

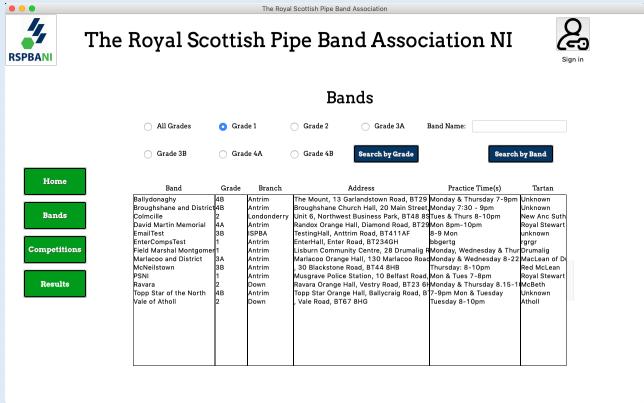
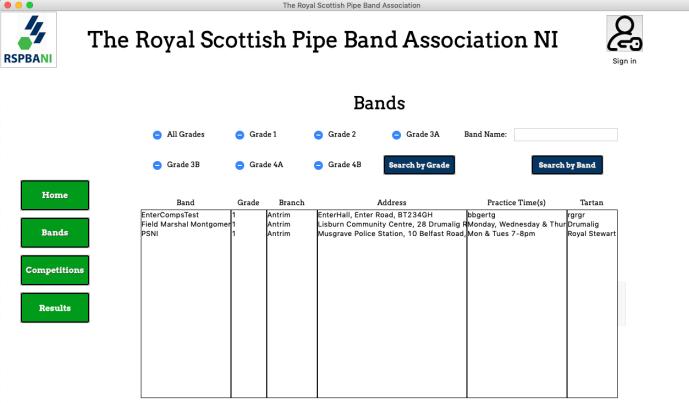
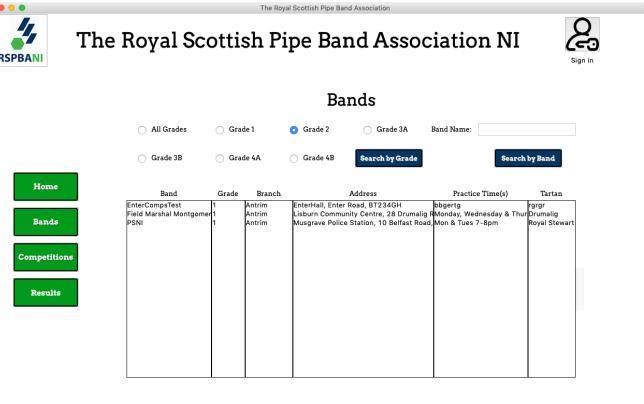
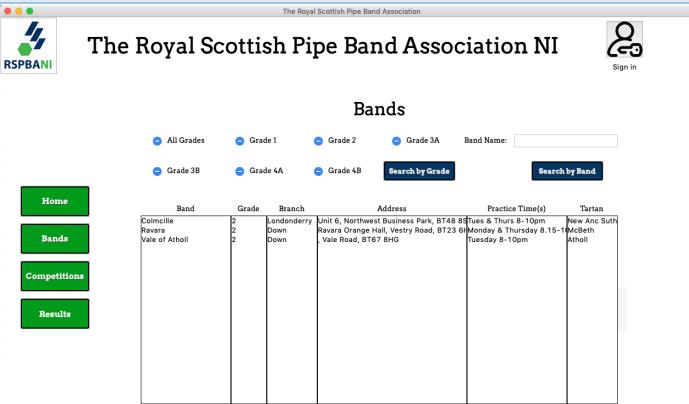
7 Testing

- 1.1 Testing the final system; Produce evidence of all problems encountered and actions taken to overcome these problems.
- 1.2 Design a test plan to test:
 - 1.2.1 Each individual system function
 - 1.2.2 That each individual function works with typical, extreme or invalid data
 - 1.2.3 The whole system to ensure that the system produces the correct results for the data input.
- 1.3 Actual test; Runs Produce annotated test runs that include commentaries on the outcomes of the testing process.

1. All users have the ability to view and search for a band on the bands page.

Test number	Description of test	Test data type (Typical/ Extreme/ Invalid)	Tests data to be used	Expected outcome	Test type (Functional / logical)
1	Testing the Grade radio button filter	Typical	Grade 1	On “Search by grade” button bands from Grade 1 only shown	Functional
2	Testing the Grade radio button filter	Typical	Grade 2	On “Search by grade” button bands from Grade 2 only shown	Functional
3	Testing the Grade radio button filter	Typical	Grade 3A	On “Search by grade” button bands from Grade 3A only shown	Functional
4	Testing the Grade radio button filter	Typical	Grade 3B	On “Search by grade” button bands from Grade 3B only shown	Functional

5	Testing the Grade radio button filter with no bands registered in this grade.	Typical	Grade 4A	On “Search by grade” button message box will appear telling user no bands have been entered and they will be presented the list of all bands.	Functional
6	Testing the Grade radio button filter	Typical	Grade 4B	On “Search by grade” button bands from Grade 4B only shown	Functional
7	Testing the Grade radio button filter	Invalid	No radio selection chosen	On “Search by grade” button no bands will be shown as no filter had been selected	Functional
8	Testing the searching my name filter	Typical	“Ballydonaghy”	On “Search by name” button only one band should appear in the selection.	Functional
9	Testing the searching my name filter	Typical	“ballydonaghy”	On “Search by name” button only one band should appear in the selection.	Functional
10	Testing the searching my name filter	Typical	“Bally”	On “Search by name” button only one band should appear in the selection.	Functional
11	Testing the searching my name filter	Invalid	“Ba11ydonaghy”	On “Search by name” button only one band should appear in the selection.	Functional

Test number	Evidenced test data	Actual outcome	Outcome screenshot	Comments																																																																																																
1	 <p>The Royal Scottish Pipe Band Association NI</p> <h3>Bands</h3> <p><input type="radio"/> All Grades <input checked="" type="radio"/> Grade 1 <input type="radio"/> Grade 2 <input type="radio"/> Grade 3A Band Name: <input type="text"/></p> <p><input type="radio"/> Grade 3B <input type="radio"/> Grade 4A <input type="radio"/> Grade 4B <input type="button" value="Search by Grade"/> <input type="button" value="Search by Band"/></p> <p><input type="button" value="Home"/> <input type="button" value="Bands"/> <input type="button" value="Competitions"/> <input type="button" value="Results"/></p> <table border="1"> <thead> <tr> <th>Band</th> <th>Grade</th> <th>Branch</th> <th>Address</th> <th>Practice Time(s)</th> <th>Tarlan</th> </tr> </thead> <tbody> <tr> <td>Ballymoney</td> <td>BB</td> <td>Antrim</td> <td>Mount, 13 Carricktown Road, BT79 8BB</td> <td>Monday & Tuesday 7-8pm</td> <td>Unknown</td> </tr> <tr> <td>Broughshane and District</td> <td>BB</td> <td>Antrim</td> <td>Broughshane Church Hall, 20 Main Street</td> <td>Monday 7:30 - 8pm</td> <td>New Anc Suth</td> </tr> <tr> <td>Coimcille</td> <td>2</td> <td>Londonderry</td> <td>Unit 6, Northwest Business Park, BT48 8BS</td> <td>Fri & Thurs 8-10pm</td> <td>Unknown</td> </tr> <tr> <td>Coleraine</td> <td>AA</td> <td>Antrim</td> <td>122a Londonderry Road, BT71 4JF</td> <td>Wednesday 7-8pm</td> <td>Unknown</td> </tr> <tr> <td>Emmet Memorial</td> <td>AA</td> <td>RSPBA</td> <td>Teston Hall, Antrim Road, BT41 1AF</td> <td>8-9 Mon</td> <td>Unknown</td> </tr> <tr> <td>Field Marshal Montgomery</td> <td>AA</td> <td>Antrim</td> <td>External Inter Road, BT23 8DQ</td> <td>Wednesday 7-8pm</td> <td>Ygraff</td> </tr> <tr> <td>Marlacoo and District</td> <td>3A</td> <td>Antrim</td> <td>Internal Community Centre, 28 Drumgill Road</td> <td>Wednesday & Thursday 8-11pm</td> <td>Maclean of D</td> </tr> <tr> <td>Marlacoo and District</td> <td>BB</td> <td>Antrim</td> <td>Marlacoo Orange Hall, 130 Marlacoo Road</td> <td>Monday & Wednesday 8-11pm</td> <td>MacLean of D</td> </tr> <tr> <td>P.S.N.I.</td> <td>BB</td> <td>Antrim</td> <td>Marlacoo Police Station, 10 Belfast Road</td> <td>Mon & Tues 7-8pm</td> <td>Royal Stewart</td> </tr> <tr> <td>Ravara</td> <td>2</td> <td>Antrim</td> <td>Ravara Orange Hall, Vestry Road, BT23 6LH</td> <td>Monday & Tuesday 8-11pm</td> <td>McBeth</td> </tr> <tr> <td>Roys of the North</td> <td>2</td> <td>Antrim</td> <td>Roys Bar Orange Hall, Ballyraig Road, BT23 6LH</td> <td>Monday & Tuesday 8-11pm</td> <td>Unknown</td> </tr> <tr> <td>Vale of Atholl</td> <td>2</td> <td>Antrim</td> <td>Vale Road, BT67 8HQ</td> <td>Tuesday 8-11pm</td> <td>Atholl</td> </tr> </tbody> </table>	Band	Grade	Branch	Address	Practice Time(s)	Tarlan	Ballymoney	BB	Antrim	Mount, 13 Carricktown Road, BT79 8BB	Monday & Tuesday 7-8pm	Unknown	Broughshane and District	BB	Antrim	Broughshane Church Hall, 20 Main Street	Monday 7:30 - 8pm	New Anc Suth	Coimcille	2	Londonderry	Unit 6, Northwest Business Park, BT48 8BS	Fri & Thurs 8-10pm	Unknown	Coleraine	AA	Antrim	122a Londonderry Road, BT71 4JF	Wednesday 7-8pm	Unknown	Emmet Memorial	AA	RSPBA	Teston Hall, Antrim Road, BT41 1AF	8-9 Mon	Unknown	Field Marshal Montgomery	AA	Antrim	External Inter Road, BT23 8DQ	Wednesday 7-8pm	Ygraff	Marlacoo and District	3A	Antrim	Internal Community Centre, 28 Drumgill Road	Wednesday & Thursday 8-11pm	Maclean of D	Marlacoo and District	BB	Antrim	Marlacoo Orange Hall, 130 Marlacoo Road	Monday & Wednesday 8-11pm	MacLean of D	P.S.N.I.	BB	Antrim	Marlacoo Police Station, 10 Belfast Road	Mon & Tues 7-8pm	Royal Stewart	Ravara	2	Antrim	Ravara Orange Hall, Vestry Road, BT23 6LH	Monday & Tuesday 8-11pm	McBeth	Roys of the North	2	Antrim	Roys Bar Orange Hall, Ballyraig Road, BT23 6LH	Monday & Tuesday 8-11pm	Unknown	Vale of Atholl	2	Antrim	Vale Road, BT67 8HQ	Tuesday 8-11pm	Atholl	<p>Bands from Grade 1 only shown in the list box.</p>	 <p>The Royal Scottish Pipe Band Association NI</p> <h3>Bands</h3> <p><input type="radio"/> All Grades <input checked="" type="radio"/> Grade 1 <input type="radio"/> Grade 2 <input type="radio"/> Grade 3A Band Name: <input type="text"/></p> <p><input type="radio"/> Grade 3B <input type="radio"/> Grade 4A <input type="radio"/> Grade 4B <input type="button" value="Search by Grade"/> <input type="button" value="Search by Band"/></p> <p><input type="button" value="Home"/> <input type="button" value="Bands"/> <input type="button" value="Competitions"/> <input type="button" value="Results"/></p> <table border="1"> <thead> <tr> <th>Band</th> <th>Grade</th> <th>Branch</th> <th>Address</th> <th>Practice Time(s)</th> <th>Tarlan</th> </tr> </thead> <tbody> <tr> <td>InterCompsTest</td> <td>1</td> <td>Antrim</td> <td>External, Enter Road, BT23 8DQ</td> <td>Monday, Wednesday & Thursday 7-8pm</td> <td>Drumalig</td> </tr> <tr> <td>Field Marshal Montgomery P.S.N.I.</td> <td>1</td> <td>Antrim</td> <td>Lisburn Community Centre, 28 Drumalig Road</td> <td>Monday, Wednesday & Thursday 7-8pm</td> <td>Royal Stewart</td> </tr> </tbody> </table>	Band	Grade	Branch	Address	Practice Time(s)	Tarlan	InterCompsTest	1	Antrim	External, Enter Road, BT23 8DQ	Monday, Wednesday & Thursday 7-8pm	Drumalig	Field Marshal Montgomery P.S.N.I.	1	Antrim	Lisburn Community Centre, 28 Drumalig Road	Monday, Wednesday & Thursday 7-8pm	Royal Stewart	<p>This test has passed</p>
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3

The Royal Scottish Pipe Band Association NI

Bands

Band Name:

All Grades Grade 1 Grade 2 Grade 3A Grade 3B Grade 4A Grade 4B

Search by Grade **Search by Band**

Home **Bands** **Competitions** **Results**

Band	Grade	Branch	Address	Practice Time(s)	Tartan
Emmelle Reivers	2	Consett	Unit 6 Northwest Business Park, BT14 8BB	Fridays & Thursdays 10pm	New Anc Suth
Vale of Atholl	2	Dovey	Reavas Orange Hall, Valey Road, BT67 8HG	Mondays & Thursday 8.15-10pm	MacBeth Atholl

Bands from Grade 3A only shown in the list box.

The Royal Scottish Pipe Band Association NI

Bands

Band Name:

All Grades Grade 1 Grade 2 Grade 3A Grade 3B Grade 4A Grade 4B

Search by Grade **Search by Band**

Home **Bands** **Competitions** **Results**

Band	Grade	Branch	Address	Practice Time(s)	Tartan
Mariacoo and District	3A	Antrim	Mariacoo Orange Hall, 130 Mariacoo Road	Monday & Wednesday 8-22	MacLean of D

This test has passed

4

The Royal Scottish Pipe Band Association NI

Bands

Band Name:

All Grades Grade 1 Grade 2 Grade 3A Grade 3B Grade 4A Grade 4B

Search by Grade **Search by Band**

Home **Bands** **Competitions** **Results**

Band	Grade	Branch	Address	Practice Time(s)	Tartan
Mariacoo and District	3A	Antrim	Mariacoo Orange Hall, 130 Mariacoo Road	Mondays & Wednesday 8-22	MacLean of D

Bands from Grade 3B only shown in the list box.

The Royal Scottish Pipe Band Association NI

Bands

Band Name:

All Grades Grade 1 Grade 2 Grade 3A Grade 3B Grade 4A Grade 4B

Search by Grade **Search by Band**

Home **Bands** **Competitions** **Results**

Band	Grade	Branch	Address	Practice Time(s)	Tartan
EmailTee McNeilstown	BB	GBRA Antrim	TaxingHall, Antrim Road, BT41 1AF	S-9 Mon-Thursday 8-10pm	McKinnon Red McLean
	BB		30 Blackstone Road, BT44 8H8		

This test has passed

5

The Royal Scottish Pipe Band Association NI

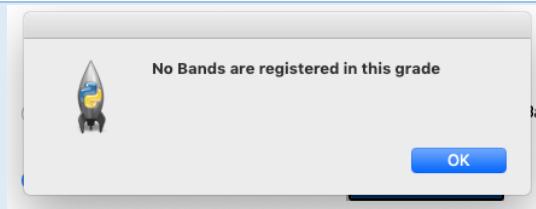
Bands

Band: Smalltest McNeilson, Grade: 3B, Branch: RSPBA Antrim, Address: Testmagh, Antrim Road, BT41 1AF, Practice Time(s): 8-9 Mon, Tartan: Unknown Red McLean.

Navigation menu: Home, Bands, Competitions, Results.

Filter buttons: All Grades, Grade 1, Grade 2, Grade 3A, Grade 3B, Grade 4A, Grade 4B, Search by Grade, Search by Band.

Bands from Grade 4A only shown in the list box.



This test has passed

6

The Royal Scottish Pipe Band Association NI

Bands

Band: David Martin Memorial, Grade: 4A, Branch: Rondo Orange Hall, Diamond Road, BT12, Address: Diamond Road, BT12, Practice Time(s): Mon 8pm-10pm, Tartan: Royal Stewart.

Navigation menu: Home, Bands, Competitions, Results.

Filter buttons: All Grades, Grade 1, Grade 2, Grade 3A, Grade 3B, Grade 4A, Grade 4B, Search by Grade, Search by Band.

Bands from Grade 4B only shown in the list box.

The Royal Scottish Pipe Band Association NI

Bands

Band: Ballydrayagh, Grade: 4B, Branch: Antrim, Address: The Mount, 13 Garlisdene Road, BT12, Practice Time(s): Monday & Thursday 7-9pm, Tartan: Unknown.

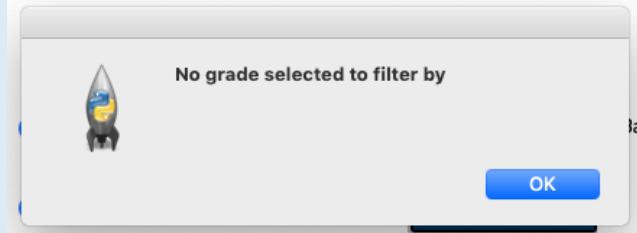
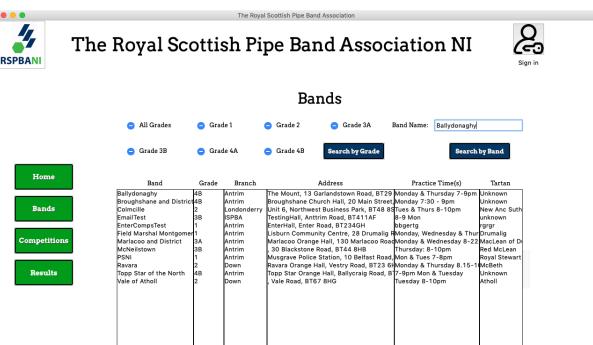
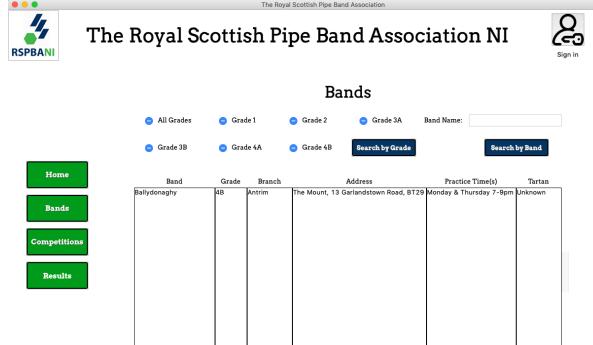
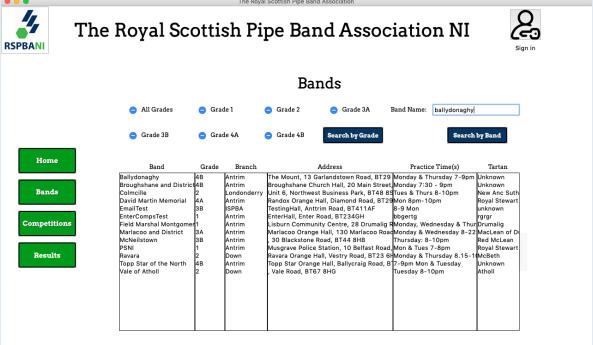
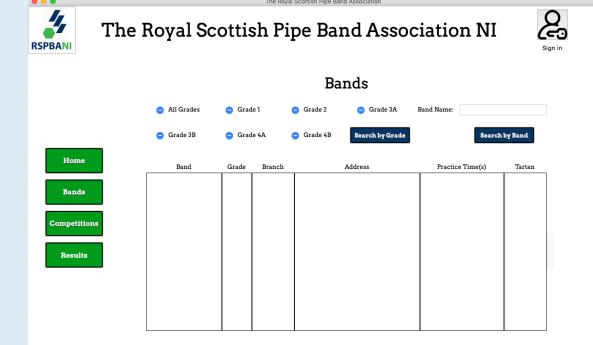
Band: Broughshane and District, Grade: 4B, Branch: Antrim, Address: Broughshane Church Hall, 20 Main Street, BT12, Practice Time(s): Monday 7:30 - 8pm, Tartan: Unknown.

