

Seed Project with 100 Defects

Requirement for execution

- Architectural dependency: 64 bit JVM
- Resources requirement: Executable jar file

Instruction for execution

In Unix:

1. Download the executable jar file named Talent.jar
2. Open up a terminal window
3. Change into the directory where you saved the jar file
4. Run the following command:
java -jar Talent.jar

In Windows:

1. Download the executable jar file
2. Double click the jar file

FYI

- A JDBC driver comes with our executable jar file. There's no need to download a JDBC driver.
- There's no need to set up the database manually because we have put our database server on a database hosting platform which is running all the time. The Java application itself will connect to the database server inside the program at the beginning of execution.

User Info for Login

- **Judge**
 - UserID: 1, Password: 1
 - UserID: 2, Password: 2
 - UserID: 3, Password: 3
 - UserID: 4, Password: 4
- **Contestant**
 - UserID: 1, Password: 1
 - UserID: 2, Password: 2

- ...
- UserID: 12, Password: 12

Program Instruction and Functionality

● Judge User

- In the LoginScreen, a judge user can login by entering the correct user ID and password.
- In the JudgeMenuScreen, a contestant user can choose a specific task.
- In the CreateARoundScreen, a judge user can create a competition round by specifying detail information of a competition round.
- In the ModifyARoundScreen, a judge user can modify a competition round by specifying detail information of a competition round.
- In the AssignContestantScreen, a judge user can assign a contestant to the competition round in which the contestant is attending.
- In the CreateAnEvaluationScreen, a judge user can create an evaluation item for each competition round. For example, singing could be an evaluation in the talent competition.
- In the ModifyAnEvaluationScreen, a judge user can modify an evaluation item for each competition round.
- In the EnterScoreScreen, a judge user can record the score of each contestant.
- In the ReportOfRoundsScreen, a judge user can see a report of each competition round including information such as the corresponding number of contestants.
- In the ReportOfContestantsAndScoresScreen, a judge user can see a report of the scores of each contestant.

● Contestant User

- In the LoginScreen, a contestant user can login by entering the correct user ID and password.
- In the ContestantMenuScreen, a contestant user can choose a specific task.
- The CalendarOfEvaluationScreen, a contestant user can see a list of the score posting date of each evaluation so that he/she could check his/her score on that day.
- The ReportOfRoundScreen, a contestant user can check the detail information of each competition round.
- The ReportOfScoreScreen, a contestant user can check his/her scores on each competition round.

Defect Logs

Defect #	Defect	Resultant Output		Suggested Correction	How can the defect be caught	Severity
		Before Seeding	After Seeding			
1	In LoginScreen, input UserID with non-integer causes exception but no message is displayed in GUI, the program stays on the LoginScreen	A message is displayed indicating invalid input	Input is not checked so exceptions are thrown, and program simply doesn't respond after clicking "Submit" button	Check the input and display an error message	Black Box	S3
2	In LoginScreen, input UserID with integer greater than 2147483647 causes exception but no message is displayed in GUI, the program stays on the LoginScreen	A message is displayed indicating invalid input	Input is not checked so exceptions are thrown, and program simply doesn't respond after clicking "Submit" button	Check the input and display an error message	Black Box	S3
3	In LoginScreen, input empty UserID causes exception but no message is displayed in GUI, the program stays on the LoginScreen	A message is displayed indicating invalid input	Input is not checked so exceptions are thrown, and program simply doesn't respond after clicking "Submit" button	Check the input and display an error message	Black Box	S3
4	In LoginScreen, input empty UserID and empty UserPassword causes exception but no message is displayed in GUI, the program stays on the LoginScreen	A message is displayed indicating invalid input	Input is not checked so exceptions are thrown, and program simply doesn't respond after clicking "Submit" button	Check the input and display an error message	Black Box	S3
5	In LoginScreen, input nonexistent JudgeUserID causes exception but no message is displayed in GUI, the program stays on the LoginScreen	A message is displayed indicating invalid user info and login fail	Exceptions are thrown, and program simply doesn't respond after clicking "Submit" button	Check whether the return value from database is null and display an error message	Black Box	S3
6	In LoginScreen, input nonexistent	A message is displayed indicating invalid user	Exceptions are thrown, and program	Check whether the	Black Box	S3

