Testing

1 - Test Plan

1.1 Detailed Test Plan

Normal Data

Tests highlighted in red have been omitted due to changes made to the system during impracticalities in the implementation stage.

Test Series and Number	Purpose	Description	Expected Result/ Reason for Omission	Annotation Reference
1.1	Check system main menu 'score new match' button functions properly	The input form for team names should load when the 'score new match' button is clicked on	The enter scorecard page will be displayed.	Figures 1a, 1b
1.2	Check that 'confirm' button on team names input form functions correctly	The input form for batting team should load when the 'confirm' button is clicked on	Page has been removed due to change to inserting all data in one form.	
1.3	Check that 'confirm' button on batting team input form functions correctly	The input form for maximum number of overs per innings should load when the 'confirm' button is clicked on	Page has been removed due to change to inserting all data in one form.	
1.4	Check that 'confirm' button on maximum number of overs input form functions correctly	The input form for new batsman name should load when the 'confirm' button is clicked on	Page has been removed due to change to inserting all data in one form.	
1.5	Check that 'confirm' button on batsman's name input form functions correctly	The input form for new bowler name should load when the 'confirm' button is clicked on	Page has been removed due to change to inserting all data in one form.	
1.6	Check that 'confirm' button on bowler's name input form functions correctly	The input form for ball result name should load when the 'confirm' button is clicked on	Page has been removed due to change to inserting all data in one form.	
1.7	Check that 'confirm' button on ball result input form functions	The scoresheet should update when the 'confirm' button is	Page has been removed due to change to inserting	

	correctly	clicked on	all data in one	
1.8	Check that ball result of wicket causes dismissal method input form to be displayed	The dismissal method form should load when a ball result of wicket is entered.	Form. Page has been removed due to change to inserting all data in one form.	
1.9	Check that dismissal method of run out causes dismissed batsman input form to be displayed	The dismissed batsman form should load when a dismissal method of run out is entered.	Page has been removed due to change to inserting all data in one form.	
1.10	Check that all other dismissal methods cause new batsman input form to be displayed	The new batsman form should load when a dismissal method of bowled is entered.	Page has been removed due to change to inserting all data in one form.	
1.11	Check that end of over causes new bowler number form to be displayed.	When six legal balls have been bowled in an over, the new bowler number form should display.	Page has been removed due to change to inserting all data in one form.	
1.12	Check system main menu 'view previous scorecards button functions properly	The input form for scorecard choice should load when the 'view previous scorecards button is clicked on	Scorecard choice input form will appear	
1.13	Check view previous scorecards form 'view' button functions properly	The scorecard choice should load when the 'view button is clicked on	Relevant scorecard will appear	
1.14	Check system main menu 'view player database button functions properly	The player database menu should load when the 'view player database button is clicked on	Player database menu will appear	
1.15	Check player database menu "view batting statistics" button functions properly	The batting stats query form should appear when "view batting statistics" button is clicked.	The batting stats query form will appear.	
1.16	Check player database menu "view bowling statistics" button functions properly	The bowling stats query form should appear when "view bowling statistics" button is clicked.	The bowling stats query form will appear.	
1.17	Check player database menu "view fielding statistics" button functions properly	The fielding stats query form should appear when "view fielding statistics" button is clicked.	The fielding stats query form will appear.	

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reasonable minimum reasonable number of have played 5 or	2.6		- C		
		reasonable minimum	reasonable number of	have played 5 or	

	number of matches played will be acceptable in the fielding query.	matches, a page of fielding stats should display.	more matches' stats will be displayed.	
3.1	Check module GetTeamNames stores team names to correct variables.	The entered team names should be stored in the correct HomeTeam or AwayTeam variables.	Module not present from system due to removal of ball by ball match processing from system due to the limitations of web based applications.	
3.2	Check module GetBatsmanName stores batsmen names to correct variables.	The entered batsman name should be stored in the correct position in the batsman names array.	Module not present from system due to removal of ball by ball match processing from system due to the limitations of web based applications.	
3.3	Check module GetBowlerName stores bowlers' names to correct variables.	The entered bowler name should be stored in the correct position in the bowler names array.	Module not present from system due to removal of ball by ball match processing from system due to the limitations of web based applications.	
3.4	Check module GetFielderName stores fielders' names to correct variables.	The entered fielder name should be stored in the correct position in the fielder names array.	Module not present from system due to removal of ball by ball match processing from system due to the limitations of web based applications.	
3.5	Check module GetNoofOvers stores number of overs to correct variable.	The entered number of overs should display in the remaining overs section of the scorecard.	Module not present from system due to removal of ball by ball match processing from system due to the limitations of web based applications.	
3.6	Check module GetBallResult stores result to correct variable.	The scorecard should be updated incorporating the result of the most recent ball.	Module not present from system due to removal of ball by ball match processing from system due to the	

			limitations of web	
			based applications.	
3.7	Check module	The scorecard should be	Module not present	
3.7	GetDismissalMethod		-	
	stores result to	updated with the dismissal method.	from system due to	
		disillissai illetilod.	removal of ball by	
	correct variable.		ball match	
			processing from	
			system due to the	
			limitations of web	
2.0	C1 1 1 1	771 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	based applications.	
3.8	Check module	The selected batsman	Module not present	
	GetDismissedBatsm	should be shown as 'out'	from system due to	
	an stores result to	on the scorecard.	removal of ball by	
	correct variable.		ball match	
			processing from	
			system due to the	
			limitations of web	
			based applications.	
3.9	Check module	The selected team's	Module not present	
	GetBattingTeam	name should be	from system due to	
	stores result to	displayed as the batting	removal of ball by	
	correct variable.	team.	ball match	
			processing from	
			system due to the	
			limitations of web	
			based applications.	
3.10	Check module	The selected bowler	Module not present	
	GetNextBowler	should be displayed as	from system due to	
	stores result to	the current bowler.	removal of ball by	
	correct variable.		ball match	
			processing from	
			system due to the	
			limitations of web	
			based applications.	
4.1	Check batsman	The strike rate displayed	The batsman's	Figures 5a,
	strike rate calculated	should be equal to (runs	strike rate should	5b
	correctly	scored/balls faced) *100	be displayed on	
			batting stats page.	
4.2	Check total score	The score should be	The total score	
	calculated correctly.	equal to the sum of the	should be displayed	
		batsmen's scores + the	on the view	
		total extras.	scorecard page.	
4.3	Check overs	Overs remaining should	Algorithm not	
	remaining calculated	be equal to overs in	present in system	
	correctly.	innings – overs bowled.	due to removal of	
			ball by ball match	
			processing from	
			system due to the	
			limitations of web	
			based applications.	
			based applications.	