Band: Topp Star of the North, Grade: 4B, Branch: Antrim, Address: Topp Star Orange Hall, Ballycraigy Road, BT12, Practice Time(s): Monday & Tuesday 8-10pm, Tartan: Unknown.

Navigation menu: Home, Bands, Competitions, Results.

Filter buttons: All Grades, Grade 1, Grade 2, Grade 3A, Grade 3B, Grade 4A, Grade 4B, Search by Grade, Search by Band.

This test has passed

7	N / A	Message box to tell user that they haven't selected a grade to filter results		This test has passed
8		User displayed any matching results from their search – in this case all details from Ballydonaghyl will appear.		This test has passed
9		No bands shown – this was not supposed to happen, this has not met the required criterion		Failed – My program does not allow the user to enter the band name when it is not identical to what is stored in the database. I will need to implement some validation to ensure the input is in title case.

10

The Royal Scottish Pipe Band Association NI

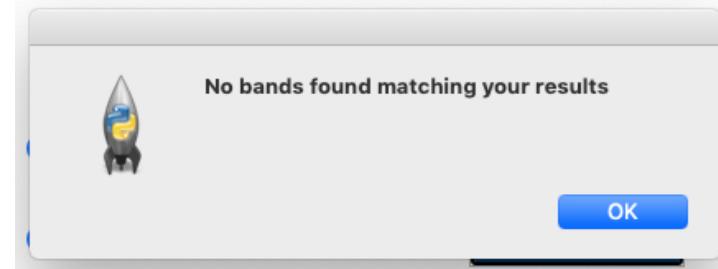
Bands

Band Name: Bally

Band	Grade	Branch	Address	Practice Times(s)	Tutor(s)
Ballydroyagh	BB	Antrim	The Mount, 13 Garvaghtown Road, BT29	Monday & Thursday 7-8pm	Unknown
Broughshane And District	BB	Antrim	Broughshane Church Hall, 20 Main Street	Monday 7-9pm	Unknown
Carrickfergus	BB	Antrim	13 Newgate Street, BT71 1AF	Wednesday 8-9pm	John & Ruth
EmailTest	BB	GPBA	TestingHall, Antrim Road, BT411AF	8-9 Mon	Unknown
Immaculate Heart Of Mary	BB	Antrim	Ulster Community Centre, 28 Drumaliy	Monday, Wednesday & Thursday 8-9pm	Drumaliy
Field Marshal Montgomery	1	Antrim	Ulster Community Centre, 28 Drumaliy	Monday, Wednesday & Thursday 8-9pm	Drumaliy
Macmillan And District	BB	Antrim	30 Blackstone Road, BT44 8RH	Wednesday 8-9pm	Red McLean
McNeilstown	BB	Antrim	Margave Police Station, 10 Belfast Road	Mon & Tues 8-10pm	Red McLean
Pipers	2	Antrim	Margave Police Station, 10 Belfast Road	Mon & Tues 8-10pm	Royal Stewart
Portavogie	BB	Antrim	13 Newgate Street, BT71 1AF	Wednesday 8-9pm	Unknown
Topp Star Of The North	BB	Antrim	Topp Star Orange Hall, Ballycraig Road, BT7 3HQ	Monday & Tuesday 8-10pm	Unknown
Vale Of Antrim	2	Antrim	Vale Road, BT71 3HQ	Monday & Tuesday 8-10pm	Unknown

Search by Grade:

No bands will be shown as this is not the name of any band. User will be displayed bands.



This test has passed

11

The Royal Scottish Pipe Band Association NI

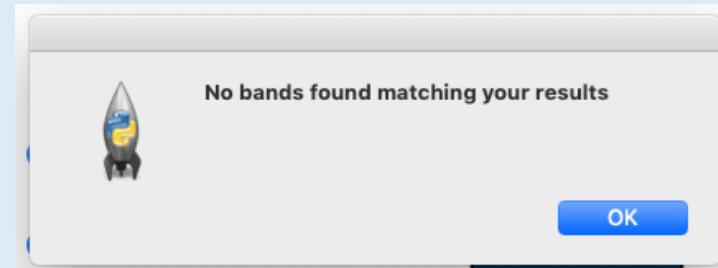
Bands

Band Name: Ba1lydyogh

Band	Grade	Branch	Address	Practice Times(s)	Tutor(s)
Ballydroyagh	BB	Antrim	The Mount, 13 Garvaghtown Road, BT29	Monday & Thursday 7-8pm	Unknown
Broughshane And District	BB	Antrim	Broughshane Church Hall, 20 Main Street	Monday 7-9pm	Unknown
Carrickfergus	BB	Antrim	13 Newgate Street, BT71 1AF	Wednesday 8-9pm	John & Ruth
EmailTest	BB	GPBA	TestingHall, Antrim Road, BT411AF	8-9 Mon	Unknown
Immaculate Heart Of Mary	BB	Antrim	Ulster Community Centre, 28 Drumaliy	Monday, Wednesday & Thursday 8-9pm	Drumaliy
Field Marshal Montgomery	1	Antrim	Ulster Community Centre, 28 Drumaliy	Monday, Wednesday & Thursday 8-9pm	Drumaliy
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Topp Star Of The North	BB	Antrim	Topp Star Orange Hall, Ballycraig Road, BT7 3HQ	Monday & Tuesday 8-10pm	Unknown
Vale Of Antrim	2	Antrim	Vale Road, BT71 3HQ	Monday & Tuesday 8-10pm	Unknown

Search by Grade:

Message box presented to user as no bands found with this search. However, this data is not invalid as bands can have "1st" prefix



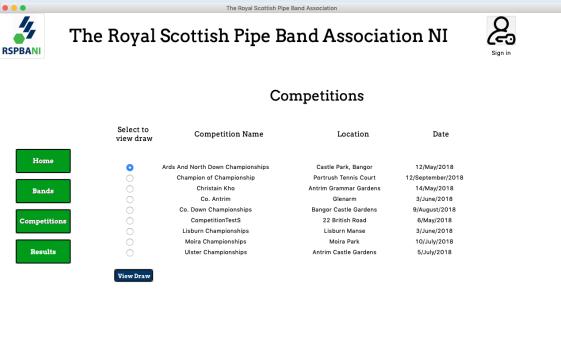
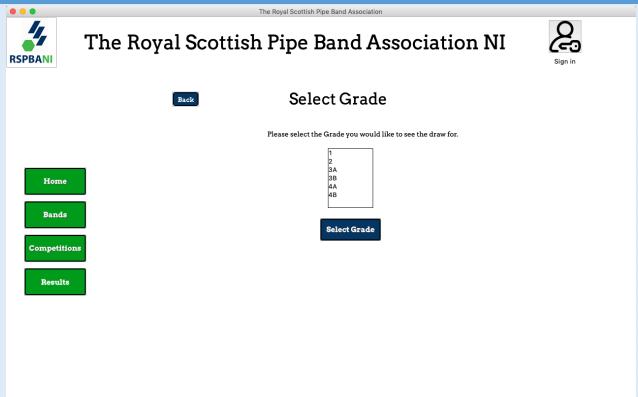
This test has passed

Test number	Issue	Resolution	Commentary
9	Band wasn't found due to the inputted data not being in title case.	<pre> def BandsFrame(photoSearchByGrade, photoSearchByBand): def DisplayName(BandNameSearch): NameOfBand = BandNameSearch.get() print(NameOfBand) print(NameOfBand[0]) if str(NameOfBand[0]).islower()==True: print("True") NameOfBandFirstChar = str(NameOfBand[0]).upper() print(NameOfBandFirstChar) BandNameMinusFirst = NameOfBand[1:] NameOfBand = str(NameOfBandFirstChar) + str(BandNameMinusFirst) print(NameOfBand) </pre>	I tried to use the SQL SELECT LIKE clause however I couldn't get this working. Instead, I was able to resolve this issue by checking if the first character was lower case. If it was, I converted it and then concatenated it to the band name minus the first letter.

2. All users have the ability to view and search for a competition on the competitions page.

Test number	Description of test	Test data type (Typical/ Extreme/ Invalid)	Tests data to be used	Expected outcome	Test type (Functional / logical)
<u>1</u>	Select a competition and be presented with list box to select the grade to view	Typical	Ards And North Down Championship radio button selected	Brought to the select grade page	Functional
<u>2</u>	Select a competition and be presented with list box to select the grade to view	Invalid	No radio button selected	Message box telling the user that they must select a competition by clicking on the radio button beside the competition they want to view. User to remain on the competitions page.	Functional
<u>3</u>	Testing the back button on the select grade page	Typical	Pressing back button	The Competitions page should be displayed so the user can select another competition to view the results for.	Functional
<u>4</u>	Select a grade to view results for that grade	Typical	“1”	Page to view the results. The grade number is displayed, the competition name and all the bands in the grade with their circle number and competing time must also be displayed. For this test the user should expect to see the competition name as “Ards And North Down”, the grade as “Grade 1”, the number of bands entered should be “2”. Field Marshal should have a circle number of 1 and a competing time of 9:00. PSNI should have circle number of 1 and competing time of 9:10	Functional

5	Select a grade to view results for that grade	Invalid	No grade selected	Message box stating that no grade has been selected	Functional
6	Selected a grade where no bands entered the grade.	Typical	Competition selected – Champion of Championships Grade selected – 4B	Message displayed on screen – “No bands have entered this grade”	Functional
7	Selecting a competition which hasn't been drawn yet.	Typical	Competition selected – Moria Championships	Informative message – “This competition hasn't been drawn yet”	Functional

Test number	Evidenced test data	Actual outcome	Outcome screenshot	Comments
1		Select Grade screen was displayed		This test has passed

2

The Royal Scottish Pipe Band Association NI

Competitions

Select to view draw	Competition Name	Location	Date
<input type="radio"/>	Ards And North Down Championships	Castle Park, Bangor	12/May/2018
<input type="radio"/>	Champion of Championship	Portrush Tennis Court	12/September/2018
<input type="radio"/>	Christen Kho	Antrim Grammar Gardens	14/May/2018
<input type="radio"/>	Co. Antrim	Glenarm	3/Jun/2018
<input type="radio"/>	Co. Down Championships	Bangor Castle Gardens	9/August/2018
<input type="radio"/>	CompetitionTests	22 British Road	6/May/2018
<input type="radio"/>	Lisburn Championships	Lisburn	30/April/2018
<input type="radio"/>	Moira Championships	Moira Park	10/July/2018
<input type="radio"/>	Ulster Championships	Antrim Castle Gardens	5/July/2018

[View Draw](#)

Message has been displayed, the exception has been captured and the user remains on the page to select a competition

The Royal Scottish Pipe Band Association NI

Please select a competition by clicking on the radio button beside the competition that you want to view.

[OK](#)

Select to view draw

Select to view draw	Competition Name	Location	Date
<input type="radio"/>	Ards And North Down Championships	Castle Park, Bangor	12/May/2018
<input type="radio"/>	Champion of Championship	Portrush Tennis Court	12/September/2018
<input type="radio"/>	Christen Kho	Antrim Grammar Gardens	14/May/2018
<input type="radio"/>	Co. Antrim	Glenarm	3/Jun/2018
<input type="radio"/>	Co. Down Championships	Bangor Castle Gardens	9/August/2018
<input type="radio"/>	CompetitionTests	22 British Road	6/May/2018
<input type="radio"/>	Lisburn Championships	Lisburn	30/April/2018
<input type="radio"/>	Moira Championships	Moira Park	10/July/2018
<input type="radio"/>	Ulster Championships	Antrim Castle Gardens	5/July/2018

This test has passed

3

The Royal Scottish Pipe Band Association NI

Select Grade

Please select the Grade you would like to see the draw for.

P
RA
RB
RC
AA
AB

[Select Grade](#)

Competitions page displayed

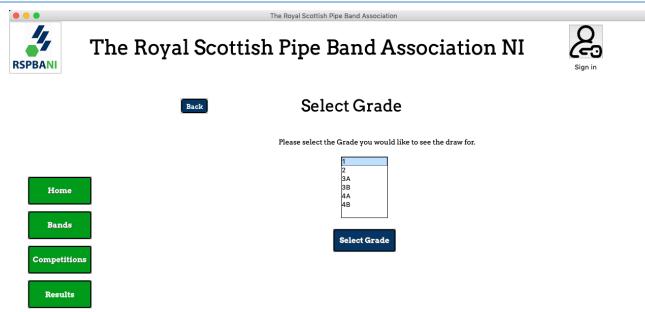
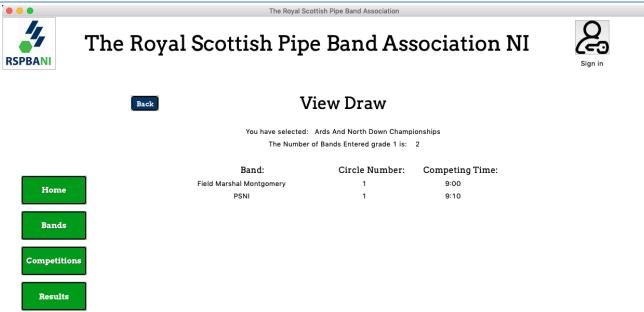
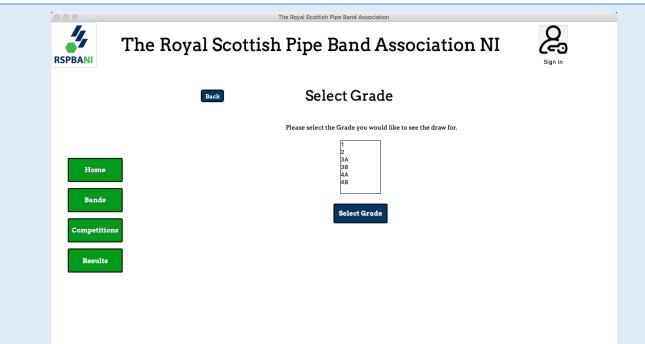
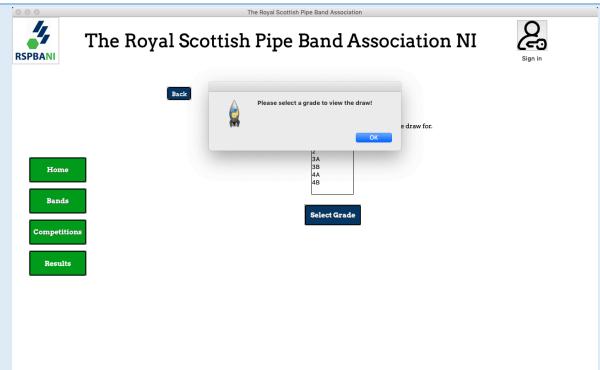
The Royal Scottish Pipe Band Association NI

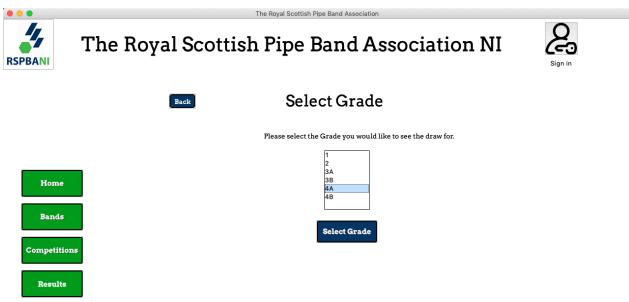
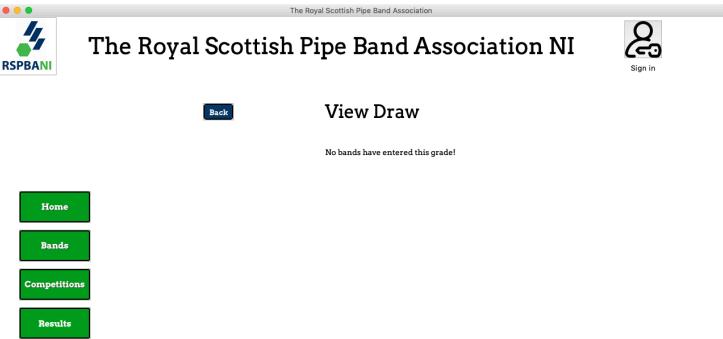
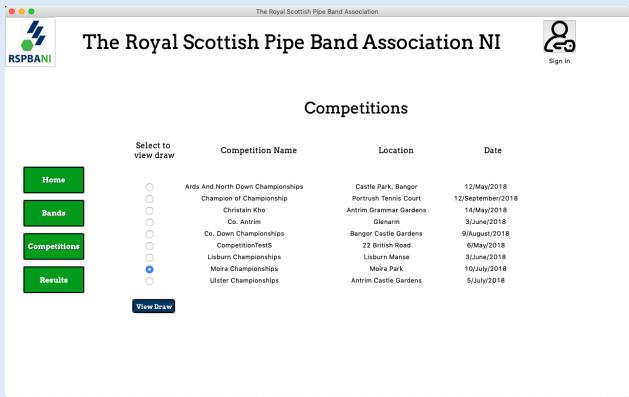
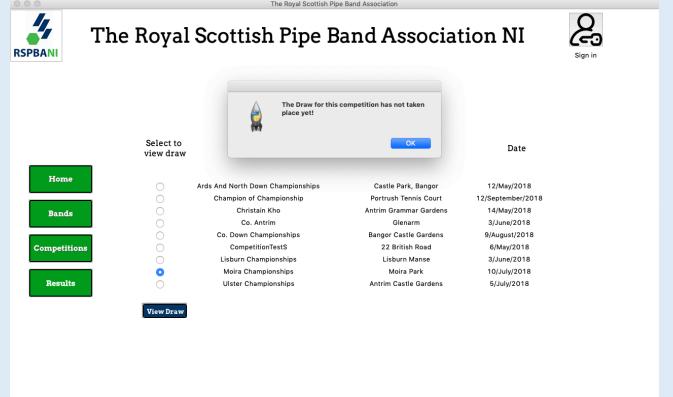
Competitions

Select to view draw	Competition Name	Location	Date
<input type="radio"/>	Ards And North Down Championships	Castle Park, Bangor	12/May/2018
<input type="radio"/>	Champion of Championship	Portrush Tennis Court	12/September/2018
<input type="radio"/>	Christen Kho	Antrim Grammar Gardens	14/May/2018
<input type="radio"/>	Co. Antrim	Glenarm	3/Jun/2018
<input type="radio"/>	Co. Down Championships	Bangor Castle Gardens	9/August/2018
<input type="radio"/>	CompetitionTests	22 British Road	6/May/2018
<input type="radio"/>	Lisburn Championships	Lisburn	30/April/2018
<input type="radio"/>	Moira Championships	Moira Park	10/July/2018
<input type="radio"/>	Ulster Championships	Antrim Castle Gardens	5/July/2018

[View Draw](#)