	ContestantUserID causes exception but no message is displayed in GUI, the program stays on the LoginScreen	info and login fail	simply doesn't respond after clicking "Submit" button	return value from database is null and display an error message		
7	In LoginScreen, if the radio button is not selected, the program tries to login in as a contestant even though the contestant button is not selected.	Only when the radio button for contestant is selected can a user login as a contestant.	A user can login as a contestant without having to select the radio button.	Add an if statement to ensure that a user can only login as a contestant when the radio button for contestant is selected	Black Box	S2
8	In LoginScreen, after logging out from JudgeMenu, all the textfields in the LoginScreen are filled with text content the user typed last time	All the textfields in the LoginScreen are cleared when logging out from JudgeMenu.	All the textfields in the LoginScreen are not cleared when logging out from JudgeMenu.	Clear all the textfields (use method setText) in LoginScreen when logging out from JudgeMenu.	Black Box	S3
9	In LoginScreen, after logging out from ContestantMenu, all the textfields in the LoginScreen are filled with text content the user typed last time	All the textfields in the LoginScreen are cleared when logging out from ContestantMenu.	All the textfields in the LoginScreen are not cleared when logging out from ContestantMenu.	Clear all the textfields (use method setText) in LoginScreen when logging out from JudgeMenu.	Black Box	S3
10	In LoginScreen, after logging out from JudgeMenu, the radio button for judge is selected	The radio button in the LoginScreen is not selected for any role when logging out from JudgeMenu.	The radio button in the LoginScreen is selected for judge when logging out from JudgeMenu.	Clear the selection for the radio button in LoginScreen when logging out from JudgeMenu.	Black Box	S3
11	In LoginScreen, after logging out from ContestantMenu, the radio button for contestant is selected	The radio button in the LoginScreen is not selected for any role when logging out from ContestantMenu.	The radio button in the LoginScreen is selected for contestant when logging out from ContestantMenu.	Clear the selection for the radio button in LoginScreen	Black Box	S3

				when logging out from ContestantMenu.		
12	In CreateARoundScreen, creating a round with an existing round name can't be done, exception happens, but no message displayed to inform the user that it fail to create a round, the program let the user believe that it succeeded and switches to the menu screen.	An error message is displayed informing the existance of the same round name and that it fails to create a round.	No message is displayed when it fails to create a round due to duplicate round name.	Display a message informing the user that it failes to create a round when the round name already exist.	White Box	S2
13	In CreateARoundScreen, creating a round with empty round name is possible	A message is displayed indicating invalid input	An round with empty round name can be created without displaying error message.	Check the input and display an error message	Black Box	S2
14	In CreateARoundScreen, input empty season causes exception but no message is displayed in GUI, the program stays on the CreateARoundScreen	A message is displayed indicating invalid input	Input is not checked so exceptions are thrown, and program simply doesn't respond after clicking "Submit" button	Check the input and display an error message	Black Box	S3
15	In CreateARoundScreen, input empty year causes exception but no message is displayed in GUI, the program stays on the CreateARoundScreen	A message is displayed indicating invalid input	Input is not checked so exceptions are thrown, and program simply doesn't respond after clicking "Submit" button	Check the input and display an error message	Black Box	S3
16	In CreateARoundScreen, input year with non-integer causes exception but no message is displayed in GUI, the program stays on the CreateARoundScreen	A message is displayed indicating invalid input	Input is not checked so exceptions are thrown, and program simply doesn't respond after clicking "Submit" button	Check the input and display an error message	Black Box	S3
17	In CreateARoundScreen, input year with integer but not a valid year integer, no error message is displayed and a round can be created.	A message is displayed indicating invalid input. The round can't be created.	Input is not checked and the program created a round based on invalid year.	Check the input and display an error message	Black Box	S2
18	In CreateARoundScreen, input empty time, no error message is displayed and a round can be created.	A message is displayed indicating invalid input. The round can't be created.	Input is not checked and the program created a round based on empty time.	Check the input and display an error	Black Box	S2

