

of the project. As this project is being done under the

professor/mentor, the staff here is we the team members

and to be specific with the team members and to be

specific with the training, it is the course we are doing right

now and no additional training is required as of now.

The testing will be done by us, the team and there is

no specificity as test manager and test engineer or test

lead. Any work is being done unitedly.

15. RESPONSIBILITIES

Tester/manager is responsible for testing.

16 SCHEDULE

Schedule of testing of software according to our test

case is as follows:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| TestId | Testingtype | Date/s(exp  ected) | Start time  (expected)  (in IST ) | End time  (expected)  (in IST ) |
| T01 | Testing of manager login | 23/04/2023 | 19:00 | 19:15 |
| T02 | Testing of adding of new customer  By manager. | 23/04/2023 | 19:15 | 19:30 |
| T03 | Testing of adding/removing  Publication by manager. | 23/04/2023 | 19:30 | 19:45 |
| T04 | Testing of adding/removing  Deliverer by manager. | 23/04/2023 | 19:45 | 20:00 |
| T05 | Testing of viewing all the customer details by manager. | 23/04/2023 | 20:00 | 20:30 |
| T06 | Testing of calculation  and printing of bill by manager. | 23/04/2023 | 20:30 | 20:45 |
| T07 | Testing of login of each delivery person and viewing his details. | 23/04/2023 | 20:45 | 21:00 |
| T08 | Testing of calculation of daily wage which 2.5% of the total price of  Publications delivered by him. | 23/04/2023 | 21:00 | 21:15 | |
| T09 | Testing of logout of individual deliverers. | 23/04/2023 | 21:15 | 21:30 | |

The coding part of given software will start from 19:00

of 21/03/2023 in c/c++/java/python gui languages and

expected to be completed up to 17:00 of 9/04/2023.

Further the debugging of the codes of given software will

be carried out up to 23:00 of 10/04/2023.

17 PLANNING RISKS AND

CONTINGENCIES

● Testing effectively without proper testing tools is

not likely good enough. We are testing manually

mostly so it may be risky.

● It may become risky when there is no required

software or hardware or data or tools.

● Delays in training the application or tools also

might be risky.

● Need to inform if any changes are done to the

document before testing.

Planning risks and contingency may include:

● Tight timelines.

● Undefined project scope.

● Effective resource resources.

● Continuously changing requirements by agency.

● Piracy of the software.

● Data breach of data of agency’s subscriber.

● Compatibility of user with given software design.

18 APPROVALS

|  |  |
| --- | --- |
| Project allotted by | Prof.Sourangshu,  Prof.Abir |
| developers/programmes/  testers | Coding ShinobisXX |
| Team Leader | Utsav Dhanuka |

19 GLOSSARY

● Contingency- contingent event or condition:

such as, an event (such as an emergency)

that may but is not certain to occur trying to

provide for every contingency.

● Data breach-an occasion when private

information can be seen by people who

should not be able to see it.

● Piracy- Piracy refers to the unauthorized

duplication of copyrighted content that is

then sold at substantially lower prices in the

'grey' market.

● subscriber-A subscriber is a person who

pays to receive a product or service, for

example a magazine or website.

The test environment requires setting up of various

number of distinct areas like,

● Setup of Test Server

● Network

● Test PC setup

● Bug Reporting

● Creating Test Data for the Test Environment