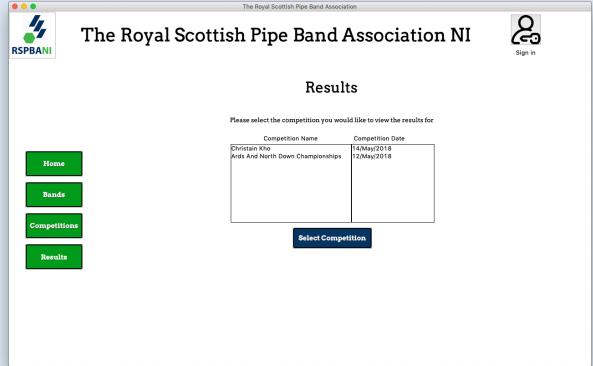
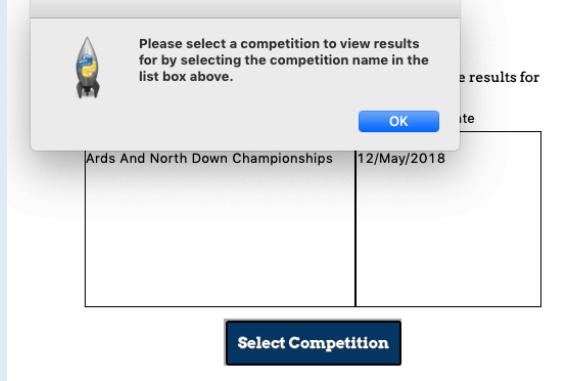
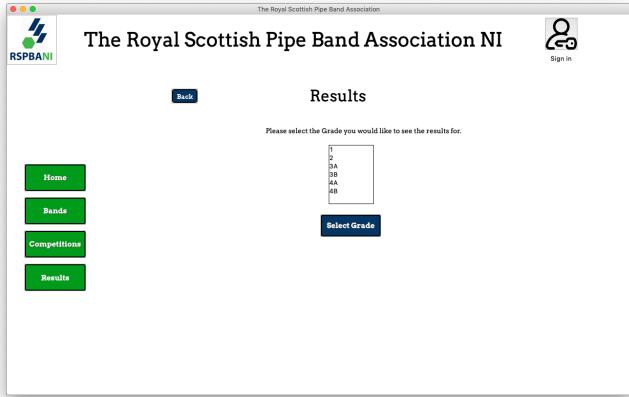
This test has passed

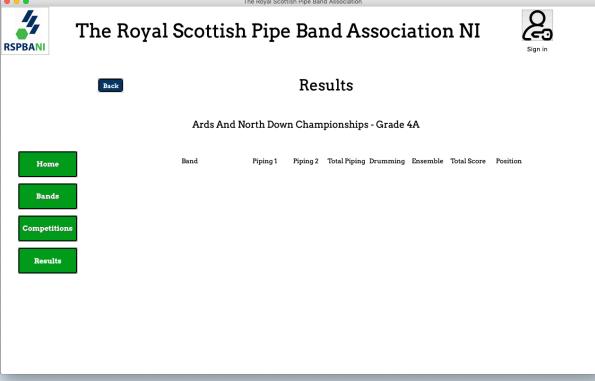
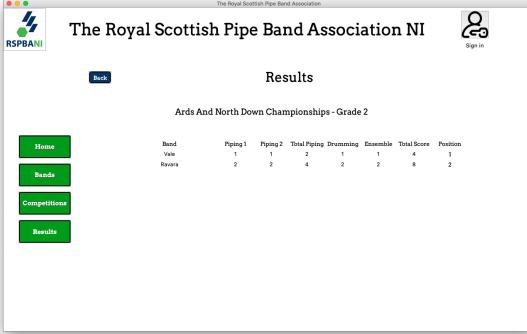
4	 <p>The Royal Scottish Pipe Band Association NI</p> <p>Select Grade</p> <p>Please select the Grade you would like to see the draw for.</p> <p>Home Bands Competitions Results</p>	<p>Draw page displayed will all correct data as expected.</p>	 <p>The Royal Scottish Pipe Band Association NI</p> <p>View Draw</p> <p>You have selected: Ards And North Down Championships</p> <p>The Number of Bands Entered grade 1 is: 2</p> <table border="1"> <thead> <tr> <th>Band:</th> <th>Circle Number:</th> <th>Competing Time:</th> </tr> </thead> <tbody> <tr> <td>Field Marshal Montgomery</td> <td>1</td> <td>9:00</td> </tr> <tr> <td>PSNI</td> <td>1</td> <td>9:10</td> </tr> </tbody> </table> <p>Home Bands Competitions Results</p>	Band:	Circle Number:	Competing Time:	Field Marshal Montgomery	1	9:00	PSNI	1	9:10	<p>This test has passed</p>
Band:	Circle Number:	Competing Time:											
Field Marshal Montgomery	1	9:00											
PSNI	1	9:10											
5	 <p>The Royal Scottish Pipe Band Association NI</p> <p>Select Grade</p> <p>Please select the Grade you would like to see the draw for.</p> <p>Home Bands Competitions Results</p>	<p>Message has been displayed to the user and the exception has been captured.</p>	 <p>The Royal Scottish Pipe Band Association NI</p> <p>Please select a grade to view the draw!</p> <p>OK</p> <p>draw for:</p> <p>3A 3B 4A 4B</p> <p>Select Grade</p>	<p>This test has passed</p>									

6	 <p>The Royal Scottish Pipe Band Association NI</p> <p>Select Grade</p> <p>Please select the Grade you would like to see the draw for.</p> <p>Home Bands Competitions Results</p>	<p>View Draw screen displayed informing that no bands have entered this grade.</p>	 <p>The Royal Scottish Pipe Band Association NI</p> <p>View Draw</p> <p>No bands have entered this grade!</p> <p>Home Bands Competitions Results</p>	<p>This test has passed.</p> <p>The back button will allow them to return to previous screen to select another grade or go back again to select another competition. This has also been tested and is working on both the view draw page and select grade page</p>																																								
7	 <p>The Royal Scottish Pipe Band Association NI</p> <p>Competitions</p> <table border="1"> <thead> <tr> <th>Select to view draw</th> <th>Competition Name</th> <th>Location</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td><input type="radio"/></td> <td>Ards And North Down Championships</td> <td>Castle Park, Bangor</td> <td>12/May/2018</td> </tr> <tr> <td><input type="radio"/></td> <td>Champion of Championship</td> <td>Portrush Tennis Court</td> <td>14/May/2018</td> </tr> <tr> <td><input type="radio"/></td> <td>Christian Kho</td> <td>Antrim Grammar Gardens</td> <td>3/Jun/2018</td> </tr> <tr> <td><input type="radio"/></td> <td>Co. Down Championships</td> <td>Glenarm</td> <td>8/Jun/2018</td> </tr> <tr> <td><input type="radio"/></td> <td>Co. Down Championships</td> <td>Bangor Castle Gardens</td> <td>22/British Road</td> </tr> <tr> <td><input checked="" type="radio"/></td> <td>CompetitionTests</td> <td>Lisburn</td> <td>6/May/2018</td> </tr> <tr> <td><input type="radio"/></td> <td>Lisburn Championships</td> <td>Lisburn Mews</td> <td>3/Jun/2018</td> </tr> <tr> <td><input type="radio"/></td> <td>Moira Championships</td> <td>Moira Park</td> <td>10/July/2018</td> </tr> <tr> <td><input type="radio"/></td> <td>Ulster Championships</td> <td>Antrim Castle Gardens</td> <td>5/July/2018</td> </tr> </tbody> </table> <p>Home Bands Competitions Results</p> <p>View Draw</p>	Select to view draw	Competition Name	Location	Date	<input type="radio"/>	Ards And North Down Championships	Castle Park, Bangor	12/May/2018	<input type="radio"/>	Champion of Championship	Portrush Tennis Court	14/May/2018	<input type="radio"/>	Christian Kho	Antrim Grammar Gardens	3/Jun/2018	<input type="radio"/>	Co. Down Championships	Glenarm	8/Jun/2018	<input type="radio"/>	Co. Down Championships	Bangor Castle Gardens	22/British Road	<input checked="" type="radio"/>	CompetitionTests	Lisburn	6/May/2018	<input type="radio"/>	Lisburn Championships	Lisburn Mews	3/Jun/2018	<input type="radio"/>	Moira Championships	Moira Park	10/July/2018	<input type="radio"/>	Ulster Championships	Antrim Castle Gardens	5/July/2018	<p>Message has been displayed to the user as the drawn hasn't taken place yet - exception has been captured. User remains on the competitions screen.</p>	 <p>The Royal Scottish Pipe Band Association NI</p> <p>Select to view draw</p> <p>Ards And North Down Championships</p> <p>Champion of Championship</p> <p>Christian Kho</p> <p>Co. Antrim</p> <p>Co. Down Championships</p> <p>CompetitionTests</p> <p>Lisburn Championships</p> <p>Moira Championships</p> <p>Ulster Championships</p> <p>Castle Park, Bangor</p> <p>Portrush Tennis Court</p> <p>Antrim Grammar Gardens</p> <p>Glenarm</p> <p>Bangor Castle Gardens</p> <p>22 British Road</p> <p>Lisburn Mews</p> <p>Moira Park</p> <p>Antrim Castle Gardens</p> <p>12/May/2018</p> <p>14/May/2018</p> <p>3/Jun/2018</p> <p>8/Jun/2018</p> <p>6/May/2018</p> <p>3/Jun/2018</p> <p>10/July/2018</p> <p>5/July/2018</p> <p>Home Bands Competitions Results</p> <p>View Draw</p> <p>The Draw for this competition has not taken place yet!</p> <p>OK</p> <p>Date</p>	<p>This test has passed</p>
Select to view draw	Competition Name	Location	Date																																									
<input type="radio"/>	Ards And North Down Championships	Castle Park, Bangor	12/May/2018																																									
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<input type="radio"/>	Ulster Championships	Antrim Castle Gardens	5/July/2018																																									

3. All users have the ability to view and search for a grades' result in a competition on the results page.

Test number	Description of test	Test data type (Typical/ Extreme/ Invalid)	Tests data to be used	Expected outcome	Test type (Functional / logical)
1	Pressing the select competition button without selecting a competition	Invalid	None	A message box presented to user asking them to select a competition	Functional
2	Selecting a competition to view Results	Typical	Ards and North Down Championships	User will be brought to a new screen to select a grade to view the results from	Functional
3	Selecting a grade with no bands entered it.	Typical	4A	The Results screen will be shown with a message saying that no bands have entered this grade.	Logical
4	Selecting a grade with bands entered	Typical	2	The bands with their full results will be displayed. This should match the output which has been sent to all bands to ensure both are valid.	Logical

Test number	Evidenced test data	Actual outcome	Outcome screenshot	Comments						
1	 <p>The Royal Scottish Pipe Band Association NI</p> <p>Results</p> <p>Please select the competition you would like to view the results for</p> <table border="1"> <tr> <td>Competition Name</td> <td>Competition Date</td> </tr> <tr> <td>Christian Kno Ards And North Down Championships</td> <td>14May/2018</td> </tr> </table> <p>Select Competition</p>	Competition Name	Competition Date	Christian Kno Ards And North Down Championships	14May/2018	As expected	 <p>Please select a competition to view results for by selecting the competition name in the list box above.</p> <p>OK</p> <p>Ards And North Down Championships 12/May/2018</p> <p>Select Competition</p>	This test has passed.		
Competition Name	Competition Date									
Christian Kno Ards And North Down Championships	14May/2018									
2	N/A	As expected	 <p>The Royal Scottish Pipe Band Association NI</p> <p>Results</p> <p>Please select the Grade you would like to see the results for:</p> <table border="1"> <tr> <td>1</td> </tr> <tr> <td>2</td> </tr> <tr> <td>3A</td> </tr> <tr> <td>3B</td> </tr> <tr> <td>4A</td> </tr> <tr> <td>4B</td> </tr> </table> <p>Select Grade</p>	1	2	3A	3B	4A	4B	This test has passed
1										
2										
3A										
3B										
4A										
4B										

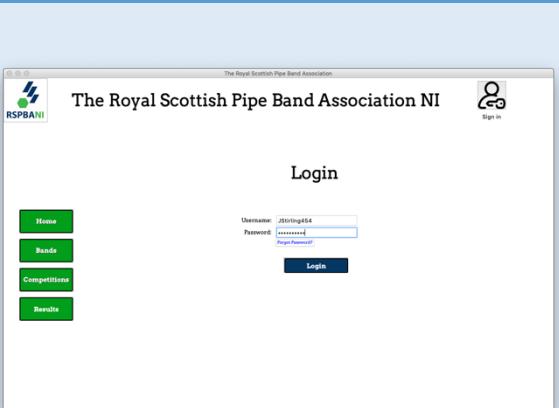
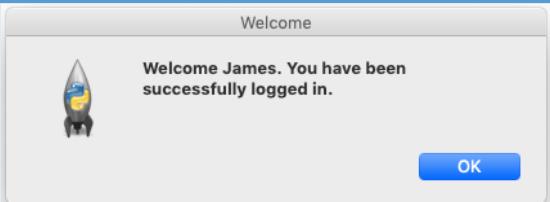
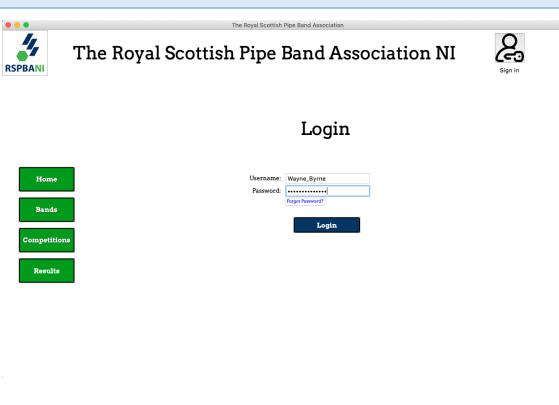
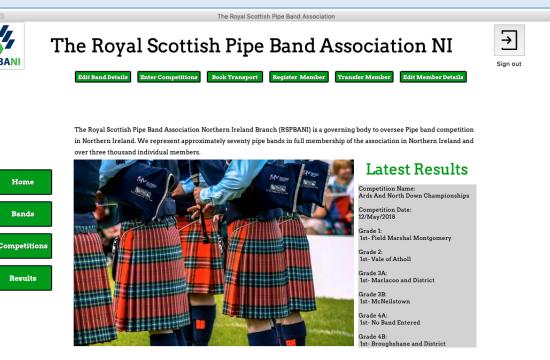
3		This was not as expected.		This test has not passed as there is no information displayed to let the user know why no results have been displayed here.																																
4		As expected.	<p>The screenshot below shows the results on the results page</p>  <table border="1"> <thead> <tr> <th>Band</th> <th>Piping 1</th> <th>Piping 2</th> <th>Total Piping</th> <th>Drumming</th> <th>Ensemble</th> <th>Total Score</th> <th>Position</th> </tr> </thead> <tbody> <tr> <td>Band Name</td> <td>1</td> <td>1</td> <td>2</td> <td>1</td> <td>1</td> <td>4</td> <td>1</td> </tr> <tr> <td>Vote</td> <td>2</td> <td>2</td> <td>4</td> <td>2</td> <td>2</td> <td>8</td> <td>2</td> </tr> <tr> <td>Revers</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>The output below confirms that the same logic has been used to reproduce the same results successfully.</p>	Band	Piping 1	Piping 2	Total Piping	Drumming	Ensemble	Total Score	Position	Band Name	1	1	2	1	1	4	1	Vote	2	2	4	2	2	8	2	Revers								This test has passed.
Band	Piping 1	Piping 2	Total Piping	Drumming	Ensemble	Total Score	Position																													
Band Name	1	1	2	1	1	4	1																													
Vote	2	2	4	2	2	8	2																													
Revers																																				

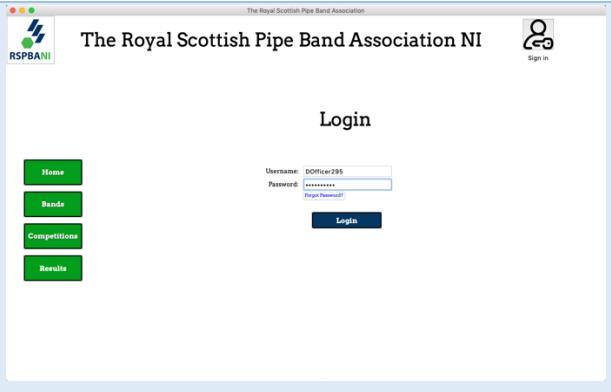
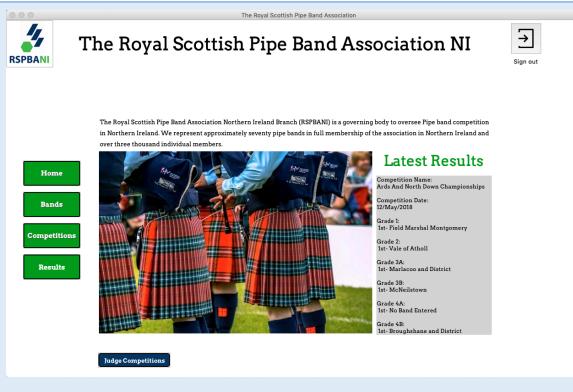
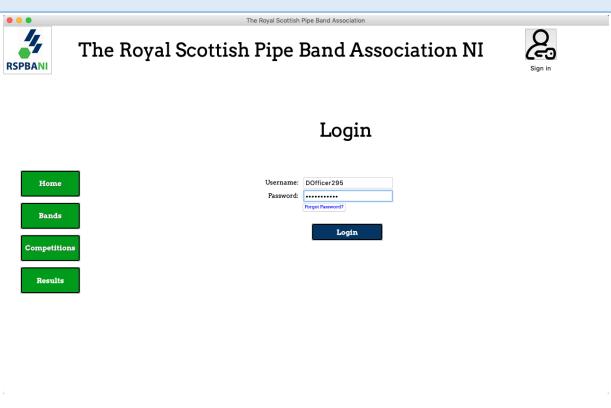
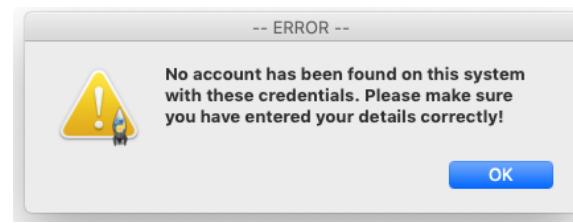
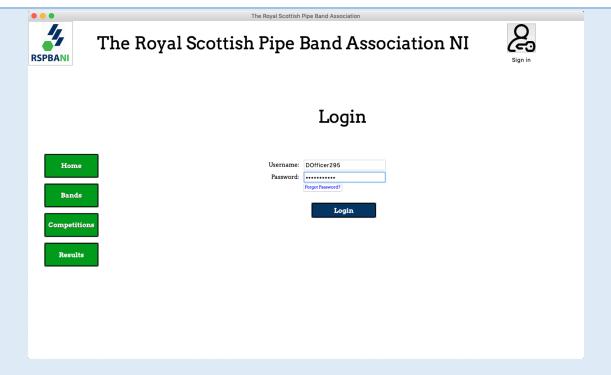
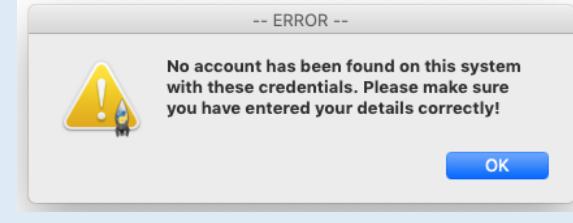
Grade 2 Results								
Band	Piping 1	Piping 2	Total Piping	Drumming	Ensemble	Total	Overall Position	
Vale of Atholl	1	1	2	1	1	4	1	
Ravara	2	2	4	2	2	8	2	

Test number	Issue	Resolution	Commentary
3	User was not informed that no bands had entered the competition when they received a results screen which has not been populated	<pre> def ResultsFrame(): def ViewResults(CompetitionSelected, CompetitionID, listOfGradeDrawBox, listOfCompsNameBox): def getResultsFromGrade(GradeSelected, BandsInComp, CompetitionID): GradeResults = [] if BandsInComp == []: lblSpacer = Label(FullResults, height=5) lblSpacer.grid(row=4) lblNoBandsEntered = Label(FullResults, text="No Bands have entered this grade.. Use the back button to select another grade in...") lblNoBandsEntered.grid(row=5, column=3, columnspan=2) PEP 8: line too long (176 > 120 characters) else: for bandID in BandsInComp: # for each Band get its Results from the results table conn = sqlite3.connect('RSPBANI.db') with conn: cursor = conn.cursor() getBandID = "SELECT Piping1Score, Piping2Score, TotalPipingScore, DrummingScore, EnsembleScore, TotalScore, Position FROM Results WHERE BandID = ?" cursor.execute(getBandID, (bandID, CompetitionID)) BandResults = cursor.fetchall() print("BandResults") print(BandResults) if BandResults: for R in BandResults: Piping1 = R[0] Piping2 = R[1] TotalPiping = R[2] Drumming = R[3] Ensemble = R[4] TotalScore = R[5] Position = R[6] GradeResults.append([bandID, Piping1, Piping2, TotalPiping, Drumming, Ensemble, TotalScore, Position]) else: GradeResults.append([bandID, None, None, None, None, None, None, None]) return GradeResults </pre>	To resolve this issue, I checked to see if any bands existed in the list for the grade. If the list was empty, then instead of trying to get the results for each band, my system will output a message to the screen telling the user what to do as they have selected a grade with no bands entered.