				message		
19	In CreateARoundScreen, input empty location, no error message is displayed and a round can be created.	A message is displayed indicating invalid input. The round can't be created.	Input is not checked and the program created a round based on empty location.	Check the input and display an error message	Black Box	S2
20	In CreateARoundScreen, input with all fields empty causes exception but no message is displayed in GUI, the program stays on the CreateARoundScreen	A message is displayed indicating invalid input	Input is not checked so exceptions are thrown, and program simply doesn't respond after clicking "Submit" button	Check the input and display an error message	Black Box	S3
21	In CreateARoundScreen, when entering the screen the second time, all the textfields are filled with text content the user typed last time	All the textfields in the CreateARoundScreen are cleared when switching to another screen.	All the textfields in the CreateARoundScreen are not cleared when switching to another screen.	Clear all the textfields (use method setText) in CreateARoundScreen when switching to another screen.	Black Box	S3
22	In ModifyARoundScreen, modifying a round name to an existing round name can't be done, exception happens, but no message displayed to inform the user that it fails to modify a round, the program let the user believe that it succeeded and switches to the menu screen.	An error message is displayed informing the existence of the same round name and that it fails to modify a round.	No message is displayed when it fails to modify a round due to duplicate round name.	Display a message informing the user that it fails to modify a round when the round name already exist.	White Box	S2
23	In ModifyARoundScreen, input empty season causes exception but no message is displayed in GUI, the program stays on the ModifyARoundScreen	A message is displayed indicating invalid input	Input is not checked so exceptions are thrown, and program simply doesn't respond after clicking "Submit" button	Check the input and display an error message	Black Box	S3
24	In ModifyARoundScreen, input empty year causes exception but no message is displayed in GUI, the program stays on the ModifyARoundScreen	A message is displayed indicating invalid input	Input is not checked so exceptions are thrown, and program simply doesn't respond after clicking "Submit" button	Check the input and display an error message	Black Box	S3
25	In ModifyARoundScreen, input year with non-integer	A message is displayed indicating invalid input	Input is not checked so exceptions are	Check the input and	Black Box	S3

	causes exception but no message is displayed in GUI, the program stays on the ModifyARoundScreen		thrown, and program simply doesn't respond after clicking "Submit" button	display an error message		
26	In ModifyARoundScreen, input year with integer but not a valid year integer, no error message is displayed and a round can be modified.	A message is displayed indicating invalid input. The round can't be modified.	Input is not checked and the program modified a round based on invalid year.	Check the input and display an error message	Black Box	S2
27	In ModifyARoundScreen, input empty time, no error message is displayed and a round can be modified.	A message is displayed indicating invalid input. The round can't be modified.	Input is not checked and the program modified a round based on empty time.	Check the input and display an error message	Black Box	S2
28	In ModifyARoundScreen, input empty location, no error message is displayed and a round can be modified.	A message is displayed indicating invalid input. The round can't be modified.	Input is not checked and the program modified a round based on empty location.	Check the input and display an error message	Black Box	S2
29	In ModifyARoundScreen, input with all fields empty causes exception but no message is displayed in GUI, the program stays on the ModifyARoundScreen	A message is displayed indicating invalid input	Input is not checked so exceptions are thrown, and program simply doesn't respond after clicking "Submit" button	Check the input and display an error message	Black Box	S3
30	In ModifyARoundScreen, when selecting empty round name from the dropbox, no error message is displayed and it fails to modify any round, the program let the user believe that it succeeded and switches to the menu screen.	An error message is displayed indicating empty round name and that it fails to modify a round.	No message is displayed when it fails to modify a round due to empty round name.	Check the input and display an error message	White Box	S2
31	In ModifyARoundScreen, when entering the screen the second time, all the textfields are filled with text content the user typed last time	All the textfields in the ModifyARoundScreen are cleared when switching to another screen.	All the textfields in the ModifyARoundScreen are not cleared when switching to another screen.	Clear all the textfields (use method setText) in ModifyARoundScreen when switching to another screen.	Black Box	S3
32	In AssignContestantToRoundScreen, selecting nothing and	A message is displayed indicating invalid input	Input is not checked so exceptions are thrown, and program	Check the input and display an	Black Box	S3

