Tasks Manger

Testing

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# Introduction

## Purpose of writing

The purpose of this plan is to detail the division and schedule of personnel involved in the system development process, determine the solution to the project problem, the system environment, documentation and criteria for product delivery and acceptance, the distribution of project development costs, organization of use, understanding the content of the work,and determine the direction of development.

To learn the theoretical knowledge of software development and master the practical process of software development, this project will develop from the point of view of the specification development process for Tasks Manger, choose a process-oriented approach to development, based on structured programming, analyze problems, confirm the viability of requirements, and then Refine the requirements, clarify the needs of users, perform the design of requirements documentation.

The document is expected to be read by all project participants, including project managers, project planners, system designers, developers, testers, and soon.

## Project background

A Task Manger is a Website whish one of the main resource is the team. Therefore the administrator and manager must carefully manage their teams, which makes a profit for the business.

Previously, the administration of team in the compony/workplace was given in directly order. all information was written on paper, and may have been lost or misspelled. but now it is possible to automate the process of administration of the team and the office.

## **Reference**

1. "Software Requirements Specification"
2. "Software Design Documents"
3. "Software Testing Documents"
4. "Software Deployment and Use Documents"
5. "Manuals for Division of Labor

# Test preparation

## Testing organization

Testers: all members of the project team.

Purpose of testing: to expose errors in the software as much as possible, and to correct and supplement them with modifications.

## Other aspects of testing

The operating conditions of the system prepare the software testing environment, and the person responsible for testing must confirm the testing environment.

First, make sure that the website is working correctly and already meet the requirements. Second, eliminate virus interference. Detection of viruses and antivirus programs in the test environment using antivirus software. In cases where none of the above conditions work properly, the tester must support the test environment. After maintenance is complete, the tester must check and confirm the environment again before testing.

# Test description

## General terms

Testing of Website products and Website projects is divided into functional and system testing, which includes unit tests (requiring all possible paths in the module), Assembly tests (testing each module at the integration stage to identify errors related to the interface), confirmation tests (confirming compliance with Website requirements, determining the configuration of Website), system tests (and integration tests for other components of the system as a whole), and acceptance tests (alpha and beta tests).

Functional testing is divided into two stages of test execution and test summary, system testing is divided into four stages: test plan, test design, test execution and test summary. System testing of software projects can be divided into two situations according to the requirements of the project (contract): system testing at the development site and acceptance testing at the user site. Website project in the development site of the system test according to the requirements of the program file, the user Site Acceptance Test can choose this test program or user requirements and requirements of the test program.

## Functional test execution

Functional testing requires the tester to be familiar with both the internal details of the module, but also from a sufficiently high level of abstract observation test the entire system, the purpose of the test as much as possible to find Website product design and development errors. Functional testing using manual testing, the use of test website tools to complete the test report.

## Test solution

Black box test method, the whole process using the bottom-up, one by one integrated approach, followed by unit testing, assembly testing. The design of the test case should include reasonable and unreasonable input conditions, unit test section should pay attention to include the boundary conditions of the test, the test module all independent execution path and the error handling path test, assembly test should pay attention to the test and the interface related to various errors.

## Testing section

* + 1. Main thread testing

Test content: connecting to the database, working with the system settings, accessing the main interface, logging in to the system Administrator and Manager.

The purpose of testing: to check whether the administrator and Manager log in correctly and accurately, Check-in, Check-out.

Test duration: 4 hours

* + 1. Testing account management

Test content: enter the correct administrator account password and administrator authentication, enter the correct Manger account password and registered Manger authentication

The purpose of testing: testing the login functionality of users with different permissions.

Test duration: 4 hours

* + 1. Testing tasks management

Test content: the administrator changes the tasks information, deletes it, and adds a new one. Requests the current status.

The purpose of testing: to check whether the tasks management functions are working correctly.

Test duration: 4 hours

* + 1. Testing members management

Test content: the administrator interface for managing members, the function of check. Request information about the members.

The purpose of testing: to check whether the members management concept is working correctly

Test duration: 4 hours

# Test analysis

## Guidelines

Scientific and practical, safe and feasible, based on the software Requirements Specification and contract provisions, test as much as possible to expose errors and defects.

## Functional evaluation and defect analysis

The test functions listed above cover all the functions required by the customer. Test using a relatively simple black box test, each function corresponds to several normal and common case of the method, the website is effective scientific test, a rational test conclusion: after the test proved the correctness and completeness of the website functions, in line with the needs of customers, the system is feasible, can be delivered.

Feasibility of the entire system, to prove the usefulness of the website, in line with customer requirements; however, due to the limited test options, test time is short, cannot absolutely avoid very special circumstances under special cases, cannot completely exclude the potential risks of the system, the use of the website in the process still need to be recorded and analyzed

## Testing resource consumption

Testing using a full team of people as testers, conducted up to 16 hours of testing; during the test, design and use a lot of data, the data are useless data for the user, the test is completed clear.

## Recommendations and evaluation

Recommendation: at the moment, the system is stable, but still there is a possibility of occurrence associated with the number of guests and the use of the system for a long time, so our recommendations are to be careful the first year when using the program and always update to the latest dot support version.

Evaluation: the website meets the needs of users and can be delivered for use.