

COMP S350F Group 3

Test Report

Group Number: Group 3

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GitHub Link: <https://github.com/kellyyii/project>

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Client Team: Group 4

Statement:

This report is to identify the achievements and testing outcomes of our application. It provides an overview of the features and testing process of our students' record system application. The application is designed to efficiently manage and store student records, providing a user-friendly interface for administrators and teachers. Also, highlighted the achievements and testing outcomes of our students' record system application.

Test Case 1

Original form:

<											
	id	SID	Student Name	GPA1	GPA2	pw	Email	GPA	CGPA	Phone Number	Avg Marks
1	1	s1	Lamy	2	3	Lamy	Lamy@gmail.com	7	5	112	2.5

Fig 1.1

After activating the“ADD”Function:

<											
	id	SID	Student Name	GPA1	GPA2	pw	Email	GPA	CGPA	Phone Number	Avg Marks
1	1	s1	Lamy	2	3	Lamy	Lamy@gmail.com	7	5	112	2.5
2	12	Input SID	None	None	None	None	None	None	None	None	Error

Fig 1.2

After Input Data

<											
	id	SID	Student Name	GPA1	GPA2	pw	Email	GPA	CGPA	Phone Number	Avg Marks
1	1	s1	Lamy	2	3	Lamy	Lamy@gmail.com	7	5	112	2.5
2	12	s2	Test Case 1	5	10	s2	s2@gmail.com	4	8	266235325	Error

Fig 1.3

After updated to SQL Database:

1. Changed will be saved
2. Average Mark will be shown

<											
	id	SID	Student Name	GPA1	GPA2	pw	Email	GPA	CGPA	Phone Number	Avg Marks
1	1	s1	Lamy	2	3	Lamy	Lamy@gmail.com	7	5	112	2.5
2	12	s2	Test Case 1	5	10	s2	s2@gmail.com	4	8	266235325	7.5

Fig 1.4

Test Case 2(Followed by Test Case 1) :

Test 2-1

Try Spamming the“ADD”Function:

<											
	id	SID	Student Name	GPA1	GPA2	pw	Email	GPA	CGPA	Phone Number	Avg Marks
1	1	s1	Lamy	2	3	Lamy	Lamy@gmail.com	7	5	112	2.5
2	12	s2	Test Case 1	5	10	s2	s2@gmail.com	4	8	266235325	7.5
3	13	Input SID	None	None	None	None	None	None	None	None	Error
4	14	Input SID	None	None	None	None	None	None	None	None	Error
5	15	Input SID	None	None	None	None	None	None	None	None	Error
6	16	Input SID	None	None	None	None	None	None	None	None	Error
7	18	Input SID	None	None	None	None	None	None	None	None	Error
8	19	Input SID	None	None	None	None	None	None	None	None	Error
9	20	Input SID	None	None	None	None	None	None	None	None	Error
10	21	Input SID	None	None	None	None	None	None	None	None	Error
11	24	Input SID	None	None	None	None	None	None	None	None	Error
12	25	Input SID	None	None	None	None	None	None	None	None	Error
13	26	Input SID	None	None	None	None	None	None	None	None	Error
14	28	Input SID	None	None	None	None	None	None	None	None	Error
15	30	Input SID	None	None	None	None	None	None	None	None	Error
16	32	Input SID	None	None	None	None	None	None	None	None	Error
17	33	Input SID	None	None	None	None	None	None	None	None	Error
18	17	Input SID	None	None	None	None	None	None	None	None	Error
19	23	Input SID	None	None	None	None	None	None	None	None	Error
20	27	Input SID	None	None	None	None	None	None	None	None	Error
21	29	Input SID	None	None	None	None	None	None	None	None	Error
22	31	Input SID	None	None	None	None	None	None	None	None	Error
23	22	Input SID	None	None	None	None	None	None	None	None	Error

Fig 2.1

Problem :

1. non-unique SID will be generated
2. update function cannot target the correct row was discovered in the test before

Way to Solve:

- Adding a unique ID column for each row
- ID Column generated by SQL DataBase Server

- Key cannot be edit or change to keep it unique

Test 2-2

Input multiple "aaaaa" in different row and column and press the update button

id	SID	Student Name	GPA1	GPA2	pw	Email	GPA	CGPA	Phone Number	Avg Marks
1	s1	Lamy	2	3	Lamy	Lamy@gmail.com	7	5	112	2.5
2	s2	Test Case 1	5	10	s2	s2@gmail.com	4	8	266235325	7.5
3	Input SID	Test Case 2	HAHA	HEHE	None	None	None	None	None	Error
4	Input SID	Test Case 2 Also	2	3	None	None	None	None	None	2.5
5	Input SID	None	aaaaa	None	None	None	None	None	None	Error
6	Input SID	a a a a a a	None	aaa	None	None	None	None	None	Error
7	Input SID	None	None	None	aaaa	None	None	None	None	Error
8	Input SID	None	d d	None	None	aaaa	None	None	None	Error
9	Input SID	None	None	ww	None	None	aaa	None	None	Error
10	Input SID	None	None	None	@\$%@^@#@^	None	None	aa	None	Error
11	Input SID	None	None	None	None	None	None	None	aaaaa	Error
12	Input SID	None	None	None	None	None	None	None	None	Error
13	Input SID	None	None	None	None	None	None	None	None	Error
14	Input SID	None	None	None	None	None	None	None	None	Error
15	Input SID	None	None	None	None	None	None	None	None	Error
16	Input SID	None	None	None	None	None	None	None	None	Error
17	Input SID	None	None	None	None	None	None	None	None	Error
18	Input SID	None	None	None	None	None	None	None	None	Error
19	Input SID	None	None	None	None	None	None	None	None	Error
20	Input SID	None	None	None	None	None	None	None	None	Error
21	Input SID	None	None	None	None	None	None	None	None	Error
22	Input SID	None	None	None	None	None	None	None	None	Error
23	Input SID	None	None	None	None	None	None	None	None	Error

Fig 2.2

Result : No Error

Test 2-3

Inputting Wrong Data Type

String "HAHA" and "HEHE" was input to the GPA1 and GPA2 column

id	SID	Student Name	GPA1	GPA2	pw	Email	GPA	CGPA	Phone Number	Avg Marks
1	s1	Lamy	2	3	Lamy	Lamy@gmail.com	7	5	112	2.5
2	s2	Test Case 1	5	10	s2	s2@gmail.com	4	8	266235325	7.5
3	Input SID	Test Case 2	HAHA	HEHE	None	None	None	None	None	Error
4	Input SID	Test Case 2 Also	2	3	None	None	None	None	None	2.5
5	Input SID	None	aaaa	None	None	None	None	None	None	Error
6	Input SID	None	None	aaa	None	None	None	None	None	Error

Fig 2.3

Fig 2.5

Way to solve : Increasing maximum data length from 10 to 30

Conclusion

Testing Method Used :

- Use-caseTesting
 - Requirements Testing
 - Performance Testing
 - Test-Driven Development Testing
 - Regression Testing
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Test case 1 : Test with Normal input

Test case 2 : Test with Extreme input

Testing result:

- No interface error
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Error discovered by testing :

- Data length : max (10)
 - Unique key for row data is required
 - Row data will can not be changed at once
 - Column name bug(crash if contain space)
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Fixed error/ Changes Made:

- Creating Unique Column “id” for each row
- Changing the maximum Data Length from 10 to 30
- Able to change all row data at once
- Column name now allow space