	click submit causes exception but no message is displayed in GUI, the program stays on the AssignContestantToRoundScreen		simply doesn't respond after clicking "Submit" button	error message		
33	In AssignContestantToRoundScreen, trying to make an assignment that already exists can't be done, exception happens, but no message displayed to inform the user that it fail to assign contestant to round, the program let the user believe that it succeeded and switches to the menu screen.	An error message is displayed informing the existence of the same assignment and that it fails to assign.	No message is displayed when it fails to assign contestant to round due to duplicate assignment.	Display a message informing the user that it fails to assign contestant to round when the assignment already exist.	White Box	S2
34	In AssignContestantToRoundScreen, selecting empty ContestantID and click submit causes exception but no message is displayed in GUI, the program stays on the AssignContestantToRoundScreen	A message is displayed indicating invalid input	Input is not checked so exceptions are thrown, and program simply doesn't respond after clicking "Submit" button	Check the input and display an error message	Black Box	S3
35	In AssignContestantToRoundScreen, selecting empty RoundName and click submit causes exception but no message is displayed in GUI, the program stays on the AssignContestantToRoundScreen	A message is displayed indicating invalid input	Input is not checked so exceptions are thrown, and program simply doesn't respond after clicking "Submit" button	Check the input and display an error message	Black Box	S3
36	In CreateEvaluationScreen, selecting empty RoundName and clicking submit causes exception but no message is displayed in GUI	A message is displayed indicating invalid input	Input is not checked so exceptions are thrown, and program simply doesn't respond after clicking "Submit" button	Check the input and display an error message	Black Box	S3
37	In CreateEvaluationScreen, input empty evaluation type, no error message is displayed and an evaluation	A message is displayed indicating invalid input. The evaluation can't be created.	Input is not checked and the program created an evaluation based on empty	Check the input and display an error	Black Box	S2

	can be created.		evaluation type.	message		
38	In CreateEvaluationScreen, input empty percent weight causes exception but no message is displayed in GUI, the program stays on the CreateEvaluationScreen	A message is displayed indicating invalid input	Input is not checked so exceptions are thrown, and program simply doesn't respond after clicking "Submit" button	Check the input and display an error message	Black Box	S3
39	In CreateEvaluationScreen, input percent weight with non-integer causes exception but no message is displayed in GUI, the program stays on the CreateEvaluationScreen	A message is displayed indicating invalid input	Input is not checked so exceptions are thrown, and program simply doesn't respond after clicking "Submit" button	Check the input and display an error message	Black Box	S3
40	In CreateEvaluationScreen, input percent weight with integer but not a valid integer between 0 and 100, no error message is displayed and an evaluation can be created.	A message is displayed indicating invalid input. The evaluation can't be created.	Input is not checked and the program created an evaluation based on invalid percent weight.	Check the input and display an error message	Black Box	S2
41	In CreateEvaluationScreen, input empty deadline date causes exception but no message is displayed in GUI, the program stays on the CreateEvaluationScreen	A message is displayed indicating invalid input	Input is not checked so exceptions are thrown, and program simply doesn't respond after clicking "Submit" button	Check the input and display an error message	Black Box	S3
42	In CreateEvaluationScreen, input deadline date with non-date format causes exception but no message is displayed in GUI, the program stays on the CreateEvaluationScreen	A message is displayed indicating invalid input	Input is not checked so exceptions are thrown, and program simply doesn't respond after clicking "Submit" button	Check the input and display an error message	Black Box	S3
43	In CreateEvaluationScreen, when entering the screen the second time, all the textfields are filled with text content the user typed last time	All the textfields in the CreateEvaluationScreen are cleared when switching to another screen.	All the textfields in the CreateEvaluationScreen are not cleared when switching to another screen.	Clear all the textfields (use method setText) in CreateEvaluationScreen when switching to another screen.	Black Box	S3
44	In ModifyEvaluationScreen, selecting empty RoundName and clicking submit causes exception but no message is displayed in GUI	A message is displayed indicating invalid input	Input is not checked so exceptions are thrown, and program simply doesn't respond after clicking	Check the input and display an error message	Black Box	S3