4.4	Chaolz innings man	Inninga min rota abauld	Algorithm not	
4.4	Check innings run	Innings run rate should	Algorithm not	
	rate calculated	be equal to total	present in system	
	correctly.	score/overs bowled.	due to removal of	
			ball by ball match	
			processing from	
			system due to the	
			limitations of web	
			based applications.	
4.5	Check required run	Required run rate should	Algorithm not	
	rate calculated	be equal to truns	present in system	
	correctly.	required/overs	due to removal of	
		remaining.	ball by ball match	
			processing from	
			system due to the	
			limitations of web	
			based applications.	
4.6	Check runs required	Runs required should be	Algorithm not	
	calculated correctly.	equal to first innings	present in system	
		score – total score of this	due to removal of	
		innings.	ball by ball match	
		8-1	processing from	
			system due to the	
			limitations of web	
			based applications.	
4.7	Check partnerships	Partnership should be	Algorithm not	
1.7	are calculated	equal to total score –	present in system	
	correctly.	score at time of last	due to removal of	
	correctly.	wicket.	ball by ball match	
		wicket.	processing from	
			system due to the	
			limitations of web	
			based applications.	
4.8	Check bowling	Poveling average should	The bowling	
4.0	averages calculated	Bowling average should be equal to runs	averages should be	
	correctly.	conceded/wickets taken.		
	conechy.	conceded/wickets taken.	displayed correctly	
			on the bowling	
4.0	Chaple haveling	Economy rate at1.11	stats page.	
4.9	Check bowling	Economy rate should be	The bowling	
	economies	equal to runs conceded/	economies should	
	calculated correctly.	overs bowled.	be displayed	
			correctly on the	
4.10	Chapte 11:	Economy: ::-t1 111	bowling stats page.	Eigure C
4.10	Check bowling	Economy rate should be	The bowling strike	Figures 6a,
	strike rates	equal to balls bowled/	rates should be	6b
	calculated correctly.	wickets taken	displayed correctly	
			on the bowling	
		***	stats page.	7: -
5.1	Check that batting	When a query is run a list	If Eaton Socon are	Figures 7a-
	statistics are saved to	of batsmen and their	the batting team	d
	the correct fields.	statistics should be	data entered on the	

		displayed.	scorecard should be	
			stored to the	
			correct fields in the	
			batting	
			performance table.	
5.2	Check that bowling	When a query is run a list	If Eaton Socon are	Figures 9a-f
	statistics are saved to	of bowlers and their	not the batting	
	the correct fields.	statistics should be	team data entered	
		displayed.	on the scorecard	
			should be stored to	
			the correct fields in	
			the bowling	
			performance table.	
5.3	Check that fielding	When a query is run a list	If Eaton Socon are	Figures 9a-f
	statistics are saved to	of fielders and their	not the batting	
	the correct fields.	statistics should be	team data entered	
		displayed.	on the scorecard	
			should be stored to	
			the correct fields in	
			the fielding	
			performance table.	
6.1	Check that score	Score a match and view	Details of the	
	cards are saved	the score card using the	relevant match will	
	successfully for later	drop down match	be displayed under	
	viewing by user.	selection on the	the correct	
		scorecard menu page	headings in the	
		afterwards.	scorecard.	
7.1	Check that the	Score a match and	The client's	
	system fulfils it	attempt to use all	specification will	
	specification	facilities in the system.	be fulfilled.	

Erroneous

Tests omitted due to alterations to system during implementation phase shown in red.

Test Series and Number	Purpose	Description	Expected Result/Reason for Omission	Annotation Reference
2.1	Test validation functions correctly on team name entry.	An error should be returned if more than 40 characters are entered or the box is left blank.	The validation will return an error.	
2.2	Test validation functions correctly on player name entry.	An error should be returned if more than 40 characters are entered or the box is left blank.	The validation will return an error.	
2.3	Test validation functions correctly on max no. of overs	An error should be returned if the number entered is outside of the	Data input not required in system due to removal of	

	entry.	range 20 to 90.	ball by ball match processing from system due to the limitations of web based applications.	
2.4	Test validation functions correctly on min. number of innings played entry.	An error should be reported if the min no. of innings played is not between 1 and 40	The validation will return an error.	Figures 9a,9b
2.5	Test validation functions correctly on min. number of overs bowled entry.	An error should be reported if the min no. of overs bowled is not between 1 and 500	The validation will return an error.	
2.6	Test validation functions correctly on min. number of matches played entry.	An error should be reported if the min no. of matches played is not between 1 and 40	The validation will return an error.	

Extreme/Boundary

Tests which have been omitted due to alterations to system during the implementation phase are shown in red.

Test Series and Number	Purpose	Description	Expected Result/ Reason for Omission	Annotation reference
2.1	Test validation functions correctly on team name entry.	An error should be returned if more than 40 characters are entered or the box is left blank.	The validation will return an error for the test data outside the boundary but accept the pieces within them.	
2.2	Test validation functions correctly on player name entry.	An error should be returned if more than 40 characters are entered or the box is left blank.	The validation will return an error for the test data outside the boundary but accept the pieces within them.	
2.3	Test validation functions correctly on max no. of overs entry.	An error should be returned if the number entered is outside of the range 20 to 90.	Data input not required in system due to removal of ball by ball match processing from system due to the limitations of web based applications.	
2.4	Test validation functions correctly	An error should be reported if the min no. of	The validation will return an error for	

	on min. number of	innings played is not	the test data outside	
	innings played entry.	between 1 and 40	the boundary but	
			accept the pieces	
			within them.	
2.5	Test validation	An error should be	The validation will	Figures 11a,
	functions correctly	reported if the min no. of	return an error for	11b
	on min. number of	overs bowled is not	the test data outside	
	overs bowled entry.	between 1 and 500	the boundary but	
			accept the pieces	
			within them.	
2.6	Test validation	An error should be	The validation will	
	functions correctly	reported if the min no. of	return an error for	
	on min. number of	matches played is not	the test data outside	
	matches played	between 1 and 40	the boundary but	
	entry.		accept the pieces	
			within them.	

1.2 Changes to Test Plan

Due to several adaptations made to my system during the implementation phase some adjustments need to be made to my testing plan. The following table shows a list of the further tests I need to complete:

Normal

Test	Test Purpose and	Test Description	Expected Result	Annotation
Number	Justification for			Reference
	Change to Original			
	Plan			
2.7	Check validation	Enter a set of normal	Normal data will	
	functions properly	data.	be accepted.	
	on entry of batsmen			
	scores. Required as			
	individual scores are			
	no longer going to			
	be calculated by the			
	system.			
2.8	Check validation	Enter a set of normal	Normal data will	
	functions properly	data.	be accepted.	
	on entry of balls		_	
	faced by each			
	batsman. Required			
	as the number of			
	balls faced is no			
	longer going to be			
	calculated by the			
	system.			
2.9	Check validation on	Bowler actions must only	The data will be	
	bowler action	be chosen for selected	accepted.	
	entries. This test was	types of dismissal. Enter	_	

	overlooked on my	a bowler action for a		
2.10	original test plan. Check validation on bowler overs entries. Required as the number of overs bowled is no longer going to be calculated by the system.	Enter a set of normal data.	Normal data will be accepted.	Figures 4a, 4b
2.11	Check validation on bowler maidens entries. Required as the number of maidens is no longer going to be calculated by the system.	Enter a set of normal data.	Normal data will be accepted.	Figures 4a, 4b
2.12	Check validation on bowler runs conceded entries. Required as the number of runs conceded is no longer going to be calculated by the system.	Enter a set of normal data.	Normal data will be accepted.	Figures 4a, 4b
2.13	Check validation on bowler wickets entries. Required as the number of wickets taken is no longer going to be calculated by the system.	Enter a set of normal data.	Normal data will be accepted.	Figures 4a, 4b