4. All users have the ability to login if they have an account.

Test number	Description of test	Test data type (Typical/ Extreme/ Invalid)	Tests data to be used	Expected outcome	Test type (Functional / logical)
1	Log in with admin credentials	Typical	Username - JStirling454 Password - fc4AM7DvH9	Welcome message box and user directed to home screen. Band buttons, admin buttons and judge buttons should appear for the user	Functional
2	Log in with band credentials	Typical	Username - Wayne_Byrne Password - Byrne_Wayne000	Welcome message box with their name and user directed to home screen. Only Band buttons should appear to user once logged on.	Functional
3	Log in with judge credentials	Typical	Username - DOfficer295 Password - gh67EC6Hi8	Welcome message box with their name and user directed to home screen. Only judge buttons should appear to user once logged on.	Functional
4	Log in with incorrect username	Invalid	Username - DOfficer295 Password – Password123	Displays an error message as an account with these credentials cannot be found.	Functional
5	Log in with incorrect password	Invalid	Username - DOfficer295 Password - DOfficer295	Displays an error message as an account with these credentials cannot be found.	Functional

Test number	Evidenced test data	Actual outcome	Outcome screenshot	Comments
1	 <p>The Royal Scottish Pipe Band Association NI</p> <p>Login</p> <p>Username: JString644 Password: ****@****</p> <p>Sign in</p> <p>Home Bands Competitions Results</p>	<p>Outcome was as expected – user has been logged on with correct access level; test has met this criterion.</p>	 <p>Welcome</p> <p>Welcome James. You have been successfully logged in.</p> <p>OK</p>  <p>The Royal Scottish Pipe Band Association NI</p> <p>Latest Results</p> <p>Competition Name: Ard And North Down Championships Competition Date: 12 May 2018 Grade 1 1st: Field Marshal Montgomery Grade 2 1st: Vale of Atholl 2nd: Marlboro and District Grade 3B 1st: McNeilstown 2nd: McNaughton 3rd: No Band Entered Grade 4B 1st: Broughshane and District</p> <p>Home Bands Competitions Results</p> <p>New Band New Judge New Admin New Competition Edit Competition Delete Competition Judge Competitions Send Results</p>	<p>Success – inputted credentials can never be extreme as they have been validated before they have been saved to database and there is no length limit on these fields.</p>
2	 <p>The Royal Scottish Pipe Band Association NI</p> <p>Login</p> <p>Username: Wayne_Byrne Password: ****@****</p> <p>Sign in</p> <p>Home Bands Competitions Results</p>	<p>Outcome was as expected – user has been logged on with correct access level; test has met this criterion.</p>	 <p>The Royal Scottish Pipe Band Association NI</p> <p>Latest Results</p> <p>Competition Name: Ard And North Down Championships Competition Date: 12 May 2018 Grade 1 1st: Field Marshal Montgomery Grade 2 1st: Vale of Atholl 2nd: Marlboro and District Grade 3B 1st: McNeilstown 2nd: McNaughton 3rd: No Band Entered Grade 4B 1st: Broughshane and District</p> <p>Home Bands Competitions Results</p> <p>New Band New Judge New Admin New Competition Edit Competition Delete Competition Judge Competitions Send Results</p>	<p>This test has passed</p>

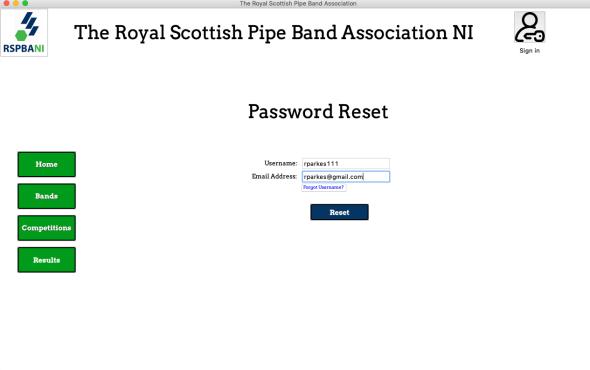
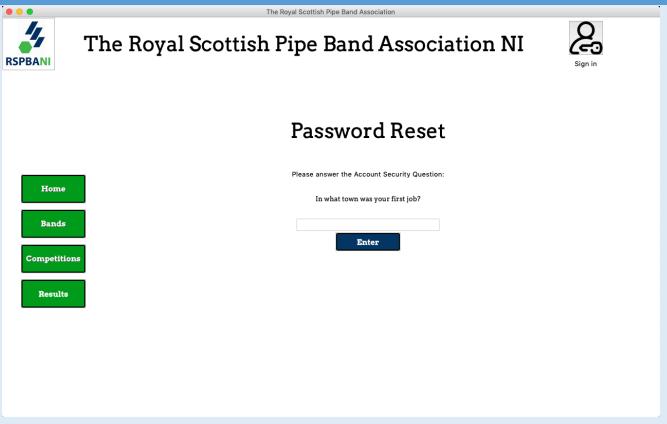
3	 <p>The Royal Scottish Pipe Band Association NI</p> <p>Login</p> <p>Username: DOOfficer295 Password: [REDACTED]</p> <p>Login</p> <p>Home Bands Competitions Results</p>	<p>Outcome was as expected – user has been logged on with correct access level; test has met this criterion.</p>	 <p>The Royal Scottish Pipe Band Association NI</p> <p>The Royal Scottish Pipe Band Association Northern Ireland Branch (RSPBANI) is a governing body to oversee Pipe band competition in Northern Ireland. We represent approximately seventy pipe bands in full membership of the association in Northern Ireland and over three thousand individual members.</p> <p>Home Bands Competitions Results</p> <p>Latest Results</p> <p>Competition Name: Ard And North Dews Championships Competition Date: 22/07/2017</p> <table border="1"> <thead> <tr> <th>Grade</th> <th>1st</th> <th>2nd</th> <th>3rd</th> </tr> </thead> <tbody> <tr> <td>Grade 1</td> <td>1st: St Marshal Montgomery</td> <td></td> <td></td> </tr> <tr> <td>Grade 2</td> <td>1st: Vale of Atholl</td> <td></td> <td></td> </tr> <tr> <td>Grade 3A</td> <td>1st: Monarchs and District</td> <td></td> <td></td> </tr> <tr> <td>Grade 3B</td> <td>1st: McNeiliowns</td> <td></td> <td></td> </tr> <tr> <td>Grade 4A</td> <td>1st: No Band Entered</td> <td></td> <td></td> </tr> <tr> <td>Grade 4B</td> <td>1st: Breaghbhanach and District</td> <td></td> <td></td> </tr> </tbody> </table> <p>Judge Competitions</p>	Grade	1st	2nd	3rd	Grade 1	1st: St Marshal Montgomery			Grade 2	1st: Vale of Atholl			Grade 3A	1st: Monarchs and District			Grade 3B	1st: McNeiliowns			Grade 4A	1st: No Band Entered			Grade 4B	1st: Breaghbhanach and District			<p>This test has passed</p>
Grade	1st	2nd	3rd																													
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4	 <p>The Royal Scottish Pipe Band Association NI</p> <p>Login</p> <p>Username: DOOfficer295 Password: [REDACTED]</p> <p>Login</p> <p>Home Bands Competitions Results</p>	<p>Outcome was as expected – User has been denied entry and user remains on log in screen; test has met this criterion.</p>	 <p>-- ERROR --</p> <p>No account has been found on this system with these credentials. Please make sure you have entered your details correctly!</p> <p>OK</p>	<p>This test has passed</p>																												
5	 <p>The Royal Scottish Pipe Band Association NI</p> <p>Login</p> <p>Username: DOOfficer295 Password: [REDACTED]</p> <p>Login</p> <p>Home Bands Competitions Results</p>	<p>Outcome was as expected – User has been denied entry and user remains on log in screen; test has met this criterion.</p>	 <p>-- ERROR --</p> <p>No account has been found on this system with these credentials. Please make sure you have entered your details correctly!</p> <p>OK</p>	<p>This test has passed</p>																												

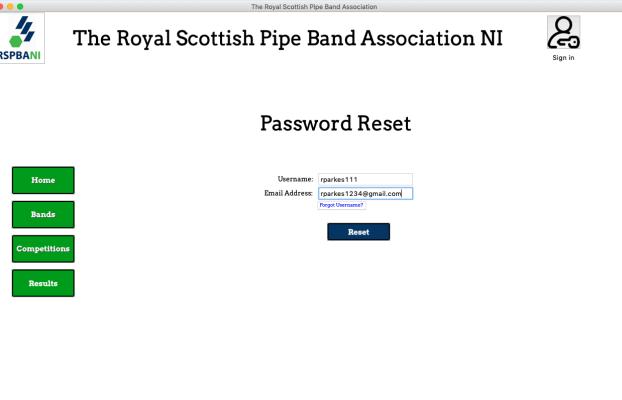
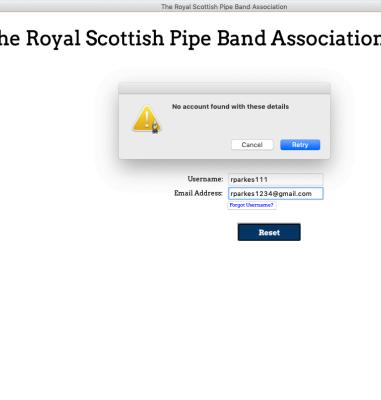
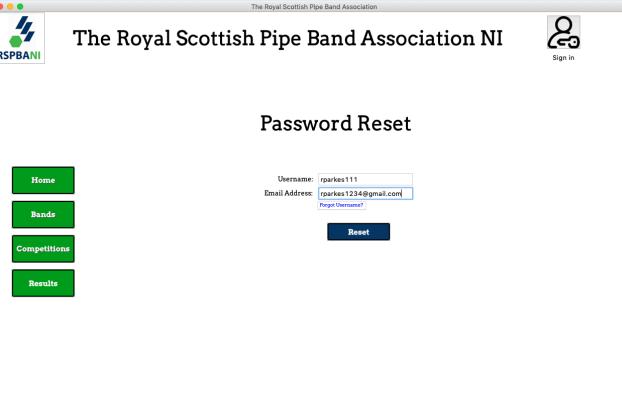
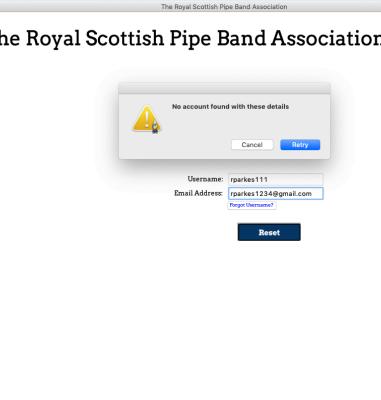
5. All Account holders have the ability to reset their login credentials.

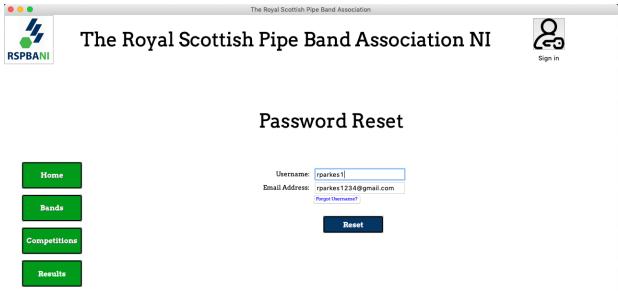
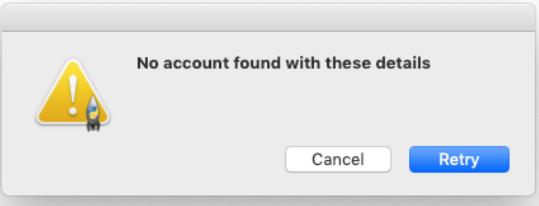
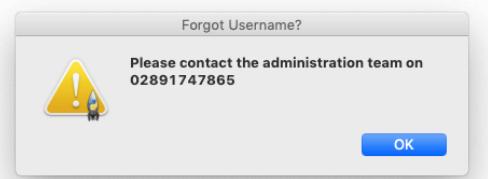
Test number	Description of test	Test data type (Typical/ Extreme/ Invalid)	Tests data to be used	Expected outcome	Test type (Functional / logical)
1	Attempting to reset password for Field Marshall Montgomery with correct username and email address	Typical	“rparkes111”, “rparkes@gmail.com”	The user will be then asked for their security question answer on a new page	Functional
2	Attempting to reset password for Field Marshall Montgomery with incorrect username	invalid	“rparkes1”, “rparkes@gmail.com”	An error message will appear indicating to the user that their username or email address does not match. Username and password fields will clear	Functional
3	Attempting to reset password for Field Marshall Montgomery with incorrect email address	invalid	“rparkes111”, “rparkes1234@gmail.com”	An error message will appear indicating to the user that their username or email address does not match. Username and password fields will clear	Functional
4	Attempting to reset password for Field Marshall Montgomery with incorrect email address and username	invalid	“rparkes1”, “rparkes1234@gmail.com”	An error message will appear indicating to the user that their username or email address does not match. Username and password fields will clear	Functional
5	Forgot username and password. User has clicked “forgot password” and then pressed “forgot username” button on next screen provided.	Typical	N/A – button press	A message presented to user explaining that they must contact an administrator on the number given.	Functional

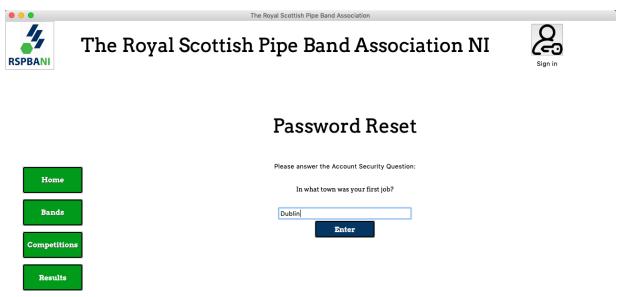
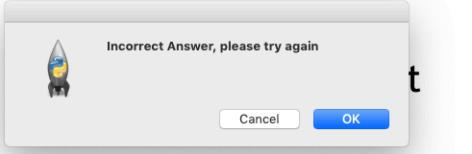
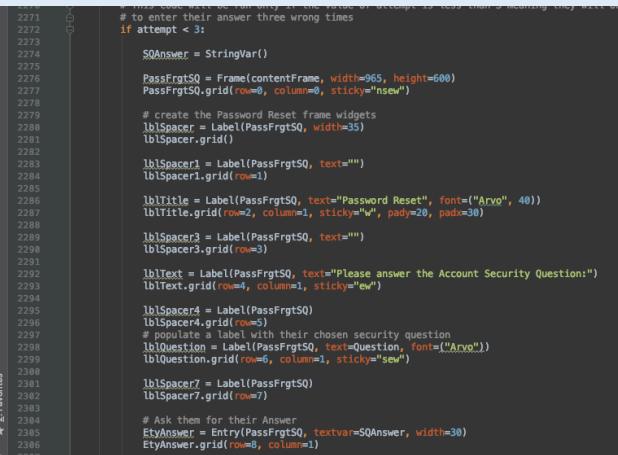
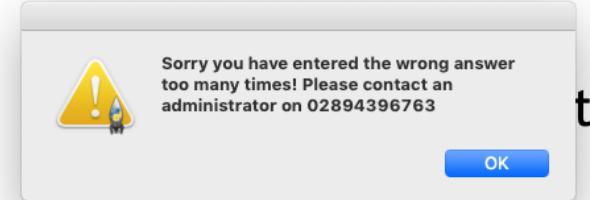
6	Attempting to reset password, entering security question after entering matching username and password	Invalid	“Dublin”	An error message will appear indicating to the user that their security question is incorrect. Answer field will clear	Functional
7	Attempting to reset password, entering security question after entering matching username and password. The user has entered their security question wrong three times.	Invalid	“Dublin” “dublin” “Belfast”	An error message will appear on the first two occasions indicating to the user that their security question is incorrect. Answer field will clear. On the third wrong occasion, the user will be prompted with another error message telling them they have tried incorrectly too many times and to contact an administrator.	Logical
8	Attempting to reset password - entering security question after entering matching username and password	Typical	“London”	The user will be then asked to enter their new password once they have been able to identify themselves.	Functional
9	Attempting to reset password – entering new password once successfully matching security question. Both passwords not meeting validation as there is no uppercase letter.	Invalid	“password123”, “password123”,	An error message will appear indicating to the user that their password must contain at least one uppercase character. User will remain on change password page.	Logical
10	Attempting to reset password – entering new password once successfully matching security question. Both passwords not meeting validation as they are shorter than 8 characters.	Invalid	“Pass123”, “Pass123”	An error message will appear indicating to the user that their password must be at least 8 characters in length. User will remain on change password page.	Logical
11	Attempting to reset password – entering new password once successfully matching security	Invalid	“P@ssWord”, “P@ssWord”	An error message will appear indicating to the user that their password must contain	Logical

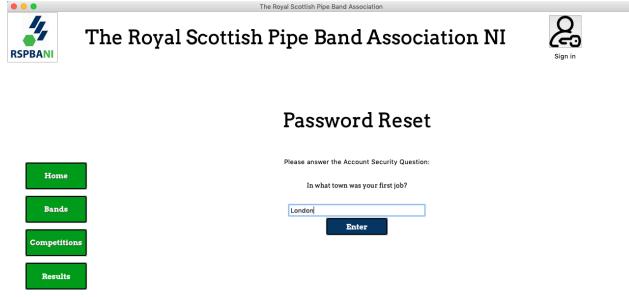
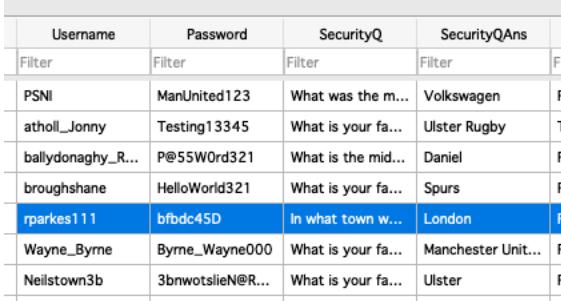
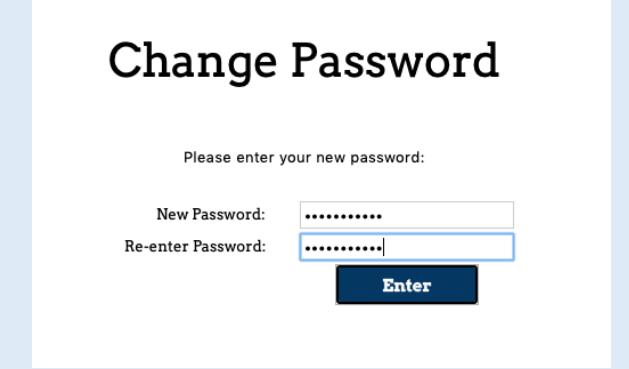
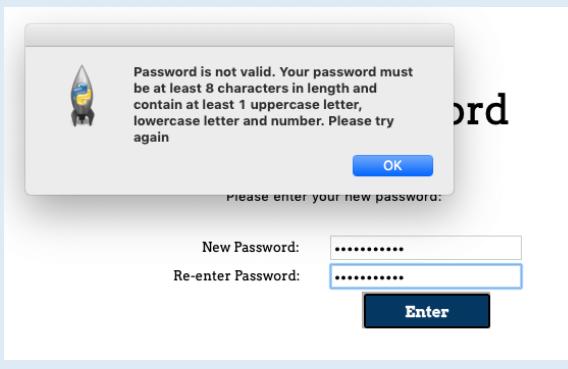
	question. Both passwords not meeting validation as they don't contain a number			more than one number. User will remain on change password page.	
12	Attempting to reset password – entering new password once successfully matching security question. Password changed and is eight characters in length	Extreme	"bfbdc45D", "bfbdc45D"	A message to user indicating that the user's password has been changed. User brought to the Login page.	Logical
13	Attempting to reset password – entering new password once successfully matching security question. Password fields do not match.	Invalid	"Password123", "Password321"	An error message to the user indicating to the user that the passwords they have entered do not match. User will remain on change password page.	Functional

Test number	Evidenced test data	Actual outcome	Outcome screenshot	Comments
1		As expected.		This test has passed.