			"Submit" button			
45	In ModifyEvaluationScreen, selecting empty EvaluationType and clicking submit causes exception but no message is displayed in GUI	A message is displayed indicating invalid input	Input is not checked so exceptions are thrown, and program simply doesn't respond after clicking "Submit" button	Check the input and display an error message	Black Box	S3
46	In ModifyEvaluationScreen, input empty percent weight causes exception but no message is displayed in GUI, the program stays on the ModifyEvaluationScreen	A message is displayed indicating invalid input	Input is not checked so exceptions are thrown, and program simply doesn't respond after clicking "Submit" button	Check the input and display an error message	Black Box	S3
47	In ModifyEvaluationScreen, input percent weight with non-integer causes exception but no message is displayed in GUI, the program stays on the ModifyEvaluationScreen	A message is displayed indicating invalid input	Input is not checked so exceptions are thrown, and program simply doesn't respond after clicking "Submit" button	Check the input and display an error message	Black Box	S3
48	In ModifyEvaluationScreen, input percent weight with integer but not a valid integer between 0 and 100, no error message is displayed and an evaluation can be modified.	A message is displayed indicating invalid input. The evaluation can't be modified.	Input is not checked and the program modified an evaluation based on invalid percent weight.	Check the input and display an error message	Black Box	S2
49	In ModifyEvaluationScreen, input empty deadline date causes exception but no message is displayed in GUI, the program stays on the ModifyEvaluationScreen	A message is displayed indicating invalid input	Input is not checked so exceptions are thrown, and program simply doesn't respond after clicking "Submit" button	Check the input and display an error message	Black Box	S3
50	In ModifyEvaluationScreen, input deadline date with non-date format causes exception but no message is displayed in GUI, the program stays on the ModifyEvaluationScreen	A message is displayed indicating invalid input	Input is not checked so exceptions are thrown, and program simply doesn't respond after clicking "Submit" button	Check the input and display an error message	Black Box	S3
51	In ModifyEvaluationScreen, when entering the screen the second time, all the textfields are filled with text content the user typed last time	All the textfields in the ModifyEvaluationScreen are cleared when switching to another screen.	All the textfields in the ModifyEvaluationScreen are not cleared when switching to another screen.	Clear all the textfields (use method setText) in ModifyEvaluationScreen when switching to another	Black Box	S3