Erroneous

Test	Test Purpose and	Test Description	Expected Result	Annotation
Number	Justification for			Reference
	Change to Original			
	Plan			
2.7	Check validation	Enter a set of erroneous	The validation	
	functions properly	data.	should return an	
	on entry of batsmen		error.	
	scores. Required as			
	individual scores are			
	no longer going to be			
	calculated by the			
	system.			
2.8	Check validation	Enter a set of erroneous	The validation	-

2.9	functions properly on entry of balls faced by each batsman. Required as the number of balls faced is no longer going to be calculated by the system. Check validation on	data. Bowler actions must only	should return an error. The validation	
	bowler action entries. This test was overlooked on my original test plan.	be chosen for selected types of dismissal. Enter a bowler action for a batsman who is run out.	should return an error.	
2.10	Check validation on bowler overs entries. Required as the number of overs bowled is no longer going to be calculated by the system.	Enter a set of erroneous data.	The validation should return an error.	Figures 10a, 10b
2.11	Check validation on bowler maidens entries. Required as the number of maidens is no longer going to be calculated by the system.	Enter a set of erroneous data.	The validation should return an error.	
2.12	Check validation on bowler runs conceded entries. Required as the number of runs conceded is no longer going to be calculated by the system.	Enter a set of erroneous data.	The validation should return an error.	
2.13	Check validation on bowler wickets entries. Required as the number of wickets taken is no longer going to be calculated by the system.	Enter a set of erroneous data.	The validation should return an error.	

Extreme/Boundary

Test	Test Purpose and	Test Description	Expected Result	Annotation
1 400	10001 011 0000 011101	1 000 2 00011pt1011	211900000 11000110	1 111110 00001011

Number	Justification for			Reference
	Change to Original Plan			
2.7	Check validation functions properly on entry of batsmen scores. Required as individual scores are no longer going to be calculated by the system.	Enter one item of data within the boundary and one outside it at both ends of the boundary.	The data within the boundaries will be accepted whilst the data outside the boundaries will return an error.	Figures 12a, 12b
2.8	Check validation functions properly on entry of balls faced by each batsman. Required as the number of balls faced is no longer going to be calculated by the system.	Enter one item of data within the boundary and one outside it at both ends of the boundary.	The data within the boundaries will be accepted whilst the data outside the boundaries will return an error.	
2.9	No extreme test required.			
2.10	Check validation on bowler overs entries. Required as the number of overs bowled is no longer going to be calculated by the system.	Enter one item of data within the boundary and one outside it at both ends of the boundary.	The data within the boundaries will be accepted whilst the data outside the boundaries will return an error.	
2.11	Check validation on bowler maidens entries. Required as the number of maidens is no longer going to be calculated by the system.	Enter one item of data within the boundary and one outside it at both ends of the boundary.	The data within the boundaries will be accepted whilst the data outside the boundaries will return an error.	
2.12	Check validation on bowler runs conceded entries. Required as the number of runs conceded is no longer going to be calculated by the system.	Enter one item of data within the boundary and one outside it at both ends of the boundary.	The data within the boundaries will be accepted whilst the data outside the boundaries will return an error.	
2.13	Check validation on bowler wickets	Enter one item of data within the boundary and	The data within the boundaries will be	

entrie	s. Required as	one outside it at both	accepted whilst the	
the nu	mber of	ends of the boundary.	data outside the	
wicke	ts taken is no		boundaries will	
longer	r going to be		return an error.	
calcul	ated by the			
systen	n.			

2 – Test Data

1.1 Test Data

Normal

Please note inconsistencies in numbering due to removal of tests as explained above.

Test Number	Test Data	Justification for Choice of Test Data
1.1	Click on 'score new match' button	Should result in progress to scorecard input page.
1.12	Click on 'view previous scorecards button	Should result in progress to scorecard menu page
1.13	Click on 'view innings' button	Should result in progress to viewing page of scorecard from that innings.
1.14	Click on 'view player database button	Should result in progress to player database menu page
1.15	Click on "view batting statistics" button	Should result in progress to batting stats query page
1.16	Click on "view bowling statistics" button	Should result in progress to bowling stats query page
1.17	Click on "view fielding statistics" button	Should result in progress to fielding stats query page
1.18	Run a query with a minimum of one innings played.	This value should be accepted by the validation on the field.
1.19	Run a query with a minimum of one over bowled.	This value should be accepted by the validation on the field.
1.20	Run a query with a minimum of one match played.	This value should be accepted by the validation on the field.
1.21	Click on a player's "view" button	Should result in progress to individual player's stats page
2.1	Enter a string of less than 40 chars, e.g. England	This value should be accepted by the validation on the field.
2.2	Enter a string of less than 20 chars, e.g. M.Prior	This value should be accepted by the validation on the field.
2.4	Enter a number between 1 and 40, e.g. 5	This value should be accepted by the validation on the field.
2.5	Enter a number between 1 and 500, e.g. 20	This value should be accepted by the validation on the field.
2.6	Enter a number between	This value should be accepted by the validation

	1 and 40, e.g. 5	on the field.
4.1	Score an innings. Give a player a score of 1 of two balls. View the innings scorecard. Strike rate should be 50 for that player.	The entry of one off two balls is easy to calculate the strike rate for and should be accepted by the validation, therefore is a suitable choice of test data.
4.2	Score an innings, then view it again.	No other way to find out if the total score is being calculated correctly. It should be displayed on the scorecard viewing page.
4.8	Give a bowler figures of two wickets for twenty runs. View scorecard from innings. That bowler's average should be ten.	The entry of two wickets for twenty runs is easy to calculate the average for and should be accepted by the validation, therefore is a suitable choice of test data.
4.9	Give a bowlerfigures of two overs for ten runs. View scorecard from innings. That bowler's econmomy should be five.	The entry of ten runs off two overs is easy to calculate the economy for and should be accepted by the validation, therefore is a suitable choice of test data.
4.10	Give a bowler figures of two wickets off one over.View scorecard from innings. That bowler's strike rate should be three.	The entry of two wickets from an over is easy to calculate the strike rate for and should be accepted by the validation, therefore is a suitable choice of test data.
5.1	Enter a complete innings of normal data with batting team as Eaton Socon.	All batting data should be visible under the correct headings in the batting performance table when viewed in phpmyadmin if the data supplied is all within the validation limits.
5.2	Enter a complete innings of normal data with batting team not Eaton Socon.	All bowling data should be visible under the correct headings in the bowling performance table when viewed in phpmyadmin if the data supplied is all within the validation limits.
5.3	Enter a complete innings of normal data with batting team not Eaton Socon.	All fielding data should be visible under the correct headings in the fielding performance table when viewed in phpmyadmin if the data supplied is all within the validation limits.
6.1	Score an innings. From main menu, select view previous scorecards. Select the scorecard of the match to be viewed.	This is the only method by which the display of previous innings can be tested. All data entered must be within validation limits for effective testing.
7.1	Score a match and view score cards and database from that game.	This is the only method by which to evaluate if the system fulfils the client's specification.

Erroneous

Please note inconsistencies in numbering result from changes to system during implementation phase as described above.

