

Student Management System

Bug Report Document



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**Course:** PROG 1400 - Introduction to Object-Oriented Programming

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Table of Contents

[Authors Note iii](#_Toc195205315)

[Test Case- Student Management System 2](#_Toc195205316)

[Test Case-Student Management System: Instructor 4](#_Toc195205317)

[Test Case-Student Management System: Employee 6](#_Toc195205318)

# Authors Note

This document was originally used as a template for for System analysis and design classes. The authors of this paper have been granted consent of the provider of the template to be used for the official documentation of this project.

This document is to highlight “bugs” discovered when testing the code of the student management system. Assume that these bugs have been corrected. For any clarifications please consult with the authors of the document for any additional clarification needed.

Thank you

# Test Case- Student Management System

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID/Title: | | TC#001 – Adding Student with Various Inputs | | | |
| Type: | | Black Box | | | |
| For System: | | **Student Management System** | | | |
| Use Case: | | Entering A student | | | |
| Prerequisites: | | The Program successfully | | | |
| Form Element Test Listing: (add more element tests as required) | | | | | |
| Test # | **Form Element Function/Purpose** | | | **Form element type (e.g. Text Box)** | |
| 1 | Manage Students | | | Press 1 | |
| 2 | Enter Students Name | | | Type “test” | |
| 3 | Enter students Major: | | | Type “Test” | |
| 4 | Enter Email | | | Test123@mail.com | |
| 5 | Students Age | | | Type 33 | |
| Form Element Test Details: | | | | | |
| Test # | **Scenario** | | **Expected Result** | | **Actual Result** |
| 1 | **Full Field** | | **No Errors** | | **No errors, moved onto next phase** |
| 2 | Empty Fields | | Warning Message | | Program will not continue and eventually crash |
| Special characters such as #, ", ', &, and < … (include both generic and BR tests) | | Warning Message | | Program Crashes |
| Integers 1,2,3… | | Warning Message | | Student is accepted |
| 3 | Duplicate Student | | Warning Message for additional info | | Duplicate student is accepted |
| 4. | Deleting Employee and RE adding | | Venti to appear in order up | | New Id given |
| 5 | Typing Students Age with string instead of InT | | Warning Message | | Program crashes |
| 6. | Close program, repoen to see list of students, faculty,instructors | | List of students, faculty,instructors | | List is empty, you MUST save after each entry in the program, does not write to file after every entry, could be problem if program crashes |

# Test Case-Student Management System: Instructor

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID/Title: | | TC#002 – Adding Instructor with Various Inputs | | | |
| Type: | | Black Box | | | |
| For System: | | **Student Management System** | | | |
| Use Case: | | Entering an instructor | | | |
| Prerequisites: | | The Program successfully | | | |
| Form Element Test Listing: (add more element tests as required) | | | | | |
| Test # | **Form Element Function/Purpose** | | | **Form element type (e.g. Text Box)** | |
| 1 | Manage Instructor | | | Press 2 | |
| 2 | Enter Instructor Name | | | Type “test” | |
| 3 | Enter Instructor Department | | | Type “Test” | |
| 4 | Enter Address | | | 1232 this street | |
| 5 | Instructor Age | | | Type 33 | |
| Form Element Test Details: | | | | | |
| Test # | **Scenario** | | **Expected Result** | | **Actual Result** |
| 1 | **Full Field** | | **No Errors** | | **No errors, moved onto next phase** |
| 2 | Empty Fields | | Warning Message | | Program will not continue and eventually crash |
| Special characters such as #, ", ', &, and < … (include both generic and BR tests) | | Warning Message | | Program Crashes |
| Integers 1,2,3… | | Warning Message | | Student is accepted |
| 3 | Duplicate Student | | Warning Message for additional info | | Duplicate student is accepted |
| 4. | Deleting Instructor and RE adding | | Details to be the same as deletion | | New Id given |
| 5 | Typing Students Age with string instead of an INT | | Warning Message | | Program crashes |
| 6. | Close program, reopen to see the list of students, faculty, and instructors | | List of students, faculty, and instructors | | The list is empty, You MUST save after each entry in the program; it does not write to the file after every entry, which could be a problem if the program crashes |

# Test Case-Student Management System: Employee

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ID/Title: | | TC#002 – Adding Instructor with Various Inputs | | | |
| Type: | | Black Box | | | |
| For System: | | **Student Management System** | | | |
| Use Case: | | Entering an Employee | | | |
| Prerequisites: | | The Program successfully | | | |
| Form Element Test Listing: (add more element tests as required) | | | | | |
| Test # | **Form Element Function/Purpose** | | | **Form element type (e.g. Text Box)** | |
| 1 | Manage Employee | | | Press 3 | |
| 2 | Enter Employee Name | | | Type “test” | |
| 3 | Enter EmployeeDepartment | | | Type “Test” | |
| 4 | Enter Address | | | Test123@mail.com | |
| 5 | Students Age | | | Type 33 | |
| Form Element Test Details: | | | | | |
| Test # | **Scenario** | | **Expected Result** | | **Actual Result** |
| 1 | **Full Field** | | **No Errors** | | **No errors, moved onto next phase** |
| 2 | Empty Fields | | Warning Message | | Program will not continue and eventually crash |
| Special characters such as #, ", ', &, and < … (include both generic and BR tests) | | Warning Message | | Program Crashes |
| Integers 1,2,3… | | Warning Message | | Employee is accepted |
| 3 | Duplicate Employee | | Warning Message for additional info | | Duplicate Employeeis accepted |
| 4. | Deleting Employee and RE adding | | Same details and ID to be given back | | New Id given |
| 5 | Typing Employee Age with string instead of an INT | | Warning Message | | Program crashes |
| 6. | Close program, reopen to see the list of students, faculty, and instructors | | List of students, faculty, and instructors | | The list is empty, You MUST save after each entry in the program; it does not write to the file after every entry, which could be a problem if the program crashes |