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# TEST PLAN

for

## Online Placement Information Gathering System

Version 1.0

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# Contents

<b>1</b>	<b>Introduction</b>	<b>3</b>
1.1	Objective . . . . .	3
1.2	Testing Strategy . . . . .	3
1.3	References . . . . .	3
<b>2</b>	<b>TEST ITEMS (FUNCTIONS)</b>	<b>4</b>
2.1	Unit Testing . . . . .	4
2.1.1	Automated testing . . . . .	4
2.1.2	Manual Testing . . . . .	5
<b>3</b>	<b>Pass or Fail criteria</b>	<b>6</b>
3.1	Suspension Criteria . . . . .	6
3.2	Approval Criteria . . . . .	6

# 1 Introduction

## 1.1 Objective

This document is a high-level overview defining testing strategy for the Online Placement Information Gathering System (OPIGS). Its objective is to communicate project-wide quality standards and procedures. It portrays a snapshot of the project as of the end of the planning phase. This document will address the different standards that will apply to the unit testing of the specified application. Testing criteria under the white box, black box, and system-testing paradigm will be utilized. This paradigm will include, but is not limited to, the testing criteria, methods, and test cases of the overall design. Throughout the testing process the test documentation specifications described in the IEEE Standard 829-1983 for Software Test Documentation will be applied.

## 1.2 Testing Strategy

Testing is the process of analyzing a software item to detect the differences between existing and required conditions and to evaluate the features of the software item. Specific test plan components include :

- Purpose for this level of test,
- Management and technical approach,
- Pass/Fail Criteria,
- Hardware/Software requirements,

## 1.3 References

Standard procedure as per IEEE format as given in the below documentation is followed:  
IEEE Test Plan Outline in IEEE 829 FORMAT

## 2 TEST ITEMS (FUNCTIONS)

### 2.1 Unit Testing

Unit Testing is done at the source or code level for language-specific programming errors such as bad syntax, logic errors, or to test particular functions or code modules. The unit test cases shall be designed to test the validity of the programs correctness. Unit testing includes automated testing of all the classes in the program and manual testing of the graphical user interface.

We enumerate the unit tests for different users of the portal separately as given below:

#### 2.1.1 Automated testing

1. ***Student***: The Create-Read-Update-Delete (CRUD) Operations in Database are first tested for the Student.

The following functions are tested for Student

- a) `upload_resume()`
- b) `apply_for_company()`
- c) `view_notifications()`
- d) `signup()`
- e) `login()`

2. ***CompanyAdmin***: The Create-Read-Update-Delete (CRUD) Operations in Database are first tested for the CompanyAdmin.

The following functions are tested for CompanyAdmin

- a) `post_recruitment()`
- b) `view_resume()`
- c) `view_notifications()`
- d) `signup()`
- e) `login()`

3. ***Alumni***: The Create-Read-Update-Delete (CRUD) Operations in Database are tested for the Alumni.

The following functions are tested for Alumni

- a) `give_feedback()`

- b) view\_resume()
- c) view\_notifications()
- d) signup()
- e) login()

4. ***InstituteAdmin***: The Create-Read-Update-Delete (CRUD) Operations in Database are tested for the InstituteAdmin.

The following functions are tested for InstituteAdmin

- a) verify\_company()
- b) post\_announcements()
- c) view\_notifications()
- d) signup()
- e) login()

### **2.1.2 Manual Testing**

The GUI shall be tested manually by creating various kinds of accounts, testing all functionalities and checking proper functioning of all forms, buttons and links.

## **3 Pass or Fail criteria**

### **3.1 Suspension Criteria**

The test is considered suspended if any of the following is encountered:

1. The software crashes
2. The software produces incorrect output
3. The software takes more than expected time to produce the output

### **3.2 Approval Criteria**

The test is considered approved if software produces correct output as per the demand of client.