Test Number	Test Data	Justification for Choice of Test Data
2.1	۲)	The field should not accept a blank entry.
	'amananana	
	Amansjjasjsa	This should be too many characters to be
	Asdhsbfsdf	accepted by the validation.
	Hjsdfilsdhfvd	
	Hfwehewffgd	
	Iuhsfeherhtho'	
2.2	۲,	The field should not accept a blank entry.
	ʻalsksjdhsjk	
	Shansbdhgsg'	This should be too many characters to be
		accepted by the validation.
2.4	·-23 [°]	The first item should not be accepted by the
	78	validation as it is negative whilst the second item
		should not be accepted as it is too large.
2.5	`-23 `	The first item should not be accepted by the
	'897'	validation as it is negative whilst the second item
		should not be accepted as it is too large.
2.6	·-23 [°]	The first item should not be accepted by the
	' 897'	validation as it is negative whilst the second item
		should not be accepted as it is too large.

Extreme/Boundary

Please note inconsistencies in numbering result from changes to system during implementation phase as described above.

Test Number	Test Data	Justification for Choice of Test Data
2.1	40 chars	The two items lie either side of the validation
	41 chars	boundary. The first should be accepted and the
		second shouldn't.
2.2	20 chars	The two items lie either side of the validation
	21 chars	boundary. The first should be accepted and the
		second shouldn't.
2.4	40	The two items lie either side of the validation
	41	boundary. The first should be accepted and the
		second shouldn't.
2.5	500	The two items lie either side of the validation
	501	boundary. The first should be accepted and the
		second shouldn't.
2.6	40	The two items lie either side of the validation
	41	boundary. The first should be accepted and the
		second shouldn't.

1.2 Changes to Test Data

The following table shows changes to my test data required due to alterations to my system made during the implementation phase. The table also contains the data which will be used for the new tests I have proposed in section 1.2.

Normal

Test Number	Test Data	Justification for Choice of Test Data
2.7	34	This is a piece of data within the boundary set in
		the validation.
2.8	65	This is a piece of data within the boundary set in
		the validation.
2.9	How Out = Caught	A bowler action is required for storage of a
	Bowler Action = Right	caught dismissal and therefore this an appropriate
	Arm Spin	normal set of data.
2.10	8.5	This is a piece of data within the boundary set in
		the validation. It will also test that the validation
		accepts decimals.
2.11	2	This is a piece of data within the boundary set in
		the validation.
2.12	52	This is a piece of data within the boundary set in
		the validation.
2.13	5	This is a piece of data within the boundary set in
		the validation.

Erroneous

Test Number	Test Data	Justification for Choice of Test Data
2.7	10000	These items of data will ensure that the score
	-10	field rejects items larger than the validation limit,
	35.6	negative numbers, decimals and strings, theerfore
	hello	ensuring the system is robust.
2.8	10000	These items of data will ensure that the score
	-10	field rejects items larger than the validation limit,
	35.6	negative numbers, decimals and strings, theerfore
	hello	ensuring the system is robust.
2.9	How Out = Run Out	This will check that a bowler action is not
	Bowler Action = Right	accepted for run out dismissals therefore ensuring
	Arm Spin	that the system is robust and preventing storage
		of inaccurate data.
2.10	400	These items of data will ensure that the score
	-10	field rejects items larger than the validation limit,
	hello	negative numbers and strings, theerfore ensuring
		the system is robust.
2.11	400	These items of data will ensure that the score
	-10	field rejects items larger than the validation limit,
	35.6	negative numbers, decimals and strings, theerfore
	hello	ensuring the system is robust.
2.12	100	These items of data will ensure that the score
	-10	field rejects items larger than the validation limit,
	35.6	negative numbers, decimals and strings, theerfore
	hello	ensuring the system is robust.
2.13	400	These items of data will ensure that the score

-1	10	field rejects items larger than the validation limit,
3	5.6	negative numbers, decimals and strings, theerfore
h	ello	ensuring the system is robust.

Extreme/Boundary

Test Number	Test Data	Justification for Choice of Test Data
2.7	-1	These items of data provide tests for both the
	0	upper and lower boundaries. Each boundary has
	999	an item of data just within the boundary and one
	1000	just outside it.
2.8	-1	These items of data provide tests for both the
	0	upper and lower boundaries. Each boundary has
	999	an item of data just within the boundary and one
	1000	just outside it.
2.9	No extreme test required.	
2.10	-1	These items of data provide tests for both the
	0	upper and lower boundaries. Each boundary has
	99	an item of data just within the boundary and one
	100	just outside it.
2.11	-1	These items of data provide tests for both the
	0	upper and lower boundaries. Each boundary has
	99	an item of data just within the boundary and one
	100	just outside it.
2.12	-1	These items of data provide tests for both the
	0	upper and lower boundaries. Each boundary has
	999	an item of data just within the boundary and one
	1000	just outside it.
2.13	-1	These items of data provide tests for both the
	0	upper and lower boundaries. Each boundary has
	10	an item of data just within the boundary and one
	11	just outside it.

3 – Annotated Samples

3.1 – Actual Results

Normal Testing

Test Number	Expected Result	Test Data	Actual Result	Annotation Reference
1.1	The enter scorecard page will be displayed.	Click on 'score new match' button	The enter scorecard page was displayed, as expected.	Figures 1a, 1b
1.12	Scorecard choice input form will appear	Click on 'view previous scorecards button	The scorecard menu page was displayed, as expected.	

1.13	Relevant	Click on	The previous scorecard	
1.13	scorecard will	'view	selected by the user was	
	appear	innings'	displayed, as expected.	
	ирреш	button	displayed, as expected.	
1.14	Player database	Click on	The player database	
1.1.	menu will appear	'view player	menu was displayed, as	
	mena win appear	database	expected.	
		button	ехрестей.	
1.15	The batting stats	Click on	The batting stats query	
	query form will	"view batting	page was displayed, as	
	appear.	statistics"	expected.	
		button		
1.16	The bowling stats	Click on	The bowling stats query	
	query form will	"view	page was displayed, as	
	appear.	bowling	expected.	
		statistics"	-	
		button		
1.17	The fielding stats	Click on	The fielding stats query	
	query form will	"view	page was displayed, as	
	appear.	fielding	expected.	
		statistics"		
		button		
1.18	The list of players	Run a query	The batting stats	
	with batting stats	with a	overview page was	
	will appear.	minimum of	displayed, as expected.	
		one innings		
		played.		
1.19	The list of players	Run a query	The bowling stats	See figures 2a,
	with bowling stats	with a	overview page was	2b
	will appear.	minimum of	displayed, as expected.	
		one over		
1.20	The list of players	bowled.	The fielding state	
1.20	The list of players	Run a query with a	The fielding stats	
	with fielding stats	with a minimum of	overview page was	
	will appear.	one match	displayed, as expected.	
		played.		
1.21	The relevant	Click on a	The individual player's	
1,41	player's stats page	player's	statistics page was	
	will display.	"view"	displayed, as expected.	
	will display.	button	anspiajou, as expected.	
2.1	The validation	Enter a string	The team name England	
	will not return an	of less than	was accepted, as	
	error.	40 chars, e.g.	expected.	
		England	1	
2.2	The validation	Enter a string	The player name M.Prior	
	will not return an	of less than	was accepted as	
	error.	20 chars, e.g.	expected.	
		M.Prior	•	
2.4	All players who	Enter a	All players who have	Figures 3a, 3b