2	 <p>The Royal Scottish Pipe Band Association NI</p> <p>Sign in</p> <p>Password Reset</p> <p>Username: rparkes111 Email Address: rparkes1234@gmail.com Forgot Username?</p> <p>Reset</p> <p>Home Bands Competitions Results</p>	As expected.	 <p>No account found with these details</p> <p>Cancel Retry</p>	This test has passed.
3	 <p>The Royal Scottish Pipe Band Association NI</p> <p>Sign in</p> <p>Password Reset</p> <p>Username: rparkes111 Email Address: rparkes1234@gmail.com Forgot Username?</p> <p>Reset</p> <p>Home Bands Competitions Results</p>	As expected.	 <p>No account found with these details</p> <p>Cancel Retry</p>	This test has passed.

4	 <p>As expected.</p>	 <p>No account found with these details</p> <p>Cancel Retry</p>	This test has passed.
5	N/A	 <p>Forgot Username?</p> <p>Please contact the administration team on 02891747865</p> <p>OK</p>	This test has passed

6	 <p>As expected.</p>	 <p>Please answer the Account Security Question:</p> <p>In what town was your first job?</p> <p>Dublin</p> <p>Enter</p>	This test has passed.
7	 <pre> 2271 # This code will run only if the value of attempt is less than 3 2272 # to enter their answer three wrong times 2273 2274 # attempt < 3: 2275 2276 \$QAnswer = StringVar() 2277 2278 PassFrgtSQ = Frame(contentFrame, width=965, height=600) 2279 PassFrgtSQ.grid(row=0, column=0, sticky="nsew") 2280 2281 lblSpacer = Label(PassFrgtSQ, width=35) 2282 lblSpacer.grid() 2283 2284 lblSpacer1 = Label(PassFrgtSQ, text="") 2285 lblSpacer1.grid(row=1) 2286 2287 lblTitle = Label(PassFrgtSQ, text="Password Reset", font=("Arvo", 40)) 2288 lblTitle.grid(row=2, column=1, sticky="w", pady=20, padx=30) 2289 2290 lblSpacer2 = Label(PassFrgtSQ, text="") 2291 lblSpacer2.grid(row=3) 2292 2293 lblText = Label(PassFrgtSQ, text="Please answer the Account Security Question:") 2294 lblText.grid(row=4, column=1, sticky="ew") 2295 2296 lblSpacer4 = Label(PassFrgtSQ) 2297 lblSpacer4.grid(row=5) 2298 2299 # populate a label with their chosen security question 2300 lblQuestion = Label(PassFrgtSQ, text="Question", font=("Arvo")) 2301 lblQuestion.grid(row=6, column=1, sticky="sew") 2302 2303 lblSpacer7 = Label(PassFrgtSQ) 2304 lblSpacer7.grid(row=7) 2305 2306 # Ask them for their Answer 2307 EtyAnswer = Entry(PassFrgtSQ, textvariable=\$QAnswer, width=30) 2308 EtyAnswer.grid(row=8, column=1) </pre>	 <p>Please answer the Account Security Question:</p> <p>In what town was your first job?</p> <p>Belfast</p> <p>Enter</p>	This test has passed.

		As expected.		This test has passed																																
8			 <p>This screenshot shows a database table with columns: Username, Password, SecurityQ, and SecurityQAns. The table contains several rows of user data. One row is highlighted in blue, matching the answer provided in the screenshot above.</p> <table border="1"><thead><tr><th>Username</th><th>Password</th><th>SecurityQ</th><th>SecurityQAns</th></tr></thead><tbody><tr><td>PSNI</td><td>ManUnited123</td><td>What was the m...</td><td>Volkswagen</td></tr><tr><td>atholl_Jonny</td><td>Testing13345</td><td>What is your fa...</td><td>Ulster Rugby</td></tr><tr><td>ballydonaghy_R...</td><td>P@55W0rd321</td><td>What is the mid...</td><td>Daniel</td></tr><tr><td>broughshane</td><td>HelloWorld321</td><td>What is your fa...</td><td>Spurs</td></tr><tr style="background-color: #0070C0; color: white;"><td>rparkes111</td><td>bfdc45D</td><td>In what town w...</td><td>London</td></tr><tr><td>Wayne_Byrne</td><td>Byrne_Wayne000</td><td>What is your fa...</td><td>Manchester Unit...</td></tr><tr><td>Neilstown3b</td><td>3bnwotslieN@R...</td><td>What is your fa...</td><td>Ulster</td></tr></tbody></table> <p>This screenshot shows that the security question answer matches the answer in the database allowing the user to change their password.</p>	Username	Password	SecurityQ	SecurityQAns	PSNI	ManUnited123	What was the m...	Volkswagen	atholl_Jonny	Testing13345	What is your fa...	Ulster Rugby	ballydonaghy_R...	P@55W0rd321	What is the mid...	Daniel	broughshane	HelloWorld321	What is your fa...	Spurs	rparkes111	bfdc45D	In what town w...	London	Wayne_Byrne	Byrne_Wayne000	What is your fa...	Manchester Unit...	Neilstown3b	3bnwotslieN@R...	What is your fa...	Ulster	
Username	Password	SecurityQ	SecurityQAns																																	
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rparkes111	bfdc45D	In what town w...	London																																	
Wayne_Byrne	Byrne_Wayne000	What is your fa...	Manchester Unit...																																	
Neilstown3b	3bnwotslieN@R...	What is your fa...	Ulster																																	
9	 <p>This screenshot shows a 'Change Password' page. It includes fields for 'New Password' and 'Re-enter Password', both containing placeholder dots. Below these fields is an 'Enter' button. A modal dialog box is displayed, stating: 'Password is not valid. Your password must be at least 8 characters in length and contain at least 1 uppercase letter, lowercase letter and number. Please try again'. The 'OK' button of the dialog is highlighted with a blue rectangle.</p>	As expected	 <p>This screenshot shows the same 'Change Password' page as the one above, but with different input values. The 'New Password' field now contains a longer string of characters, and the 'Re-enter Password' field contains the same string. The 'Enter' button is visible below the fields. The modal dialog box from the previous screenshot is still present, indicating that the password is valid.</p>	This test has passed																																

	<h2>Change Password</h2> <p>Please enter your new password:</p> <p>New Password: <input type="password"/>.....</p> <p>Re-enter Password: <input type="password"/>.....</p> <p>Enter</p>	As expected.	<p>OK</p> <p>Please enter your new password:</p> <p>New Password: <input type="password"/>.....</p> <p>Re-enter Password: <input type="password"/>.....</p> <p>Enter</p>	This test has passed
11	<p>OK</p> <p>Please enter your new password:</p> <p>New Password: <input type="password"/>.....</p> <p>Re-enter Password: <input type="password"/>.....</p> <p>Enter</p>	As expected.	<p>OK</p> <p>Please enter your new password:</p> <p>New Password: <input type="password"/>.....</p> <p>Re-enter Password: <input type="password"/>.....</p> <p>Enter</p>	This test has passed

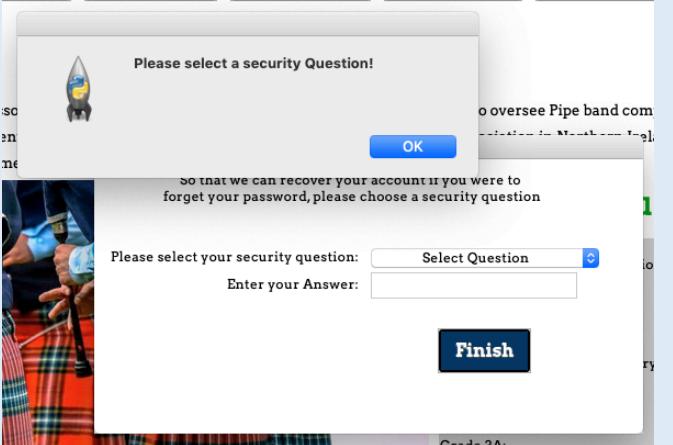
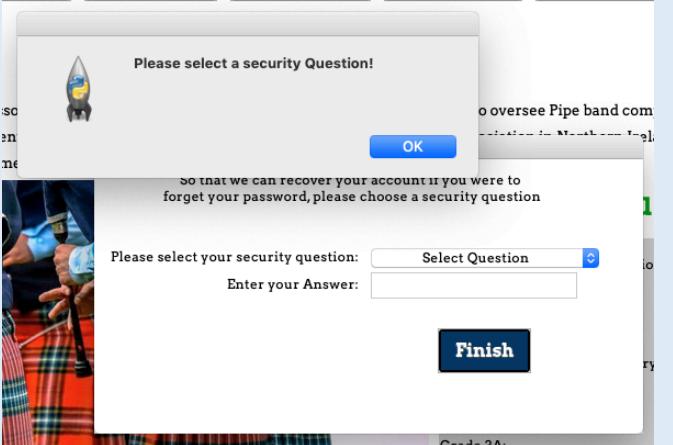
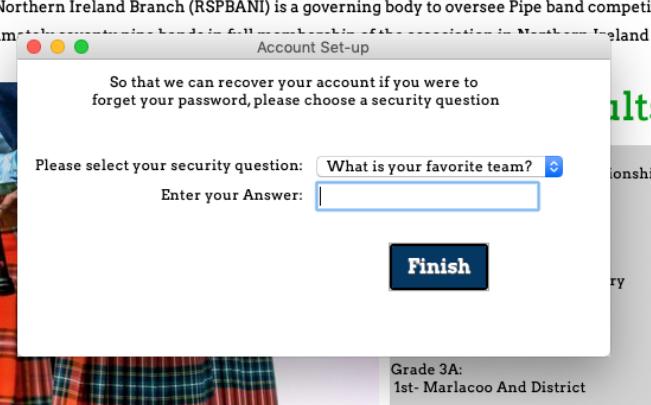
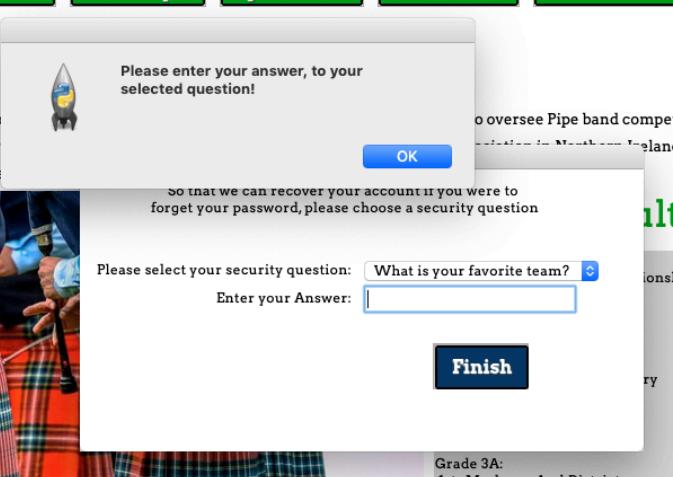
12	<h2>Change Password</h2> <p>Please enter your new password:</p> <p>New Password: Re-enter Password:</p> <p>Enter</p>	As expected.	 <p>Password Successfully Changed</p> <p>OK</p>	This test has passed
13	<h2>Change Password</h2> <p>Please enter your new password:</p> <p>New Password: Re-enter Password:</p> <p>Enter</p>	As expected.	 <p>Passwords do not match, please try again</p> <p>OK</p>	This test has passed

6. Update and set password, security question and answer when accounts are logged in for the first time.

Test number	Description of test	Test data type (Typical/ Extreme/ Invalid)	Tests data to be used	Expected outcome	Test type (Functional / logical)
1	Logging into an account which has just been initialised by an admin. (FirstLogIn = True)	Typical	N/A	Pop up screen will appear asking user to update and set their password.	Functional
2	Validation of password	Invalid	N/A	Password will not be accepted unless both match and password contain at least 8 characters long and contains lowercase, uppercase and numbers.	Functional
3	After setting a valid password in the first-time log in. The user must select a security question and provide an answer. None given	Invalid	No security question selected, no answer given	An error message indicating that the user must select a question.	Functional
4	After setting a valid password in the first-time log in. The user must select a security question and provide an answer. Question selected but no answer given.	Invalid	What is your favourite team?, “”	An error message indicating that the user must provide an answer to their chosen question.	Functional
5	After setting a valid password in the first-time log in. The user must select a security question and provide an answer.	Typical	What is your favourite team?, “Northern Ireland”	Updated password saved to database (see objective 5, test 10)	Functional

				Security question and their answer saved to database. FirstLogIn set to True in database	
--	--	--	--	---	--

Test number	Evidenced test data	Actual outcome	Outcome screenshot	Comments																														
1	<table border="1"> <thead> <tr> <th>Username</th><th>Password</th><th>SecurityQ</th><th>SecurityQAns</th><th>FirstLogin</th></tr> </thead> <tbody> <tr> <td>Filter</td><td>Filter</td><td>Filter</td><td>Filter</td><td>Filter</td></tr> <tr> <td>PSNI</td><td>ManUnited123</td><td>What was the m...</td><td>Volkswagen</td><td>False</td></tr> <tr> <td>atholl_Jonny</td><td>Testing13345</td><td>What is your fa...</td><td>Ulster Rugby</td><td>True</td></tr> <tr> <td>ballydonaghy_R...</td><td>P@55WOrd321</td><td>What is the mid...</td><td>Daniel</td><td>True</td></tr> <tr> <td>broughshane</td><td>HelloWorld321</td><td>What is your fa...</td><td>Sours</td><td>False</td></tr> </tbody> </table> <p>FirstLogin is set to True as the band has not been logged in before</p>	Username	Password	SecurityQ	SecurityQAns	FirstLogin	Filter	Filter	Filter	Filter	Filter	PSNI	ManUnited123	What was the m...	Volkswagen	False	atholl_Jonny	Testing13345	What is your fa...	Ulster Rugby	True	ballydonaghy_R...	P@55WOrd321	What is the mid...	Daniel	True	broughshane	HelloWorld321	What is your fa...	Sours	False	As expected.		This has partly passed. I must disable this pop up window so that the user cannot exit out of it without finishing their account set up.
Username	Password	SecurityQ	SecurityQAns	FirstLogin																														
Filter	Filter	Filter	Filter	Filter																														
PSNI	ManUnited123	What was the m...	Volkswagen	False																														
atholl_Jonny	Testing13345	What is your fa...	Ulster Rugby	True																														
ballydonaghy_R...	P@55WOrd321	What is the mid...	Daniel	True																														
broughshane	HelloWorld321	What is your fa...	Sours	False																														
2	This is evidenced in the “Forgot Password” objective (5) and uses the same programming constructs.	As expected.	N/A	I have not shown my test for this as I would have been testing the same code as in the re setting password from objective number 5. Please see Tests 9-13.																														

		As expected.		This test has passed
3	N/A			
4		As expected.		This test has passed.

5

Association Northern Ireland Branch (RSPBANI) is a governing body to oversee Pipe band competition
resent approxim...
al members.

So that we can recover your account if you were to
forget your password, please choose a security question

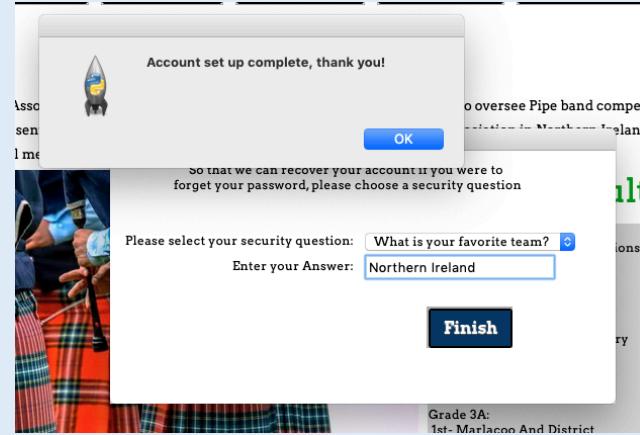
Please select your security question: What is your favorite team? Enter your Answer: Northern Ireland

Finish

Grade 3A:
1st- Marlacoo And District

Grade 3B:
1st- Mc Neilstown

As expected.



This shows the updated security questions being committed to the database and stored against the account logged in

Username	Password	SecurityQ	SecurityQAns	FirstLogin
PSNI	ManUnited123	What was the m...	Volkswagen	False
atholl_Jonny	13345Testing	What is your fa...	Northern Ireland	False

This test has passed

7. Band accounts will have the ability to update the Bands details & their band members details.

Validation routines that exist are the same as the registering band & registering member forms. I therefore will not test the validation – it can be seen in **objective 10**.

Update Band Details:

Test number	Description of test	Test data type (Typical/ Extreme/ Invalid)	Tests data to be used	Expected outcome	Test type (Functional / logical)
1	Updating bands details. – Vale of Atholl.	Typical	Band Name = “Vale” Pipe Major’s First Name = “Matthew” Pipe Major’s Second Name = “Hull” EmailAddress = “matthewHull23456@gmail.com”	The user will be presented with a message box to confirm the changes to the band account. BandAccount table will reflect these changes. The respective fields will be updated to contain the test data in replace of the original data. Email sent to the new pipe major’s email address to confirm changes User brought back to home screen.	Functional

Test
number

Evidenced test data

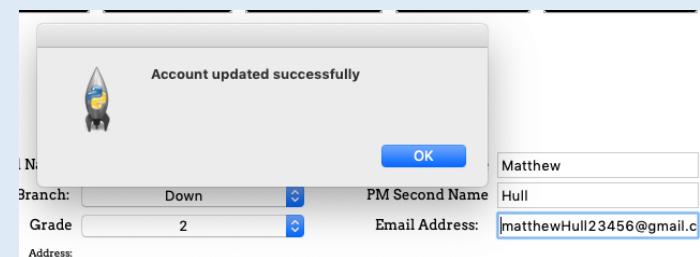
Actual
outcome

Outcome screenshot

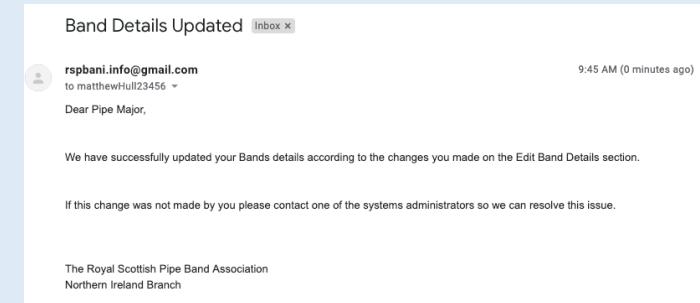
Comments

BandAccount												
BandID	BandName	BandBranch	BandGrade	PMBidName	PMBidName	EmailAddress	HofName	BandAddressLine1	BandAddressLine2	BandCounty		
1	PDN	Armagh	1	Cherry	Dahane	cherry.martin12@gmail.com	Margher F.	10 Bellfield Road	Bellfield	County Armagh	BT	
2	Vale Of Arrell	Down	2	Jonny	Flaming	jonny.martin12@gmail.com	McDerry P.	40 Vale Road	Vale Road	County Down	BT	
3	4	Sullivanity	4B	Alastair	McDerry	AAAK-McDerry12@gmail.com	The Mount	13 Garvaghdown...	Oranmore	County Armon	BT	
4	Brighousehill District	Armagh	4A	David	McArdle	ross.martin12@gmail.com	Broughshane	20 Broughshane...	Broughshane	County Armon	BT	
5	6	Drumcree Montgomery	Armagh	1	Mark	Feeks	Mark Co.	20 Portlatch...	Portlatch	County Aragh	BT	
6	Marlcoo And District	Armagh	3A	Wayne	Byrne	Willymrs543@gmail.com	Marlcoo Or...	130 Marlcoo R...	Portlatch	County Aragh	BT	
7	8	Mc Neilltown	Armagh	3B	Robbie	Bellingham	Rhoddmhan132@gmail.com	30 Blackstone ...	Portkennet	County Aragh	BT	
8	9	Revars	Down	Z	Alastair	Dunne	ross.martin12@gmail.com	Revars On...	2 Ventry Road	Ballymoney	County Down	BT
9	10	Gowrie	Londonderry	2	Mark	Hasson Jr	Mhasson0512@gmail.com	Unit 6	10 Northwest B...	Skene Industrial Est...	County Lond...	BT
10	15	Top Star Of The North	Armagh	4B	Alastair	Bellingham	Aldergorm1964@gmail.com	Top Star ...	Ballymoney	County Aragh	BT	

As expected.



