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# **Purpose**

The document describes the plan for testing the student information as a school administrator. It includes

* Test strategy
* Test execution
* Test management

The main purpose of this test plan is to test the role of school administrator which includes viewing, sorting, exporting of different students or individual students on the basis of score and their name.

# **Problem statement**

The problem with current schools and colleges is that the students are lacking motivation and self-esteem. The number of students dragged to depression and suicidal tendencies is reaching its threshold. So, to address this problem, this application allows the admin to view the records of all the students.The admin is able to analyze their annual performance and provide counseling to motivate them and boost their confidence related to a particular course. There are lots of students who deserve a scholarship opportunity in colleges and universities. Scrutinizing students records can help admin refer students about renowned universities for further studies and their scholarship plan.

# **Introduction**

This project mainly focuses on the task to be performed by a school administrator. And here in this project the school administrator should be able to

1. View the list of all students
2. View the individual scores of student
3. Search student according to name and score
4. Sort student details
5. Export student details in csv format

# **In scope**

It includes testing of different modules and use of different types of testing. Testing types includes

**Functional testing**

In this testing the system will be tested against the functional requirement or functional specification.

**UI testing**

-In this testing the design of the system will be tested

-form fields will also be tested

**Regression testing**

It is a type of software testing to confirm that a recent program or code change has not adversely affected existing features.

**Database testing**

It is a type of software testing in which checking of schema, table, triggers etc are tested. It checks the data integrity and consistency.

**Sanity testing**

The goal of sanity test is to determine that the proposed functionality works roughly as expected.

## **API testing**

It is a type of software testing that involves testing application programming interfaces (APIs) directly and as part of integration testing to determine if they meet expectations for functionality, reliability, performance and security.

# **Out of scope**

## **Performance testing**

**-**Performance testing will not be performed.

## **Security testing**

-The security of the system will not be tested.

# **Features to be tested**

In this system main features to be tested are:

-Login functionality

-View scores of student

-Search functionality

-Sorting functionality

-Exporting to csv format

# **Test strategy**

## **Test data preparation**

### Decision tree testing technique

It includes the data preparation for the login page. It uses the decision tree testing technique where the system behaviour for different input combination is used which is also called cause-effect testing technique.

**Testing types**

#### API testing

-API testing will be performed by sending a GET request to check whether the system respond or not and viewing the status code.

#### Database testing

-In this system database testing will be done by CRUD operation using query.

#### Sanity testing

-Sanity testing will be performed by initiating from login page, student view page,student detail page, exporting and logging out of the system which are the main functionality.

#### UI testing

-UI testing in this system will be done by checking the pixels and checking the fields of the form whether they are accepting the value or not. Also, the logo present in the system are loading or not and their size.

#### Regression testing

-Regression testing will be done when errors occur in the system and after the bug fixed there is no change in the system functionality.

# **Risks and assumptions**

## Risks

|  |  |  |  |
| --- | --- | --- | --- |
| **Risk** | **Impact** | **Probability** | **Mitigation Plan** |
| Test data testing might not be sufficient | High | High | Verify that all the test data are sufficient |
| Preparation of test items | High | Medium | Test items should be prepared on time |
| Late change in the requirements | Medium | Medium | Late requirement change must be avoided |
| Estimation | Medium | Medium | Proper estimation planning |

## **Assumptions**

The assumptions included in this testing are:

* There is no late change in the requirements of the application
* The user stories are valid.
* There is no delay in the delivery of the test items.

# **Testing environment**

**Tools**

**-**browsers include chrome version 79.0.3945.88

-different OS like windows 10

# **Test deliverables**

It includes

* Test Plan Document
* Test Cases
* Bug Report
* Summary report