				screen.		
52	In EnterScoreScreen, selecting empty RoundName and clicking submit causes exception but no message is displayed in GUI	A message is displayed indicating invalid input	Input is not checked so exceptions are thrown, and program simply doesn't respond after clicking "Submit" button	Check the input and display an error message	Black Box	S3
53	In EnterScoreScreen, selecting empty EvaluationType and clicking submit causes exception but no message is displayed in GUI	A message is displayed indicating invalid input	Input is not checked so exceptions are thrown, and program simply doesn't respond after clicking "Submit" button	Check the input and display an error message	Black Box	S3
54	In EnterScoreScreen, selecting empty ContestantID and clicking submit causes exception but no message is displayed in GUI	A message is displayed indicating invalid input	Input is not checked so exceptions are thrown, and program simply doesn't respond after clicking "Submit" button	Check the input and display an error message	Black Box	S3
55	In EnterScoreScreen, input empty score causes exception but no message is displayed in GUI, the program stays on the EnterScoreScreen	A message is displayed indicating invalid input	Input is not checked so exceptions are thrown, and program simply doesn't respond after clicking "Submit" button	Check the input and display an error message	Black Box	S3
56	In EnterScoreScreen, input score with non-integer causes exception but no message is displayed in GUI, the program stays on the EnterScoreScreen	A message is displayed indicating invalid input	Input is not checked so exceptions are thrown, and program simply doesn't respond after clicking "Submit" button	Check the input and display an error message	Black Box	S3
57	In EnterScoreScreen, input score with integer but not a valid integer between 0 and 100, no error message is displayed and score can be entered.	A message is displayed indicating invalid input. The score can't be entered.	Input is not checked and the program entered a score based on invalid score.	Check the input and display an error message	Black Box	S2
58	In EnterScoreScreen, when entering the screen the second time, all the textfields are filled with text content the user typed last time	All the textfields in the EnterScoreScreen are cleared when switching to another screen.	All the textfields in the EnterScoreScreen are not cleared when switching to another screen.	Clear all the textfields (use method setText) in ModifyEvaluationScreen when switching to another screen.	Black Box	S3

59	In JudgeReportOfContestantsAndScoresScreen, if connection with database failed, the program crashes internally without prompting user with error message	When connection fails, user should be notified	User is not notified of the failure	Handle the exception by pop up a notification	Black Box	S1
60	In JudgeReportOfRoundsScreen, if connection with database failed, the program crashes internally without prompting user with error message	When connection fails, user should be notified	User is not notified of the failure	Handle the exception by pop up a notification	Black Box	S1
61	In JudgeEnterScoreScreen, if connection with database failed, the program crashes internally without prompting user with error message	When connection fails, user should be notified	User is not notified of the failure	Handle the exception by pop up a notification	Black Box	S1
62	In JudgeModifyAnEvaluationScreen, if connection with database failed, the program crashes internally without prompting user with error message	When connection fails, user should be notified	User is not notified of the failure	Handle the exception by pop up a notification	Black Box	S1
63	In JudgeCreateAnEvaluationScreen, if connection with database failed, the program crashes internally without prompting user with error message	When connection fails, user should be notified	User is not notified of the failure	Handle the exception by pop up a notification	Black Box	S1
64	In JudgeAssignContestantToRoundScreen, if connection with database failed, the program crashes internally without prompting user with error message	When connection fails, user should be notified	User is not notified of the failure	Handle the exception by pop up a notification	Black Box	S1
65	In JudgeModifyARoundScreen, if connection with database failed, the program crashes internally without prompting user with error message	When connection fails, user should be notified	User is not notified of the failure	Handle the exception by pop up a notification	Black Box	S1
66	In JudgeCreateARoundScreen,	When connection fails, user should be notified	User is not notified of the failure	Handle the exception by	Black Box	S1

	if connection with database failed, the program crashes internally without prompting user with error message			pop up a notification		
67	In ContestantReportOfRoundsScreen, if connection with database failed, the program crashes internally without prompting user with error message	When connection fails, user should be notified	User is not notified of the failure	Handle the exception by pop up a notification	Black Box	S1
68	In ContestantReportOfScoresScreen, if connection with database failed, the program crashes internally without prompting user with error message	When connection fails, user should be notified	User is not notified of the failure	Handle the exception by pop up a notification	Black Box	S1
69	In ContestantCalendarOfEvaluationsScreen, if connection with database failed, the program crashes internally without prompting user with error message	When connection fails, user should be notified	User is not notified of the failure	Handle the exception by pop up a notification	Black Box	S1
70	In LoginScreen, if connection with database failed, the program crashes internally without prompting user with error message	When connection fails, user should be notified	User is not notified of the failure	Handle the exception by pop up a notification	Black Box	S1
71	In JudgeReportOfRoundsScreen, the table can be edited	The table should not be edited	The table can be edited	Disable editable for table cells	Black Box	S3
72	In JudgeReportOfContestantsAndScoresScreen, the table can be edited	The table should not be edited	The table can be edited	Disable editable for table cells	Black Box	S3
73	In ContestantCalendarOfEvaluationsScreen, the table can be edited	The table should not be edited	The table can be edited	Disable editable for table cells	Black Box	S3
74	In ContestantReportOfScoresScreen, the table can be edited	The table should not be edited	The table can be edited	Disable editable for table cells	Black Box	S3
75	In ContestantReportOfRoundsScreen, the table can be edited	The table should not be edited	The table can be edited	Disable editable for table cells	Black Box	S3