These screenshots show the message box presented to the user and the email received by the pipe major.



This test has passed.

1

These details populated in the edit band details page.

The Royal Scottish Pipe Band Association NI

Edit Band Details

Band Name: Vale
Branch: Down
Grade: 2
Address:
Hall Name:
Line 1: 40 Vale Road
Line 2:
County: County Down
Postcode: BT76 8UG
Practice Times: Tuesday 8-10pm
Tartan: Arroll

PM First Name: Matthew
PM Second Name: Hull
Email Address: matthew.hull2345@gmail.com
Username: alhull_jony
Password: 12345Testing

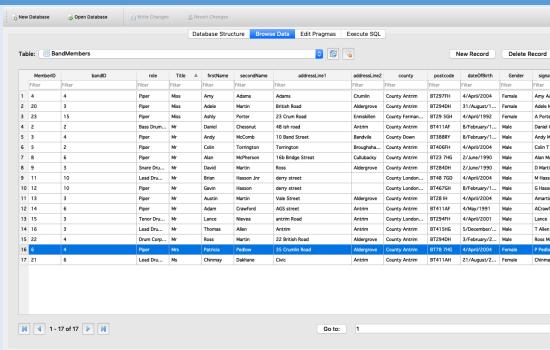
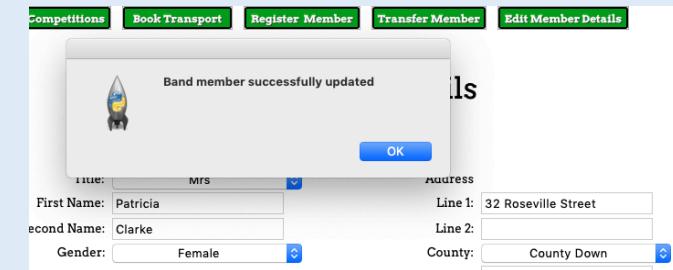
Update Band

Evidence of edited details.

Update Band Member Details:

Test number	Description of test	Test data type (Typical/ Extreme/ Invalid)	Tests data to be used	Expected outcome	Test type (Functional / logical)
1	Updating members details. –	Typical	Second Name = "Clarke" AddressLine 1 = "32 Roseville Street" AddressLine2 = "" County = Co.Down	The user will be presented with a message box to confirm the changes to the Member. BandMembers table will reflect these changes. The respective fields will be updated to contain the test data in replace of the original data.	Functional

		<p>Postcode = "BT18 5GH"</p> <p>EmailAddress = "Patricia.Clarke543@gmail.com"</p>	<p>Email sent to pipe major to confirm changes about their member.</p> <p>Member should also receive confirmation of updating.</p> <p>Members name will appear updated in the list box to select a member to edit.</p>	
--	--	---	--	--

Test number	Evidenced test data	Actual outcome	Outcome screenshot	Comments
1	 <p>Database before</p>	As expected	 <p>This screenshot confirms the updated details have been committed the database.</p>	

The details of the database populated on form.

This screenshot shows the name of the member updated in the edit member details list box.

Evidence form with test data before committing update.

Edit Member Details

Please select the member to edit

Ross Martin
 Patricia Clarke
 Amy Adams
 Andy McComb

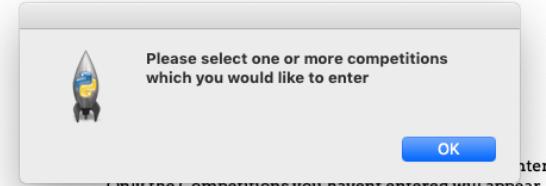
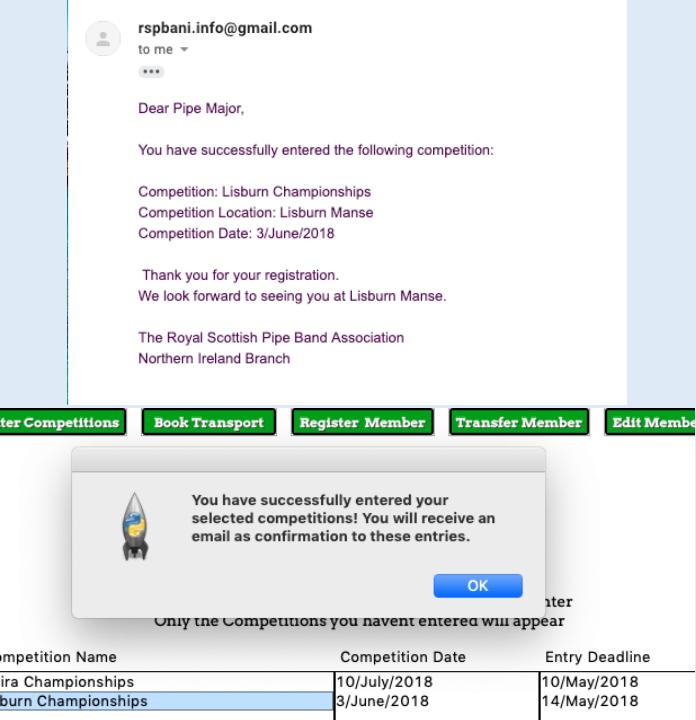
Select Member

8. Bands will have the ability to enter and withdraw from competitions

Test number	Description of test	Test data type (Typical/ Extreme/ Invalid)	Tests data to be used	Expected outcome	Test type (Functional / logical)
1	Displaying a list of all competitions the band hasn't entered and still can enter in a list box.	Typical	Logged in as Ravara (BandID is 9) Comps entered are: 2,7,11,12,13 Competitions not entered are: 1,3,14,15 Competitions not drawn are: 14,15	A list of competitions not entered and not drawn. The list should include two competitions for Ravara, these being Moira championships (15) and Lisburn Championships (14)	Logical
2	Attempt to enter a competition with no competitions selected	Invalid	None	An error message telling the user to select one or more competitions to be able to enter	Functional
3	Selecting one competition to enter	Typical	Lisburn Championships	An on-screen message telling user that they have successfully entered the competition(s) and they will receive a confirmation via email. Email received to pipe majors email address confirming entry.	Functional
4	Selecting multiple competitions to enter	Typical	Lisburn Championships & Moira Championships	An on-screen message telling user that they have successfully entered the competition(s) and they will receive a confirmation via email. Email received to pipe majors email address confirming entry for each competition.	Functional

5	Selecting a competition to withdraw from which has already been drawn	Typical	Ards and North Down Championships	A confirmation message asking if they want to withdraw. On yes button, an error message presented to user stating that the competition cannot be withdrawn from as the draw has already taken place. On no press user returned to withdraw page.	Functional
6	Selecting a competition to withdraw from which hasn't been drawn	Typical	Moira Championships	A confirmation message asking if they want to withdraw. On yes button, a message to confirm withdraw from competition. Email sent to confirm. Moira is removed from list box.	Functional

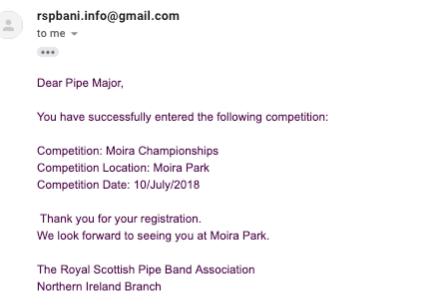
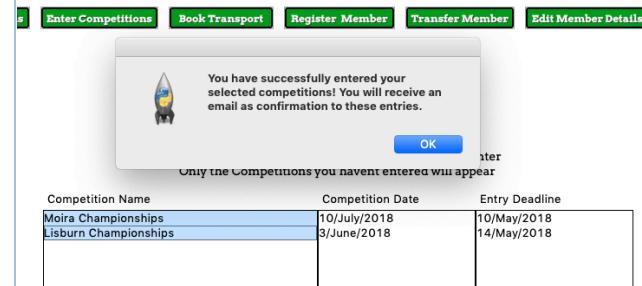
Test number	Evidenced test data	Actual outcome	Outcome screenshot	Comments
1	<p>Table: Competitions</p> <p>New Record Delete Record</p>	As expected.		This test has passed
	<p>Table: BandsEntered</p> <p>New Record Delete Record</p>			

2	N/A	As expected.	 <p>Please select one or more competitions which you would like to enter</p> <p>OK</p> <p>Only the Competitions you havent entered will appear</p> <table border="1"> <thead> <tr> <th>Competition Name</th> <th>Competition Date</th> <th>Entry Deadline</th> </tr> </thead> <tbody> <tr> <td>More Championships</td> <td>10/July/2018</td> <td>10/May/2018</td> </tr> <tr> <td>Lisburn Championships</td> <td>3/June/2018</td> <td>14/May/2018</td> </tr> </tbody> </table>	Competition Name	Competition Date	Entry Deadline	More Championships	10/July/2018	10/May/2018	Lisburn Championships	3/June/2018	14/May/2018
Competition Name	Competition Date	Entry Deadline										
More Championships	10/July/2018	10/May/2018										
Lisburn Championships	3/June/2018	14/May/2018										
3		As expected	 <p>rspbani.info@gmail.com to me</p> <p>Dear Pipe Major,</p> <p>You have successfully entered the following competition:</p> <p>Competition: Lisburn Championships Competition Location: Lisburn Manse Competition Date: 3/June/2018</p> <p>Thank you for your registration. We look forward to seeing you at Lisburn Manse.</p> <p>The Royal Scottish Pipe Band Association Northern Ireland Branch</p> <p>You have successfully entered your selected competitions! You will receive an email as confirmation to these entries.</p> <p>OK</p> <p>Only the Competitions you havent entered will appear</p> <table border="1"> <thead> <tr> <th>Competition Name</th> <th>Competition Date</th> <th>Entry Deadline</th> </tr> </thead> <tbody> <tr> <td>More Championships</td> <td>10/July/2018</td> <td>10/May/2018</td> </tr> <tr> <td>Lisburn Championships</td> <td>3/June/2018</td> <td>14/May/2018</td> </tr> </tbody> </table>	Competition Name	Competition Date	Entry Deadline	More Championships	10/July/2018	10/May/2018	Lisburn Championships	3/June/2018	14/May/2018
Competition Name	Competition Date	Entry Deadline										
More Championships	10/July/2018	10/May/2018										
Lisburn Championships	3/June/2018	14/May/2018										

4

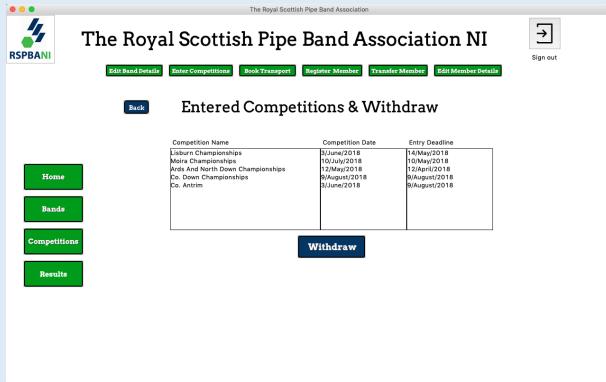
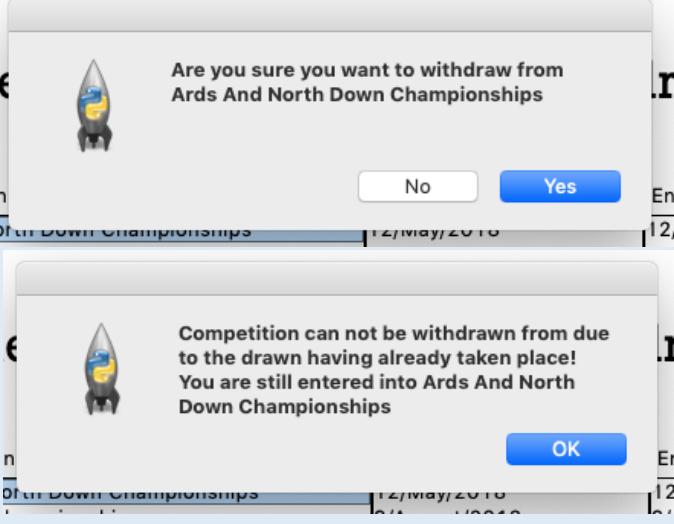
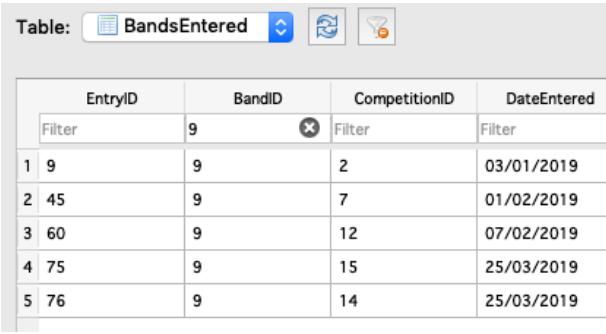
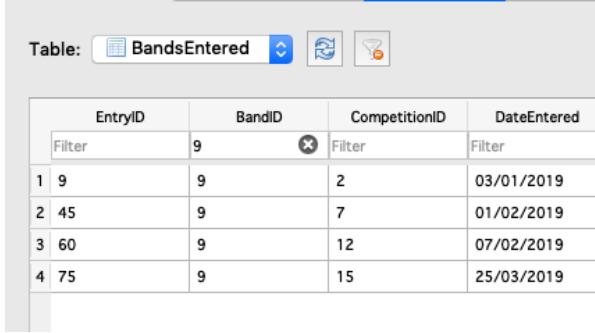
The screenshot shows the 'Enter Competitions' page of the RSPBANI website. At the top, there's a navigation bar with links for Home, Bands, Competitions, and Results. Below the navigation is a main content area titled 'Enter Competitions'. It contains a table with three columns: 'Competition Name', 'Competition Date', and 'Entry Deadline'. Two rows are visible: 'Moira Championships' (Date: 10/July/2018, Deadline: 10/May/2018) and 'Lisburn Championships' (Date: 3/June/2018, Deadline: 14/May/2018). Below the table are two buttons: 'Select Competition(s)' and 'View Entered Competitions & Withdraw'.

As expected.

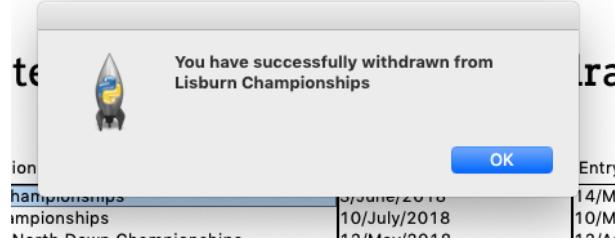


This test has passed

The screenshots here show the emails received by the pipe major on entering competitions

5		As expected		This test has passed																								
6	 <table border="1"> <thead> <tr> <th>EntryID</th> <th>BandID</th> <th>CompetitionID</th> <th>DateEntered</th> </tr> </thead> <tbody> <tr> <td>1 9</td> <td>9</td> <td>2</td> <td>03/01/2019</td> </tr> <tr> <td>2 45</td> <td>9</td> <td>7</td> <td>01/02/2019</td> </tr> <tr> <td>3 60</td> <td>9</td> <td>12</td> <td>07/02/2019</td> </tr> <tr> <td>4 75</td> <td>9</td> <td>15</td> <td>25/03/2019</td> </tr> <tr> <td>5 76</td> <td>9</td> <td>14</td> <td>25/03/2019</td> </tr> </tbody> </table>	EntryID	BandID	CompetitionID	DateEntered	1 9	9	2	03/01/2019	2 45	9	7	01/02/2019	3 60	9	12	07/02/2019	4 75	9	15	25/03/2019	5 76	9	14	25/03/2019	As expected.	 <p>This screenshot above show that the band that has entered does not appear in this table anymore so can not be drawn.</p>	This test has passed
EntryID	BandID	CompetitionID	DateEntered																									
1 9	9	2	03/01/2019																									
2 45	9	7	01/02/2019																									
3 60	9	12	07/02/2019																									
4 75	9	15	25/03/2019																									
5 76	9	14	25/03/2019																									

[Competitions](#) [Book Transport](#) [Register Member](#) [Transfer Member](#)



Withdrawal confirmation [Inbox](#) [x](#)



[rspbani.info@gmail.com](#)

[to me](#) [▼](#)

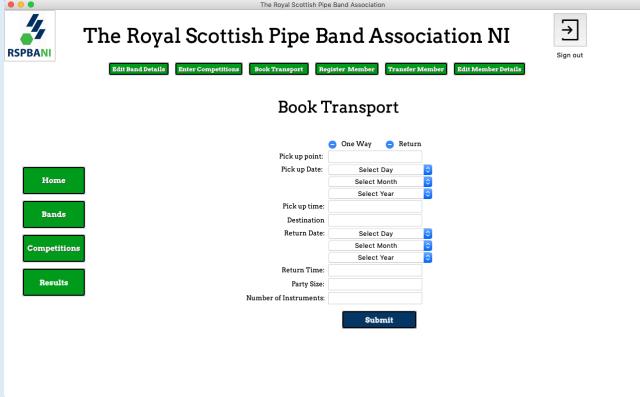
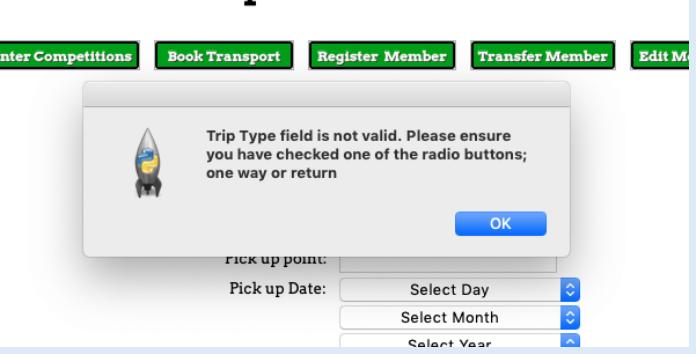
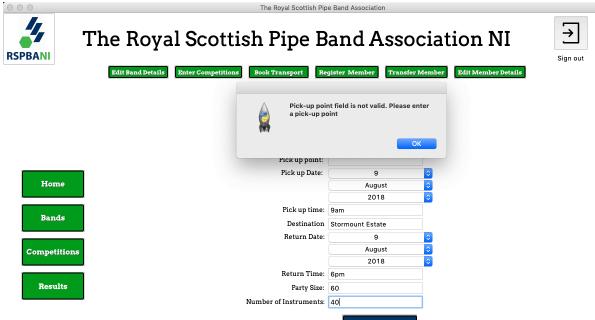
Dear Pipe Major,

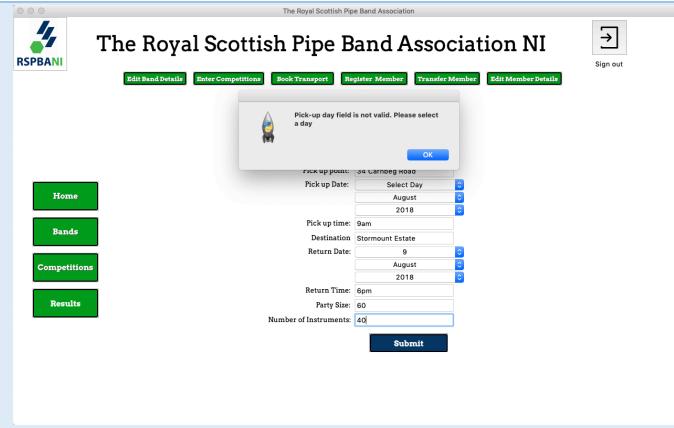
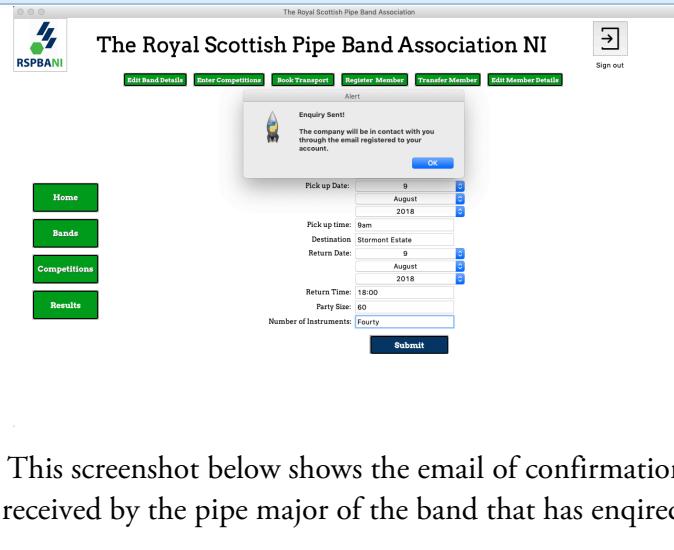
This email is of confirmation of your withdrawal from Lisburn Championships on 3/June/2018.
If you wish to re-enter this competition, the entry deadline is 14/May/2018.