4.8	The bowling	Give a	A bowling average of ten	Figures 6a, 6b
4.2	The total score should be displayed on the view scorecard page.	Score an innings, then view it again.	The total score has been calculated and displayed correctly.	
	be displayed on batting stats page.	a player a score of 1 of two balls. View the innings scorecard. Strike rate should be 50 for that player.		
4.1	The batsman's strike rate should	Score an innings. Give	A strike rate of 50 is displayed as expected.	Figures 5a, 5b
2.13	Normal data will be accepted.	5	Data accepted as expected.	Figures 4a, 4b
2.12	Normal data will be accepted.	52	Data accepted as expected.	Figures 4a, 4b
2.11	Normal data will be accepted.	2	Data accepted as expected.	Figures 4a, 4b
2.10	Normal data will be accepted.	8.5	Data accepted as expected.	Figures 4a, 4b
	accepted.	Caught Bowler Action = Right Arm Spin	expected.	
2.9	be accepted. The data will be	How Out =	Data accepted as	
2.8	be accepted. Normal data will	65	Data accepted as expected.	
2.7	Normal data will	34	Data accepted as	
2.6	All players who have played 5 or more matches' stats will be	Enter a number between 1 and 40, e.g. 5	All players who have played 5 or more matches' stats are displayed as expected.	
2.5	All players who have bowled 20 or more overs stats will be displayed.	Enter a number between 1 and 500, e.g. 20	All players who have bowled 20 or more overs stats are displayed as expected.	
	have played 5 or more innings' stats will be displayed.	number between 1 and 40, e.g. 5	played more than 5 innings are displayed as expected.	

a-d
- 6
a-f
a-f
-

	should be stored to	as batting	table as expected.	
	the correct fields	team.		
	in the bowling			
	performance table.			
5.3	If Eaton Socon are	A normal	All data relating to Eaton	Figures 8a-f
	not the batting	innings	Socon's fielding	
	team data entered	without	performance was stored	
	on the scorecard	Eaton Socon	to the fielding	
	should be stored to	as batting	performance table as	
	the correct fields	team.	expected.	
	in the fielding			
	performance table.			
6.1	Details of the	Score an	That particular innings	
	relevant match	innings.	was displayed with all	
	will be displayed	From main	required information	
	under the correct	menu, select	present under the correct	
	headings in the	view	headings as expected.	
	scorecard.	previous		
		scorecards.		
		Select the		
		scorecard of		
		the match to		
		be viewed.		
7.1	The client's	Score a	Unfortunately the system	
	specification will	match and	has failed to meet some	
	be fulfilled.	view score	of the client's	
		cards and	specifications. This is	
		database	because the	
		from that	implementation of ball	
		game.	by ball match processing	
			proved impossible with	
			my limited skill set, time	
			and resources. Therefore,	
			the conditions of	
			reducing human error	
			and data duplication by	
			having the computer	
			undertake much of the	
			processing have not been	
			realised. However, the	
			system has met the	
			specification objectives	
			of storing matches for	
			eventual viewing by the	
			user and compiling a	
			statistical record for each	
			player.	
	1		pinyor.	

Erroneous

Test	Expected Result	Input Data	Actual Result	Annotation

Number				Reference
2.1	The validation will return an error.	'amananana Amansjjasjsa Asdhsbfsdf Hjsdfilsdhfvd Hfwehewffgd Iuhsfeherhtho'	No errors were returned.	
2.2	The validation will return an error.	'alsksjdhsjk Shansbdhgsg'	No errors were returned.	
2.4	The validation will return an error.	'-23' 78	No errors were returned.	Figures 9a, 9b
2.5	The validation will return an error.	'-23' '897'	No errors were returned.	
2.6	The validation will return an error.	'-23' '897'	No errors were returned.	
2.7	The validation should return an error.	10000 -10 35.6 hello	No errors were returned.	
2.8	The validation should return an error.	10000 -10 35.6 hello	No errors were returned.	
2.9	The validation should return an error.	How Out = Run Out Bowler Action = Right Arm Spin	No errors were returned.	
2.10	The validation should return an error.	400 -10 hello	No errors were returned.	Figures 10a, 10b
2.11	The validation should return an error.	400 -10 35.6 hello	No errors were returned.	
2.12	The validation should return an error.	100 -10 35.6 hello	No errors were returned.	
2.13	The validation should return an error.	400 -10 35.6 hello	No errors were returned.	

Extreme/Boundary

Test	Expected Result	Input Data	Actual Result	Annotation
	Expected Result	Iliput Data	Actual Result	
Number	The validation will	40. 1	NI	Reference
2.1		40 chars	No errors were	
	return an error for	41 chars	returned.	
	the test data			
	outside the			
	boundary but			
	accept the pieces			
	within them.			
2.2	The validation will	20 chars	No errors were	
	return an error for	21 chars	returned.	
	the test data			
	outside the			
	boundary but			
	accept the pieces			
	within them.			
2.4	The validation will	40	No errors were	
2.7	return an error for	40	returned.	
	the test data	71	returned.	
	outside the			
	boundary but			
	accept the pieces			
2.5	within them.	500	N	E' 11 111
2.5	The validation will	500	No errors were	Figures 11a, 11b
	return an error for	501	returned.	
	the test data			
	outside the			
	boundary but			
	accept the pieces			
	within them.			
2.6	The validation will	40	No errors were	
	return an error for	41	returned.	
	the test data			
	outside the			
	boundary but			
	accept the pieces			
	within them.			
2.7	The data within	-1	No errors were	Figures 12a, 12b
	the boundaries will	0	returned.	
	be accepted whilst	999		
	the data outside	1000		
	the boundaries will			
	return an error.			
2.8	The data within	-1	No errors were	
	the boundaries will	0	returned.	
	be accepted whilst	999		
	the data outside	1000		
	the boundaries will			
	return an error.			
2.10	The data within	-1	No errors were	
	THE GAME WILLIAM	-	1.0 011010 11010	I

	the boundaries will be accepted whilst the data outside	0 99 100	returned.	
	the boundaries will return an error.			
2.11	The data within the boundaries will be accepted whilst the data outside the boundaries will return an error.	-1 0 99 100	No errors were returned.	
2.12	The data within the boundaries will be accepted whilst the data outside the boundaries will return an error.	-1 0 999 1000	No errors were returned.	
2.13	The data within the boundaries will be accepted whilst the data outside the boundaries will return an error.	-1 0 10 11	No errors were returned.	

3.2 - Evidence

Normal Testing

Test 1.1



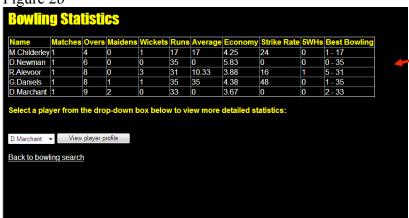
Test 1.19

Figure 2a



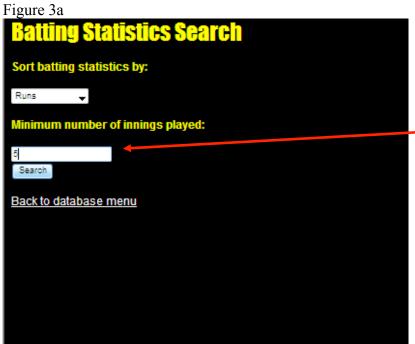
A value of 1 was entered for the minimum no. of overs bowled value and the search button clicked.