76	In JudgeCreateAnEvaluationScreen, the program allows user to continue creating evaluations when the sum of percentweight of all evaluations for the same round and type is equal to 100	The program should not allow user to create a new evaluation for a certain round & type combination if the sum of percentweight of all evaluations for this combination is equal to 100	The program allows user to create a new evaluation for a certain round & type combination if the sum of percentweight of all evaluations for this combination is equal to 100	Add a query statement to calculate all previous percentweight	Black Box	S2
77	In JudgeCreateAnEvaluationScreen the program allows user to enter any percentweight so that the sum of percentweight of all previous evaluations for this Round & Type combination and current percentweight might be more than 100	The program should prompt user to enter the percentweight so that the sum of percentweight of all previous evaluations for this Round & Type combination and current percentweight might be more than 100	The program allows user to enter the percentweight so that the sum of percentweight of all previous evaluations for this Round & Type combination and current percentweight might be more than 100	Add a query statement to calculate all previous percentweight and add a function to calculate the total percentweight	Black Box	S2
78	In JudgeModifyAnEvaluationScreen the program allows user to enter any percentweight so that the sum of percentweight of all previous evaluations for this Round & Type combination and current percentweight might be more than 100	The program should prompt user to enter the percentweight so that the sum of percentweight of all previous evaluations for this Round & Type combination and current percentweight might be more than 100	The program allows user to enter the percentweight so that the sum of percentweight of all previous evaluations for this Round & Type combination and current percentweight might be more than 100	Add a query statement to calculate all previous percentweight and add a function to calculate the total percentweight	Black Box	S2
79	In JudgeCreateAnEvaluationScreen, percent weight can be 0	Percent weight should not be 0	Percent weight can be 0	Add a validation check before submitting the input data to database	Black Box	S3
80	In JudgeModifyAnEvaluationScreen, percent weight can be 0	Percent weight should not be 0	Percent weight can be 0	Add a validation check before submitting	Black Box	S3

				the input data to database		
81	In JudgeCreateAnEvaluationScreen, percent weight can accept negative value	Percent weight should not be negative	Percent weight can be negative	Add a validation check before submitting the input data to database	Black Box	S2
82	In JudgeModifyAnEvaluationScreen, percent weight can accept negative value	Percent weight should not be negative	Percent weight can be negative	Add a validation check before submitting the input data to database	Black Box	S2
83	In LoginScreen judges' username and password can be the same as contestants' username and password	Judge table and Contestants table should not have the same username	Judge table and Contestants table can have the same usernames	Change the records that have the same username	White Box	S3
84	In EnterScoreScreen user can input a number less than 0	Should prompt user to enter a less than 100 but more than 0 value	It will allow user to enter a less than 0 value	Add a if statement to check the input textfield	Black Box	S2
85	In EnterScoreScreen user can input a number more than 100	Should prompt user to enter a less than 100 but more than 0 value	It will allow user to enter a more than 100 value	Add a if statement to check the input textfield	Black Box	S2
86	In LoginScreen, if both "Judge" and "Contestant" button are not selected, the user will by default log in as "Contestant"	User must specify "Judge" or "Contestant", otherwise clicking "Log in" button should give no response	User logs in by default as "Contestant"	Add a check to make sure user select a log in type	Black Box	S3
87	In JudgeReportOfContestantsAndScoresScreen, records are not sorted by score	Records should be sorted by score	Records are not sorted by score	Sort the array holding records before adding them to table	Black Box	S3
88	In JudgeReportOfContestantsAndScoresScreen, some score	All scores should be between 0 and 100 inclusively	Scores of the type "Current Final Score" are greater than 100	When calculating "Current	Black Box	S2