The Royal Scottish Pipe Band Association
Northern Ireland Branch

9. Bands have the option of booking transport.

Test number	Description of test	Test data type (Typical/ Extreme/ Invalid)	Tests data to be used	Expected outcome	Test type (Functional / logical)
1	Attempt to book transport without completing the given form. / Validation check for the trip type radio buttons.	Invalid	None	An error message will appear. It will be thrown on the trip type validation if form is empty. Message will say trip type is invalid. User to remain on Book Transport page	Functional
2	Presence check validation for: Pick-up point, pick-up time, Destination, return time, party size and number of instruments.	Invalid	Blank pick-up point field	An error message indicating to the user that the pick-up field is invalid and requesting to enter a pick-up point. User returned to same form.	Functional
3	Date validation check for: Pick-up Day, Pick-up Month, Pick-up Year, Return Day, Return Month, Return Year.	Invalid	Blank pick-up day	An error message indicating to the user that the pick-up day is invalid and requesting to enter a pick-up day. User returned to same form.	Functional
4	Submitting the completed enquiry	Typical	One Way, “34 Carnbeg Road” 9 August 2018, “9am” “Stormont Estate” 9 August 2018, “18:00” “60” “Fourty”	User will receive a message indicating that their enquiry has been sent. A word document is generated with details provided and is attached to an email and sent to the bus company Pipe Major will also receive a copy for his/her reference	

Test number	Evidenced test data	Actual outcome	Outcome screenshot	Comments
1	 <p>The Royal Scottish Pipe Band Association NI</p> <p>Book Transport</p> <p>One Way Return</p> <p>Pick up point:</p> <p>Pick up Date: Select Day Select Month Select Year</p> <p>Pick-up time:</p> <p>Destination:</p> <p>Return Date: Select Day Select Month Select Year</p> <p>Return Time:</p> <p>Party Size:</p> <p>Number of Instruments:</p> <p>Submit</p>	As expected	 <p>Trip Type field is not valid. Please ensure you have checked one of the radio buttons; one way or return</p> <p>OK</p>	
2	N/A	As expected	 <p>Pick-up point field is not valid. Please enter a pick-up point</p> <p>OK</p> <p>Pick up point:</p> <p>Pick up Date: 9 August 2018</p> <p>Pick up time: 8am</p> <p>Destination: Stormont Estate</p> <p>Return Date: 9 August 2018</p> <p>Return Time: 6pm</p> <p>Party Size: 60</p> <p>Number of Instruments: 40</p> <p>Submit</p>	<p>The function for this presence check is used throughout the stated fields in the test description and works for all fields.</p>

3	N/A			<p>The function for this date check is used throughout the stated fields in the test description and works for all fields.</p>
4	N/A		 <p>This screenshot below shows the email of confirmation received by the pipe major of the band that has enquired.</p>	

 rspbani.booktransport@gmail.com

[to me](#)

9:35 PM (3 minutes ago)



Dear Pipe Major,
Please find attached a copy of your recent enquiry which has been sent to the bus company. They will be directly in contact with you in the near future to confirm this itinerary.

The Royal Scottish Pipe Band Association
Northern Ireland Branch



This screenshot below shows the email received by the bus company along with enquiry attached.

Transport Enquiry - Ravara [Inbox x](#)



rspbani.booktransport@gmail.com
to me ▾

🕒 9:36 PM (0 minutes ago)

Dear Sirs,

Please see attached enquiry for Ravara who wish to make travel arrangements with you. Please contact the band directly on the email address provided.

The Royal Scottish Pipe Band Association
Northern Ireland Branch



◀ Reply ⏷ Forward



RSPBANI Booking Enquiry

Ravara would like to book transport with you. Please find their booking requirements below:

Trip Type: One Way

Pick-up Location: 32 Carnbeg Road

Pick-up Date: 9 / August / 2018

Pick-up Departure Time: 9am

Destination: Stormont Estate

Return Date: 9 / August / 2018

Return Departure Time: 18:00

Party Size: 60

Number Instruments: Fourty

Pipe Major's Email Address: ross.martin1201@gmail.com

10. Bands have the ability to register new players and transfer existing members.

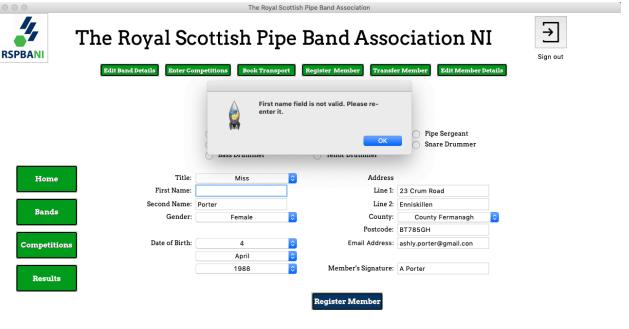
I will only show testing extreme data when registering new users or updating users below as the validation used is the same throughout all these features for each specific field.

Register new band members: - For all below I will be registering new members to Broughshane.

Test number	Description of test	Test data type (Typical/ Extreme/ Invalid)	Tests data to be used	Expected outcome	Test type (Functional / logical)
1	Attempt to register a new member without completing registration form. This is also my validation test	Invalid	None	An error message will appear. It will be thrown on the role validation if form is empty. Message will say Role is invalid. User to remain on Register Member page.	Functional
2	Alphabetic check validation for: first name, second name and Member's signature fields.	Invalid	Blank first name field	An error message indicating to the user that the first name field is invalid and requesting to User returned to same form.	Functional
3	Droplist check validation for: Title, Gender, Day of birth, Month of birth, Year of birth, County	Invalid	No selected title.	An error message indicating to the user that they haven't selected a title. User returned to same form.	Functional
4	Address Line One field validation; - empty	Invalid	Blank Address line one	An error message presented to user telling them that their address line one is invalid. It must include house number and road. User returned to same form.	Functional

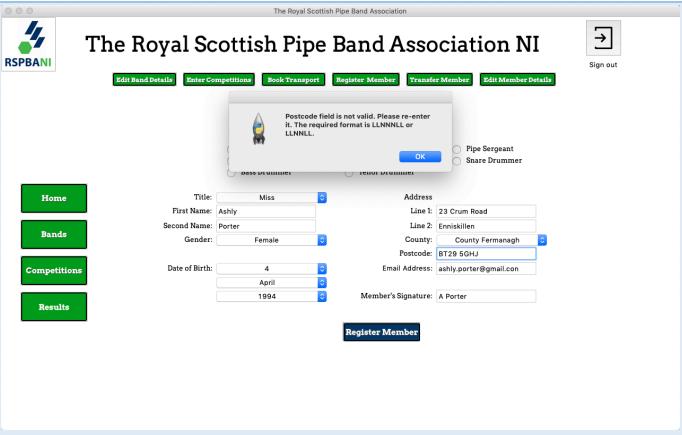
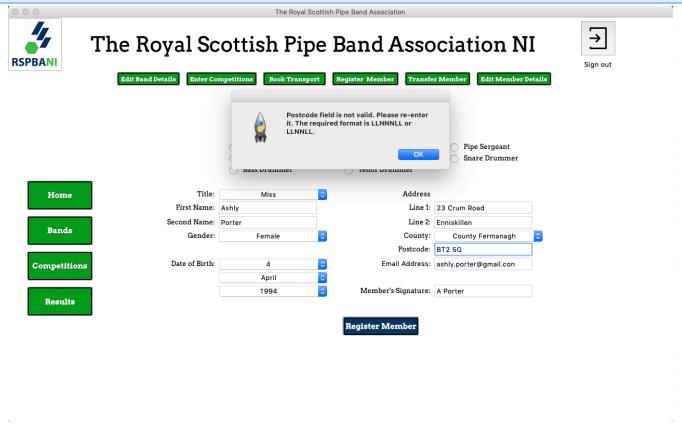
5	Address line one validation testing where only the road is given and not the house number.	Invalid	“Crum Road”	An error message presented to user telling them that their address line one is invalid. It must include house number and road. User returned to same form.	Functional
6	Address line one validation testing where they have only provided a number and not the name of the road.	Invalid	“23”	An error message presented to user telling them that their address line one is invalid. It must include house number and road. User returned to same form.	Functional
7	Postcode validation – Postcode longer than 7 characters in length.	Invalid	“BT29 5GHJ”	An error message presented to the user telling them that the postcode they have entered is not valid. The required format is LLNN NLL. User returned to same form.	Functional
8	Postcode validation – Postcode less than 6 characters	Invalid	“BT2 5G”	An error message presented to the user telling them that the postcode they have entered is not valid. The required format is LLNN NLL. User returned to same form.	Functional
9	Postcode validation – Postcode containing only three letters.	Invalid	“T29 5GH”	An error message presented to the user telling them that the postcode they have entered is not valid. The required format is LLNN NLL. User returned to same form.	Functional
10	Postcode validation – not in correct format as numbers come before letters in the first part of the postcode.	Invalid	“29BT 5GH”	An error message presented to the user telling them that the postcode they have entered is not valid. The required format is LLNN NLL.	Functional

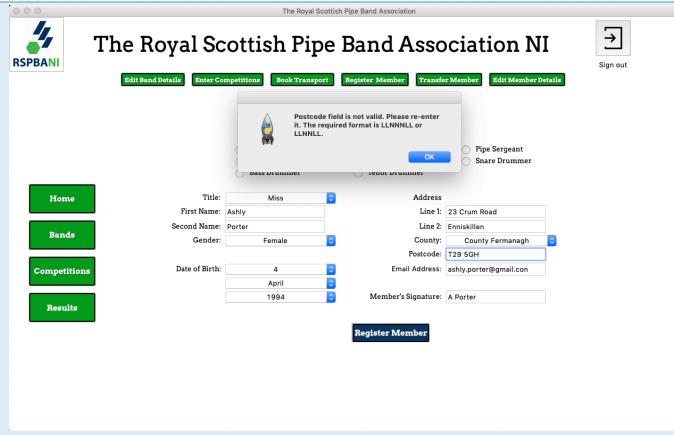
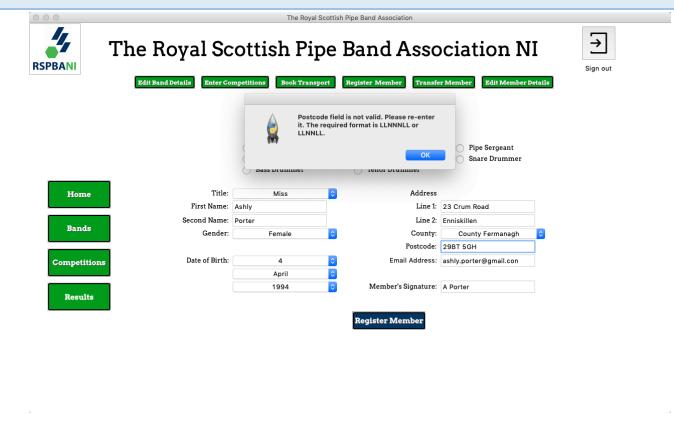
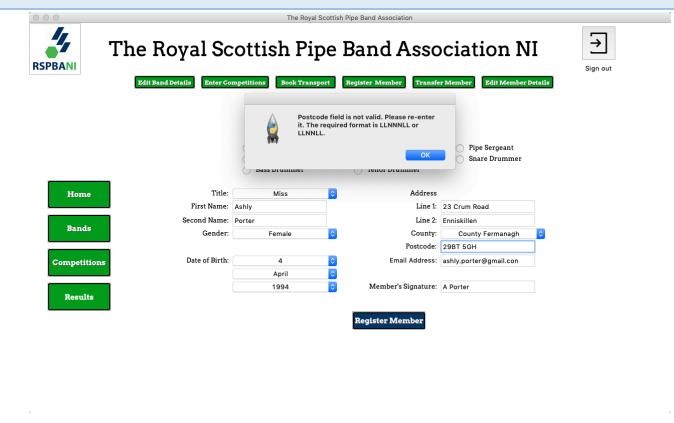
				User returned to same form.	
11	Postcode Validation – Postcode including a space between the two parts. Email Address is invalid so that program throws an error message after it checks that the email is valid.	Typical	“BT29 5GH”	Program will check the rest of the fields in the form. If the rest of the fields are valid then member will be registered. If not, the program will produce an error message at the invalid field. User returned to same form.	Functional
12	Postcode Validation – Postcode not including the space between the two parts. Email Address is invalid so that program throws an error message after it checks that the email is valid.	Typical	“BT295GH”	Program will check the rest of the fields in the form. If the rest of the fields are valid then member will be registered. If not, the program will produce an error message at the invalid field.	Functional
13	Email Validation – no “@” symbol in email address field	Invalid	“ashly.portergmail.com”	An error message indicating that the email address the user has entered is not valid.	Functional
14	Email Validation – no “.” symbol after the “@” in the email address field	Invalid	“ashly.porter@gmailcom”	An error message indicating that the email address the user has entered is not valid. User returned to same form.	Functional
15	Email Validation – entering a valid email address. Members signature is not valid	Typical	“ashly.porter@gmail.com”	Program will check the last remaining field on the form, Member’s signature, if this is valid then the program will proceed to save details to the database. Program will alert user that members signature is in valid	Functional
16	Registering a user with fully valid fields	Typical	Piper, Miss, “Ashly”, “Porter”, Female, 4, April,	Program will check all validation, which this test will pass. All information will be saved to	Functional

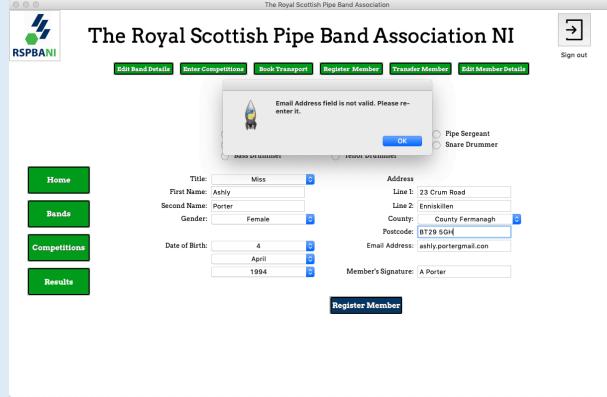
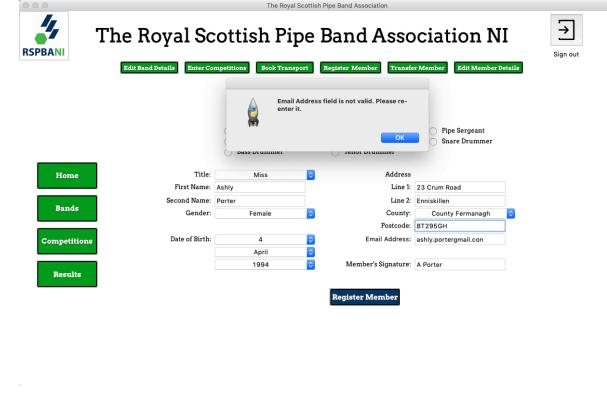
Test number	Evidenced test data	Actual outcome	Outcome screenshot	Comments
1		As expected.		This test has passed.
2	N/A	As expected.	 <p>The screenshot shows a registration form for a member. The first name field contains 'Miss' and the last name field contains 'Porter'. A validation error message 'First name field is not valid. Please re-enter it.' is displayed above the last name field. Below the form, there are tabs for Home, Bands, Competitions, and Results. On the right side of the page, there are links for Edit Band Details, Enter Competitions, Book Transport, Register Member, Transfer Member, and Edit Member Details. A sign-out link is also visible.</p>	This test has passed.

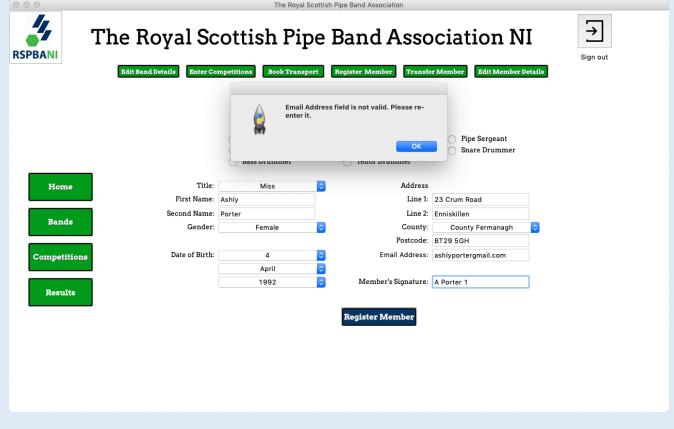
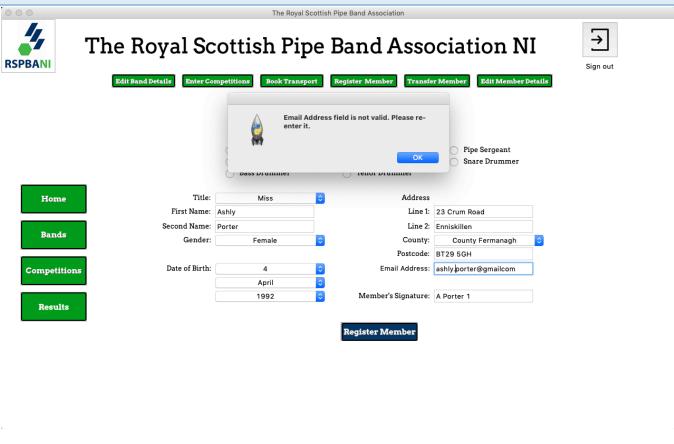
3	N/A	As expected.		This test has passed.
4	N/A	As expected.		This test has passed.