Figure 2b



The value of 1 was accepted and the bowling stats page displayed as expected, proving the search button functioned correctly.

Test 2.4



A value of five was entered in the minimum number of innings played box and the search button was clicked.

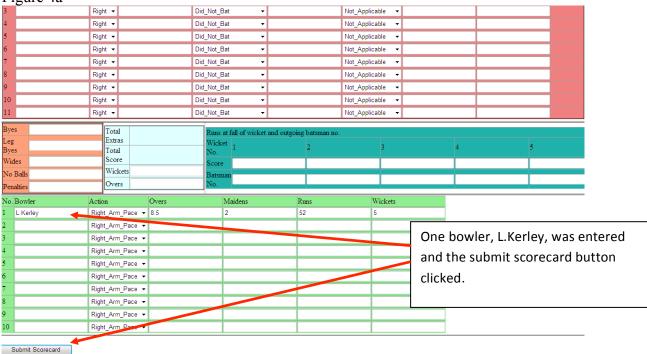
Figure 3b



The batting statistics page was displayed as expected (note that no players were found because nobody on the database had played five innings.

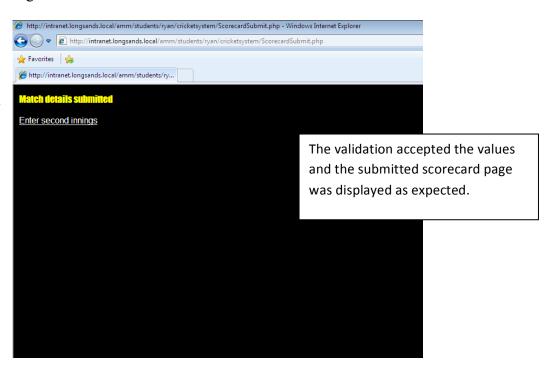
Tests 2.10-2.13

Figure 4a

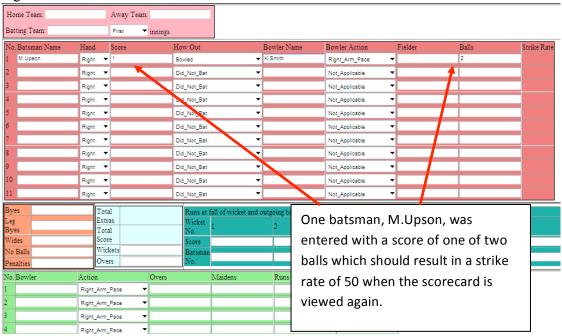


Cancel scorecard entry

Figure 4b



Test 4.1 Figure 5a

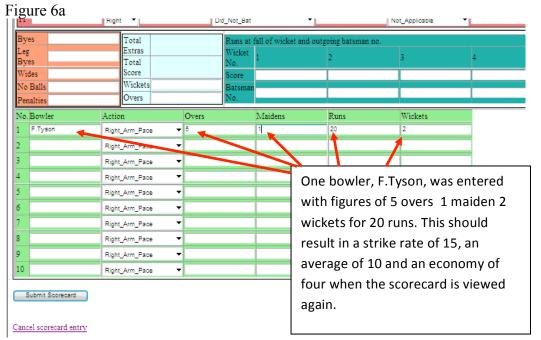


I then submitted the scorecard, returned to the main menu, went to the scorecard menu and selected this innings to view again, resulting in the page below:

Figure 5b

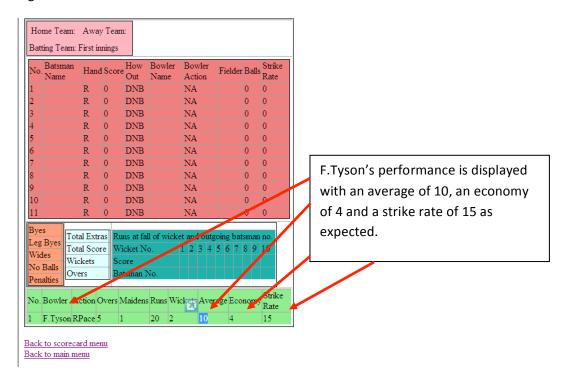


Test 4.8

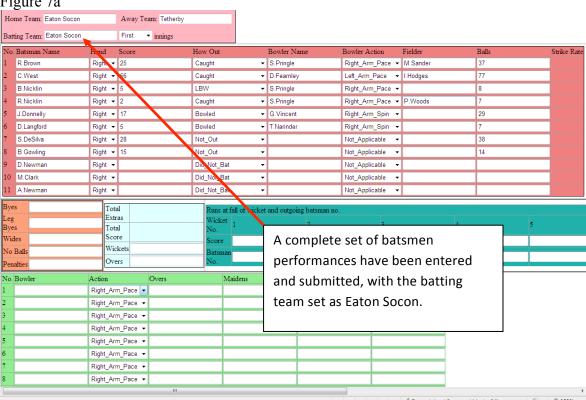


I submitted the scorecard shown in figure 6a, returned to the main menu, then moved to the scorecard menu and selected the innings recorded in figure 6a for viewing, resulting in the page displayed below in figure 6b.

Figure 6b



Test 5.1 Figure 7a



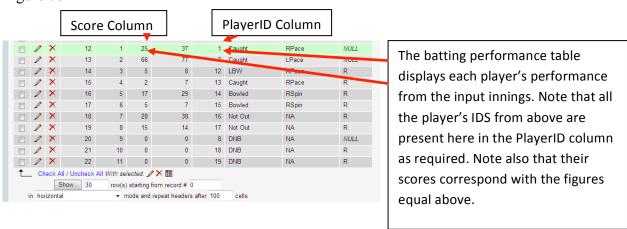
After submitting the scorecard, I minimised the system and went to view the database table player which is shown below in figure 7b.

Figure 7b longsands.local / localhost / ryanb / player | phpMyAdmin 3.1.3-rc1 - Windows Attp://intranet.longsands.local/amm/phpmyadmin/index.php?db=xbc A Favorites 🔠 🔻 🎉 http://intranet.longsands.l... 🎎 intranet.longsands.loca... 🗶 SELECT * FROM `player' LIMIT 0 , 30 phpMyAdmin Database rvanb (12) Show: 30 row(s) starting in horizontal ▼ mode a All of the batsmen have been added ryanb (12) Sort by key: None + Options batsman
battingperformance
bowler
bowlingperformance to the player table as expected. 1 R.Brown Note that R.Brown, C.West and □ ✓ X 2 T.Day ■ extras extras
fallofwickets
fieldingperformance
innings
inningsdetails
player
summary
wicket 3 W.Hall D.Newman were present in the ☐ ✓ × 4 M.Childerley
☐ ✓ × 5 C.Baker table from a previous submission □ ✓ × 6 D.Humphrey / X / X 7 C.West and therefore a new record has not 8 D.Newman ✓ × been created for them. The other 8 9 R.Alevoor 10 D.Marchant players have had new records □ / X 11 G.Daniels 12 B.Nicklin created with PlayerIDs 12 to 21, as 13 R.Nicklin 14 J.Donnelly expected. 15 D.Langford 16 S.DeSilva 17 B.Gowling 18 M.Clark

Next I looked at the batting performance table which is shown below in figure 7c.

