ÇANKAYA UNIVERSITY

Software Engineering Department

SENG 491 – 492 Graduation Project

Test Plan and Test Design Specifications

<<Project Name>>

<<Project Members>>

Version <<1.0>>

Table of Contents

1 TEST PLAN IDENTIFIER

Specifies the unique identifier assigned to the test plan.

2 INTRODUCTION

2.1 Version Control

Version No	Description of Changes	Date
1.0	First Version	Oct. 25, 2019

2.2 Overview

Summarizes the software items and software features to be tested

2.3 Scope

Defines what this test plan covers and provides references to the documents relevant for testing (overall project plan, quality assurance plan, configuration management plan, applicable standards…).

2.4 Terminology

Provides a list of terms and abbreviations along with their definitions.

3 TEST ITEMS

Identifies the items to be tested, including their version/revision level; provides references to the relevant item documentation (requirements specification, design specification, user's guide, operations guide, installation guide …); also identifies items which are specifically excluded from testing.

4 FEATURES TO BE TESTED

Identifies all software features and their combinations to be tested, identifies the Test Design Specification (TDS) associated with each feature and each combination of features.

4.1 Feature 1

Describe Feature briefly

4.2 Feature 2

4.3 Feature ...

5 FEATURES NOT TO BE TESTED:

Identify all features and significant combinations of features which will not be tested, and the reasons for this.

6 APPROACH

Describes the overall approach to testing (the testing activities and techniques applied, the testing of non-functional requirements such as performance and security, the tools used in testing); specifies completion criteria (for example, error frequency or code coverage); identifies significant constraints such as testing-resource availability and strict deadlines; serves for estimating the testing efforts.

7 ITEM PASS/FAIL CRITERIA

Specifies the criteria to be used to determine whether each test item has passed or failed testing.

8 SUSPENSION CRITERIA AND RESUMPTION

Specifies the criteria used to suspend all or portion of the testing activity on the test items (at the end of working day, due to hardware failure or other external exception …), specifies the testing activities which must be repeated when testing is resumed.

9 TEST DELIVERABLES

Identifies the deliverable documents, typically test-design specifications, test-case specifications, test-procedure specifications, test-item transmittal reports, test logs, test-incident reports, description of test-input data and test-output data, description of test tools.

10 TESTING TASKS

Identifies the set of tasks necessary to prepare and perform testing (description of the main phases in the testing process, design of verification mechanisms, plan for maintenance of the testing environment …).

11 ENVIRONMENTAL NEEDS

Specifies both the necessary and desired properties of the test environment (hardware, communications and systems software, software libraries, test support tools, level of security for the test facilities, drivers and stubs to be implemented, office or laboratory space …).

12 RESPONSIBILITIES

Identifies the groups of persons responsible for managing, designing, preparing, executing, witnessing, checking, and resolving the testing process; identifies the groups responsible for providing the test items (section 3) and the environmental needs (section 11).

13 STAFFING AND TRAINING NEEDS

Specifies the number of testers by skill level and identifies training options for providing necessary skills.

14 SCHEDULE

Includes test milestones (those defined in the overall project plan as well as those identified as internal ones in the testing process), estimates the time required to do each testing task, identifies the temporal dependencies between testing tasks, and specifies the schedule over calendar time for each task and milestone.

15 RISKS AND CONTINGENCIES

Identifies the high-risk assumptions of the test plan (lack of skilled personnel, possible technical problems …), specifies contingency plans for each risk (employment of additional testers, increase of night shift, exclusion of some tests of minor importance …).

16 REFERENCES

[1] Dr. Ican Doit, “METU-ONLINE” Specifications”, May 3, 2002
[2]

17 APPROVALS

Specifies the persons who must approve this plan

18 TEST DESIGN SPECIFICATIONS

Provide a subsection for each of the features listed in Section 4.

18.1 Feature 1

18.1.1 Subfeatures to be tested

Provide a list of subfeatures to be tested

18.1.2 Subfeatures not to be tested

Provide a list of subfeatures not to be tested and why

18.1.3 Approach

List refinements or deviation from the Test Plan.

18.1.4 Item Pass/Fail Criteria

List refinements or deviation from the Test Plan.

18.1.5 Environmental Needs

Provide any special environmental needs, such as data, tools, etc.

18.1.6 Test Cases

Use the test case template to provide details of each test case in separate files.

TC ID	Requirements	Priority	Scenario Description

18.2 Feature 2

18.2.1 Subfeatures to be tested

Provide a list of subfeatures to be tested

18.2.2 Subfeatures not to be tested

Provide a list of subfeatures not to be tested and why

18.2.3 Approach

List refinements or deviation from the Test Plan.

18.2.4 Item Pass/Fail Criteria

List refinements or deviation from the Test Plan.

18.2.5 Environmental Needs

Provide any special environmental needs, such as data, tools, etc.

18.2.6 Test Cases

Use the test case template to provide details of each test case in separate files.

TC ID	Requirements	Priority	Scenario Description

18.3 Feature ...