	appears to be greater than 100			Final Score", don't forget to divide 100 for all the percentages		
89	In JudgeReportOfRoundsScreen , not all rounds created by the current logged in Judge are shown	All rounds created by current Judge should be shown	Only part of them are shown, and some shown record should not appear	In the underlying query, change the direction of join	Black Box	S2
90	In JudgeEnterScoreScreen, rounds not created by the current logged in Judge are shown	Only rounds created by current Judge should be shown	All rounds are shown	In the underlying query, eliminate unwanted records by adding WHERE statement	Black Box	S2
91	In JudgeModifyAnEvaluationScreen, rounds not created by the current logged in Judge are shown	Only rounds created by current Judge should be shown	All rounds are shown	In the underlying query, eliminate unwanted records by adding WHERE statement	Black Box	S2
92	In JudgeCreateAnEvaluationScreen, rounds not created by the current logged in Judge are shown	Only rounds created by current Judge should be shown	All rounds are shown	In the underlying query, eliminate unwanted records by adding WHERE statement	Black Box	S2
93	In JudgeAssignContestantToRoundScreen, rounds not created by the current logged in Judge are shown	Only rounds created by current Judge should be shown	All rounds are shown	In the underlying query, eliminate unwanted records by adding WHERE statement	Black Box	S2

94	In JudgeModifyARoundScreen, rounds not created by the current logged in Judge are shown	Only rounds created by current Judge should be shown	All rounds are shown	In the underlying query, eliminate unwanted records by adding WHERE statement	Black Box	S2
95	In JudgeReportOfContestantsAndScoresScreen, rounds not created by the current logged in Judge are shown	Only rounds created by current Judge should be shown	All rounds are shown	In the underlying query, eliminate unwanted records by adding WHERE statement	Black Box	S2
96	In JudgeModifyAnEvaluationScreen, Evaluation Type shows repeating records	No repeating records should appear	Repeating records appear	In the underlying query, eliminate unwanted records by adding WHERE statement	Black Box	S2
97	In JudgeModifyAnEvaluationScreen, evaluations that are pass due can be modified	When an evaluation passes the deadline, it shouldn't be able to be modified	Evaluations can be modified anyways	Add a validation check before submitting the input data to database	Black Box	S2
98	In JudgeModifyAnEvaluationScreen, changing percent weight modifies the percent weight of all evaluations	Only selected evaluation should be modified	All evaluations are modified	In the underlying query, eliminate unwanted records by adding WHERE statement	Black Box	S2
99	In ContestantReportOfScoresScreen, not all evaluations of the logged in contestant are	All evaluations of current contestant should be shown	Some evaluations are not shown	Watch the counter in the loop that displays	Black Box	S2

	shown			query results		
100	In ContestantReportOfRoundsScreen, there appear records of rounds that the logged in contestant is not enrolled in	There should only be records of rounds in which the contestant is enrolled	Unenrolled rounds show up in table	In the underlying query, eliminate unwanted records by joining tables of Round and Enrollment	Black Box	S2
101	In ContestantReportOfScoresScreen, some score appears to be greater than 100	All scores should be between 0 and 100 inclusively	Scores of the type "Current Final Score" are greater than 100	When calculating "Current Final Score", don't forget to divide 100 for all the percentages	Black Box	S2
102	In ContestantCalendarOfEvaluationsScreen, there are repeated combination of rounds and evaluation type	Each combination should only appear once	Each combination appears more than once	In the underlying query, eliminate the repetition by add restrictions when joining tables of Round and Enrollment	Black Box	S2