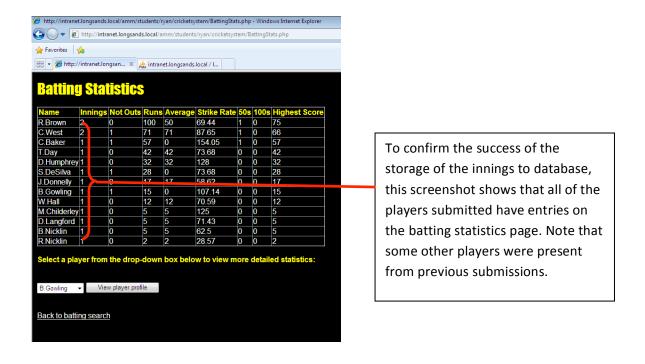
19 A.Newman



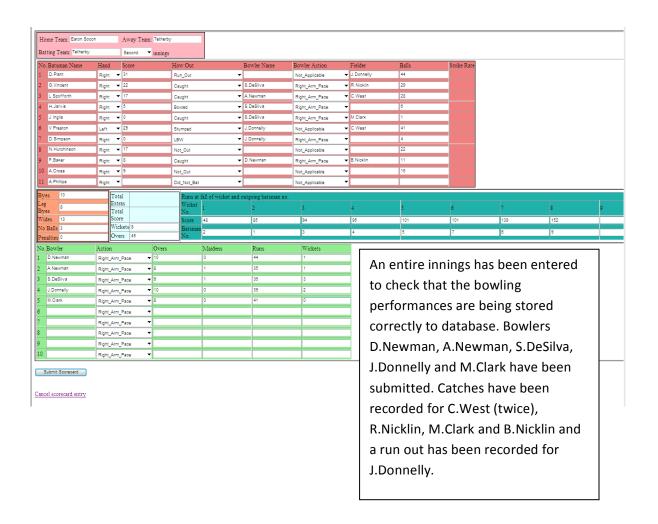


Finally I brought the system back up on screen and viewed the player database. I ran a batting query for players who have played a minimum of one innings, resulting in the page shown below:

Figure 7d



Tests 5.2-5.3 Figure 8a



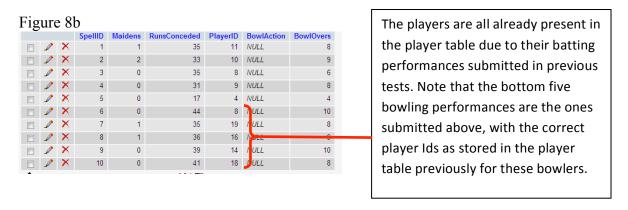


Figure 8c

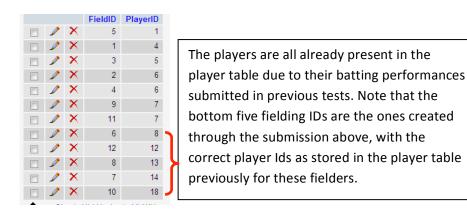


Figure 8d

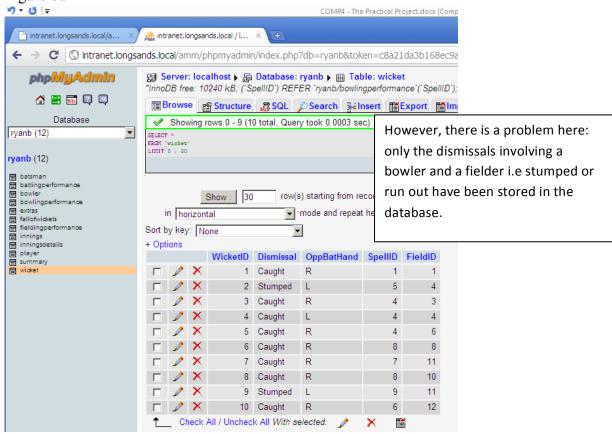


Figure 8e

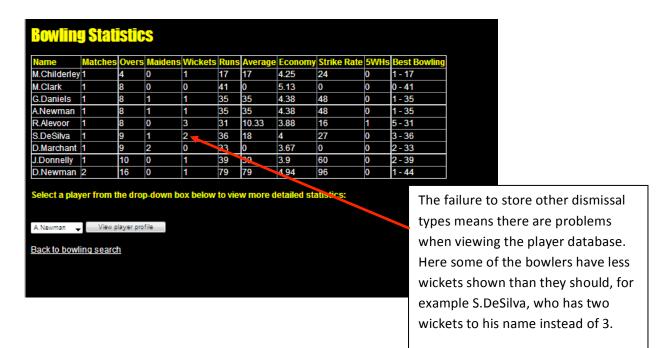


Figure 8f

Name	Matches	Catches	Catches per Match	Run Outs	Run Outs per Match
R.Brown	2	0	0	0	0
D.Newman	2	1	0.5	0	0
C.West	2	1	0.5	0	0
R.Nicklin	1	1	1	0	0
J.Donnelly	1	0	0	0	0
D.Langford	1	0	0	0	2
S.DeSilva	1	0	0	0	0
B.Gowling	1	0	0	0	0
M.Clark	1	1	1	0	0
B.Nicklin	1	1	1	0	0
G.Daniels	1	0	0	0	0
D.Marchant	1	0	0	0	0
R.Alevoor	1	0	0	0	0
D.Humphrey	1	1	1	0	0
C.Baker	1	1	1	0	0
M.Childerley	1	1	1	0	0
W.Hall	1	0	0	0	0
T.Day	1	0	0	0	0
A.Newman	1	0	0	0	0

There are also no run outs displayed in the fielding page, despite the fact that one was entered for player J.Donnelly

Figure 9a

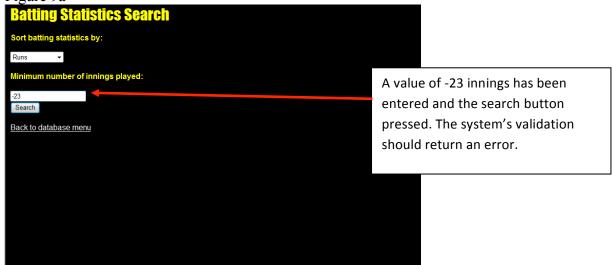
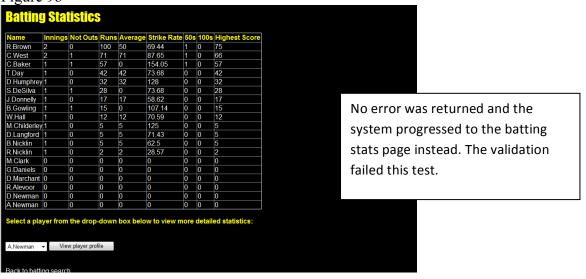


Figure 9b



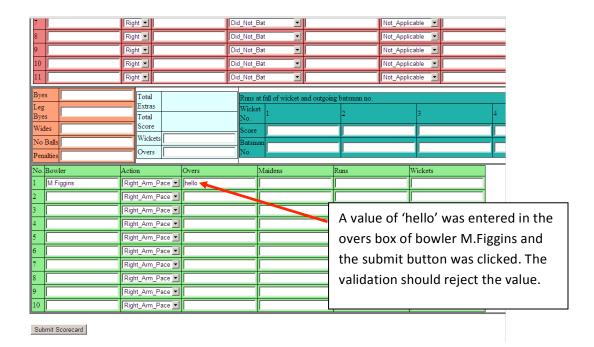


Figure 10b

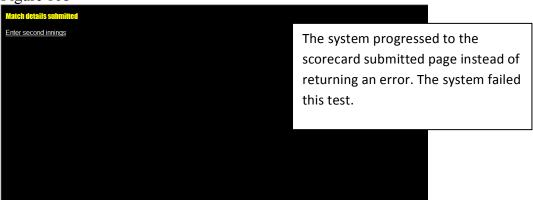


Figure 11a

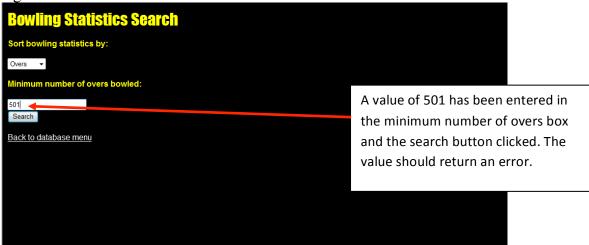
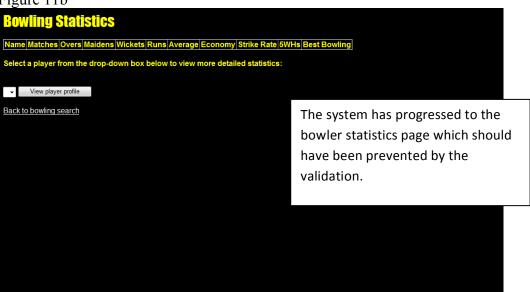


Figure 11b



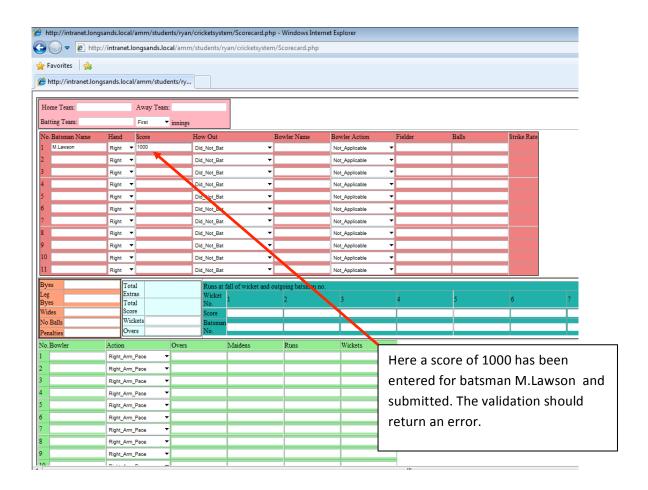
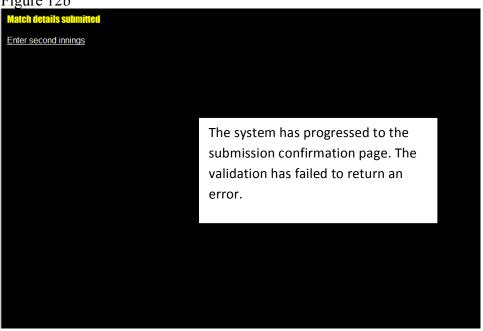


Figure 12b



4 – Evaluation

4.1 - Approach to Testing

In general I have chosen to take a mixed-level approach to testing. For example, the tests in series 1 are examples of white box tests to prove that the system can be moved through effectively by the user. Series 2 and 5 comprise of rigorous black box testing to ensure that the validation modules in the system are functioning correctly. Further black box testing is undertaken in series 4 to attempt to ensure that the system's mathematical functions are working as they are supposed to. Finally, series 6 and 7 are the overall system tests and tested whether the system worked I intended it and that it met the user's original specification which I am using as the yardstick for acceptance testing.

4.2 - Problems

My testing programme unearthed a number of problems with the system which are explained below, along with the measures I did (or didn't) take to eliminate these issues:

Test 7.1 – It proved impossible to meet my client's specification.

Obviously this is a major issue but due to the reasons explained previously I am unable to rectify this problem in the limited time available. This is an area that could be considered in the future updating of the system.

Test Series 2 – Erroneous and Extreme Testing

The first run of testing showed clearly that there was a serious problem with the validation of the scorecard form as it simply failed to return any errors. I will endeavour to correct this for the final edition of the testing.

Tests 5.2 and 5.3

The first run of these tests revealed an error whereby only wickets involving both a bowler and a fielder i.e. stumped and run out were being stored in the table. In response to this I undertook a debugging session. The error occurred because the system was attempting to store a blank string in the database in the FieldID or SpellID columns, which will only accept integers. To rectify this, I changed the program so the system stored a value of 'NULL' in the FieldID or SpellID columns in the database when there was no fielder or bowler involved in a dismissal.

4.3 - Strengths

The main strengths of my testing programme are the rigorous testing of the mathematical components of my system which proved robust and effective and the rigorous interface testing which proved that my system can be navigated effectively. I was also able to rectify the issue with storing various types of dismissal and can relatively safely conclude that the modules for transferring data to and from the database are effective and as robust on an individual level.

4.4 – Weaknesses

The main weakness of my testing programme was that due to the quantity of different input combinations possible in my scorecard, it was impossible to test all possible inputs, for example I neglected to test the more obscure dismissal methods such as obstructing the field thoroughly with many combinations of input simply because it comes up so rarely in genuine

matches and therefore was not worth strenuous testing on. This may have limited the ability of my testing programme to identify specific errors relating to particular dismissal methods. I also neglected to test some of the links back to previous pages on the system because they all use similar HTML code and therefore if the url source is correct then all of the links will work correctly. However, this means I cannot prove that the user interface is completely robust.

4.5 – Reliability

If provided with accurate data I believe that my testing has proved that my system is largely reliable. Only one error on tests 5.2 and 5.3 was found and it has been rectified. Therefore all data input and output works as expected now and is displayed as it should be. However, the system is not completely reliable because the validation is not functioning on the scorecard page. The system should still process it in the expected manner but obviously the data stored will be inaccurate, or players will be missed off the database if the data enterd is of the wrong datatype. Therefore, although the system itself is generally reliable it is only as effective as the data input is accurate.

4.6 - Robustness

My testing programme has also proved that my system is quite robust. At no point during my programme did it crash or go into infinite loops. It is conceivable that a particular kind of data entry of the wrong kind in the wrong field could cause the system to crash, but I have not found out how this might occur during implementation or during the tesing of my system.