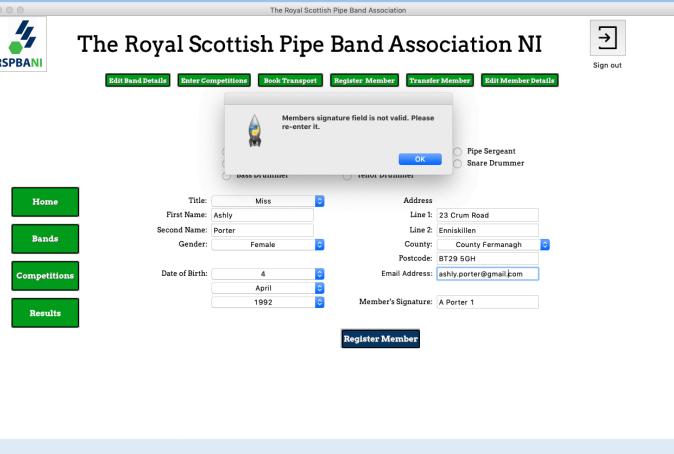
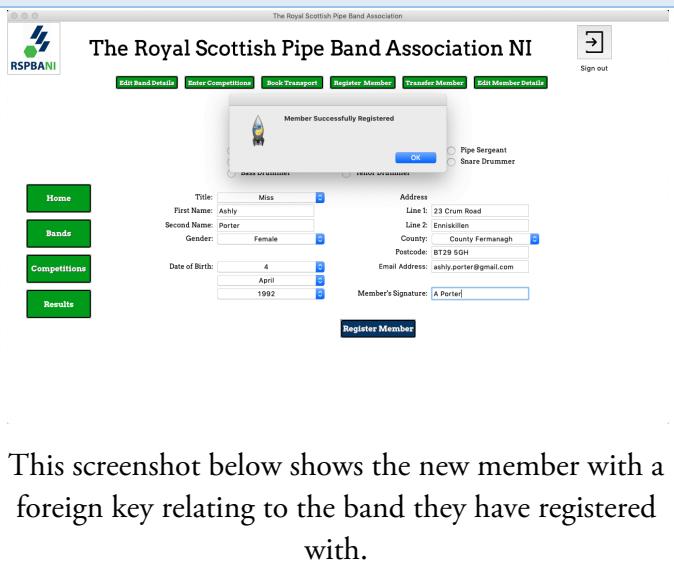
5	N/A	As expected.	<p>The Royal Scottish Pipe Band Association NI</p> <p>Address line 1 field is not valid. Please include your house number and road.</p> <p>OK</p> <p>Pipe Sergeant Share Drummer</p> <p>Home Bands Competitions Results</p> <p>First Name: Ashly Second Name: Porter Gender: Female Title: Miss Date of Birth: 4 April 1988 Address: Line 1: 28 Line 2: Enniskillen County: County Fermanagh Postcode: BT785G0 Email Address: ashly.porter@gmail.com Member's Signature: A Porter</p> <p>Register Member</p>	This test has passed.
6	N/A	As expected.	<p>The Royal Scottish Pipe Band Association NI</p> <p>Address line 1 field is not valid. Please include your house number and road.</p> <p>OK</p> <p>Pipe Sergeant Share Drummer</p> <p>Home Bands Competitions Results</p> <p>First Name: Ashly Second Name: Porter Gender: Female Title: Miss Date of Birth: 4 April 1988 Address: Line 1: 28 Line 2: Enniskillen County: County Fermanagh Postcode: BT785G0 Email Address: ashly.porter@gmail.com Member's Signature: A Porter</p> <p>Register Member</p>	This test has passed.

7	N/A	As expected.		This test has passed.
8	N/A	As expected.		This test has passed.

9	N/A	As expected.	 <p>The screenshot shows the RSPBANI website's member registration page. A success message at the top right says "Member registered successfully". Below it, a registration form is filled out with the following details:</p> <ul style="list-style-type: none"> Title: Miss First Name: Ashly Second Name: Porter Gender: Female Date of Birth: 4 April 1994 Address: Line 1: 23 Crum Road, Line 2: Enniskillen, County: County Fermanagh, Postcode: T29 5GH Email Address: ashly.porter@gmail.com Member's Signature: A Porter <p>At the bottom right of the form is a "Register Member" button.</p>	 <p>The screenshot shows the RSPBANI website's member registration page. An error message in a modal window states: "Postcode field is not valid. Please re-enter it. The required format is LLNNNN or LLNNLL." The registration form has the same details as the successful one above, except for the invalid postcode "T29 5GH". The "OK" button is visible in the modal window.</p>	This test has passed.
10	N/A	As expected.	 <p>The screenshot shows the RSPBANI website's member registration page. A success message at the top right says "Member registered successfully". Below it, a registration form is filled out with the following details:</p> <ul style="list-style-type: none"> Title: Miss First Name: Ashly Second Name: Porter Gender: Female Date of Birth: 4 April 1994 Address: Line 1: 23 Crum Road, Line 2: Enniskillen, County: County Fermanagh, Postcode: 29BT 5GH Email Address: ashly.porter@gmail.com Member's Signature: A Porter <p>At the bottom right of the form is a "Register Member" button.</p>		This test has passed.

11	N/A	As expected.		This test has passed.
12	N/A	As expected.		This test has passed.

13	N/A	As expected.		This test has passed.
14	N/A	As expected.		This test has passed.

15	N/A	As expected.		This test has passed.
16	N/A	As expected.	 <p>This screenshot below shows the new member with a foreign key relating to the band they have registered with.</p>	This test has passed – user has been saved to database and the Band ID of the band they are registered to.

BandMembers																	
MemberID	Title	Filter	bandID	Filter	branch	Filter	grade	Filter	role	Filter	Title	firstName	secondName	addressLine1	addressLine2	Filter	country
1 2	PONI	Z	2	Antrim	1		Bass Drummer	Mr	Daniel	Cheenut	48 Sh road	Antrim	County Antrim				
2 12	Colmille	10	Londerry	Z	Piper			Mr	Gavin	Hasson	derry street	Londerry	County Lond...				
3 20	Vale Of Atholl	3	Down	Z	Piper			Miss	Adele	Martin	British Road	Aldergrove	County Antrim				
4 21	Ballymena	6	Antrim	48	Lead Drummer	Ms	Ormeay	Dakane	Civic	Ross	22 British Road	Aldergrove	County Antrim				
5 22	Ballymena	4	Antrim	48	Drum Corporal	Mr				Martin							
6 23	Broughshane An...	5	Antrim	48	Piper	Miss	Ashly	Porter	23 Crum Road	Enniskillen			County Ferman...				

This screenshot below shows the email received by the pipe major on registering a new member.

New Member Registered [Inbox](#)  

 [rspbani.info@gmail.com](#) 4:00 PM (2 minutes ago)

to me 

Dear Pipe Major,

You are receiving this email to confirm the registration of your new member Ashly Porter.

The newly registered member will also receive an email for confirmation, please check with them to make sure their details are correct - if not please update them through the Edit Member Details Section.

The Royal Scottish Pipe Band Association
Northern Ireland Branch

 [Reply](#)  [Forward](#)

Welcome Ashly [Inbox](#)

 [rspbani.info@gmail.com](#) 4:00 PM (2 minutes ago)

to me 

Dear Ashly Porter,

You are receiving this email to confirm your registration with Broughshane And District.

Please check to make sure your details are correct - if not please let your Pipe Major know.

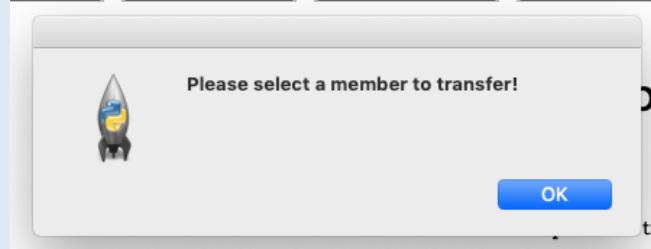
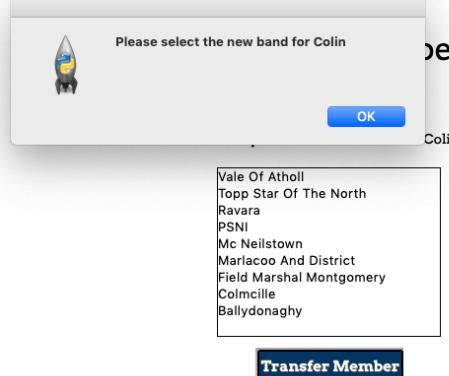
Title: Miss
 First Name: Ashly
 Second Name: Porter
 Address Line One: 23 Crum Road
 Address Line Two: Enniskillen
 County: County Fermanagh
 Postcode: BT29 5GH
 Date of Birth: 4/April/1992
 Gender: Female

The Royal Scottish Pipe Band Association
Northern Ireland Branch

			This screenshot above shows the email received by the new member registered with a band.	
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Transfer existing members:

Test number	Description of test	Test data type (Typical/ Extreme/ Invalid)	Tests data to be used	Expected outcome	Test type (Functional / logical)
1	Attempt to transfer a member without selecting a member from the list box.	Invalid	None	An error message telling the user to select a member to transfer.	Functional
2	Selecting Colin Torrington to Transfer from Broughshane and not selecting a new band from the list box provided	Invalid	None	An error message warning user that they haven't selected a band to transfer the member to.	Functional
3	Selecting Colin Torrington to Transfer from Broughshane and then Field Marshal Montgomery.	Valid	Colin Torrington, Field Marshal Montgomery	The list box of bands will have all the bands that are registered minus the band that the user is currently registered to. A confirmation message ensuring the user wants to transfer Colin. They must select yes to carry on with the transfer. An email shall be received by the transferred member to confirm transfer.	Functional

Test number	Evidenced test data	Actual outcome	Outcome screenshot	Comments
1	N/A	As expected.		This test has passed
2	N/A	As expected.		This test has passed

3

Table: BandMembers  

New Record Delete Record

MemberID	bandID	role	Title	firstName	secondName	ac
Filter	Filter	Filter	Filter	Filter	Filter	Filter
1 4	4	Piper	Miss	Amy	Adams	Adar
2 20	3	Piper	Miss	Adele	Martin	Britis
3 23	15	Piper	Miss	Ashly	Porter	23 C
4 2	2	Bass Drummer	Mr	Daniel	Chessnut	48 is
5 3	4	Piper	Mr	Andy	McComb	10 B
6 5	5	Piper	Mr	Colin	Torrington	Torr
7 8	6	Piper	Mr	Alan	McPherson	16b
8 9	3	Snare Drummer	Mr	David	Martin	Ross
9 11	10	Lead Drummer	Mr	Brian	Hasson Jnr	dern

As expected.

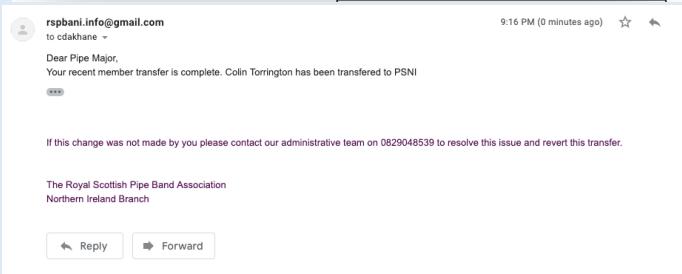
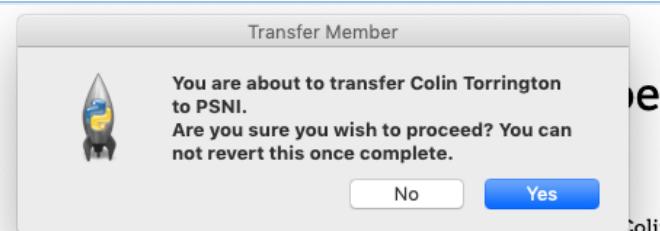


Table: BandMembers  

New Record Delete Record

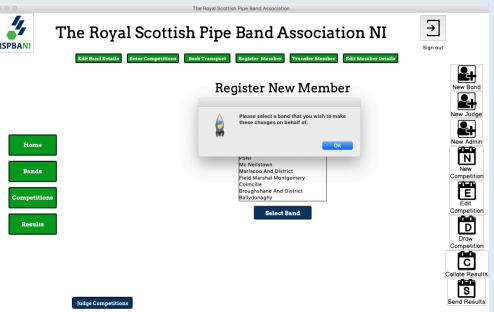
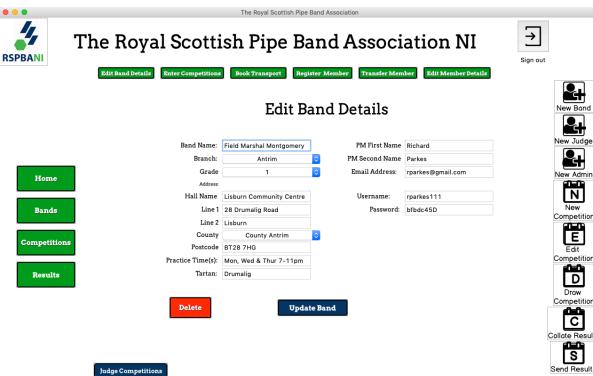
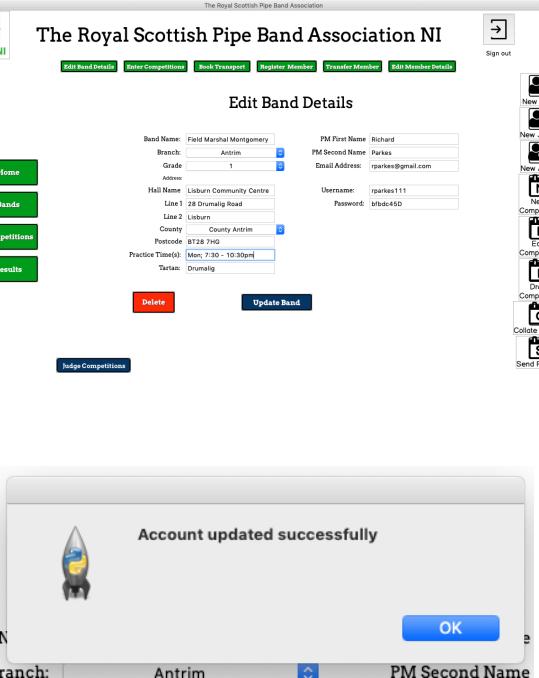
MemberID	bandID	role	Title	firstName	secondName	ac
Filter	Filter	Filter	Filter	Filter	Filter	Filter
1 4	4	Piper	Miss	Amy	Adams	Adar
2 20	3	Piper	Miss	Adele	Martin	Britis
3 23	15	Piper	Miss	Ashly	Porter	23 C
4 2	2	Bass Drummer	Mr	Daniel	Chessnut	48 is
5 3	4	Piper	Mr	Andy	McComb	10 B
6 5	2	Piper	Mr	Colin	Torrington	Torr
7 8	6	Piper	Mr	Alan	McPherson	16b
8 9	3	Snare Drummer	Mr	David	Martin	Ross
9 11	10	Lead Drummer	Mr	Brian	Hasson Jnr	dern

The BandID of Colin has been updated to reflect the Band ID of this new band.

11. Admins have the ability to carry out these band features above on behalf of the band.

For this objective, I am only showing the testing of one feature in my test plan as it is the same code implemented to develop this objective for all band features.

Test number	Description of test	Test data type (Typical/ Extreme/ Invalid)	Tests data to be used	Expected outcome	Test type (Functional / logical)
1	Admin attempt to carry out the Enter Competitions Page without selecting the band to carry out this feature on behalf of.	Invalid	None	An error message telling the user to select the band they wish to carry out this feature.	Functional
2	Admin editing a bands details. They admin will change the practice time of Field Marshal Montgomery	Typical	Field Marshall Montgomery, "Mon; 7:30 – 10:30pm"	Once the admin user has selected and pressed the "select Band" button, the user will be brought to the Bands Details form. It will be populated with the Bands current details using the Band ID of the band the admin selected to query the database of information about the band. Email sent to PM to confirm changes.	Functional

Test number	Evidenced test data	Actual outcome	Outcome screenshot	Comments
1	N/A	As expected		Due to the list box design there isn't much else testing wise than ensuring that if the user presses the button without selecting a band, the error is caught and dealt with by the system.
2		As expected		This test passed.

Band Details Updated



rspbani.info@gmail.com

to rparkes ~

9:37 PM (1 minute ago)

Dear Pipe Major,

We have successfully updated your Bands details according to the changes you made on the Edit Band Details section.

If this change was not made by you please contact one of the systems administrators so we can resolve this issue.

The Royal Scottish Pipe Band Association
Northern Ireland Branch

This screenshot above shows the email the pipe major will receive when the band details have been updated.

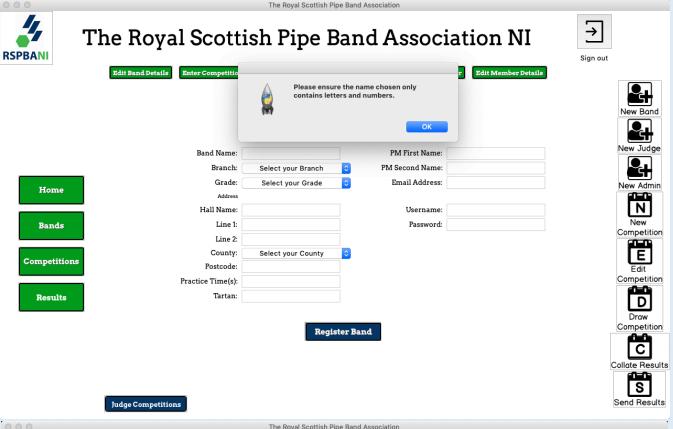
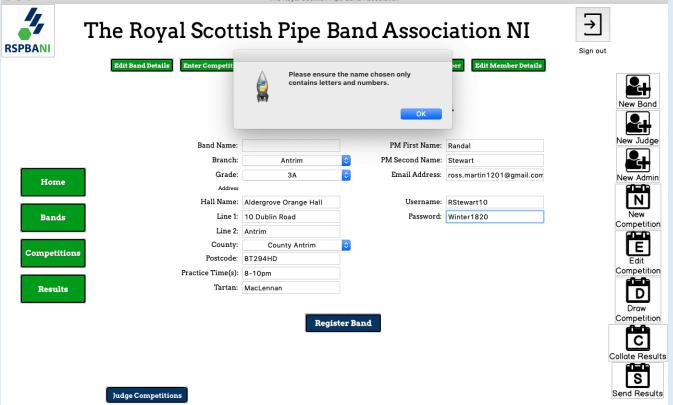
12. Admins have the ability to add and remove band accounts, judge accounts and admin accounts. When a band account is created an email is sent to the Pipe Major to include the initial log in details.

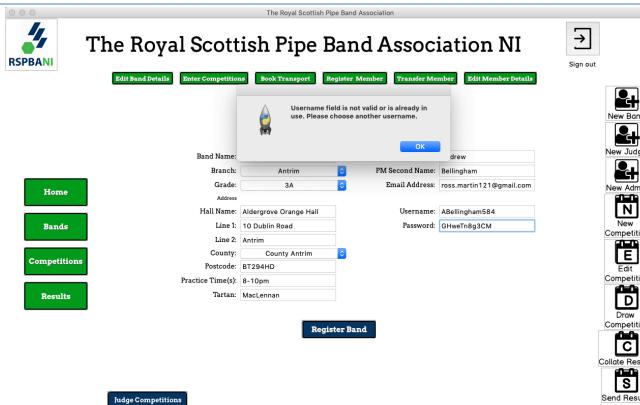
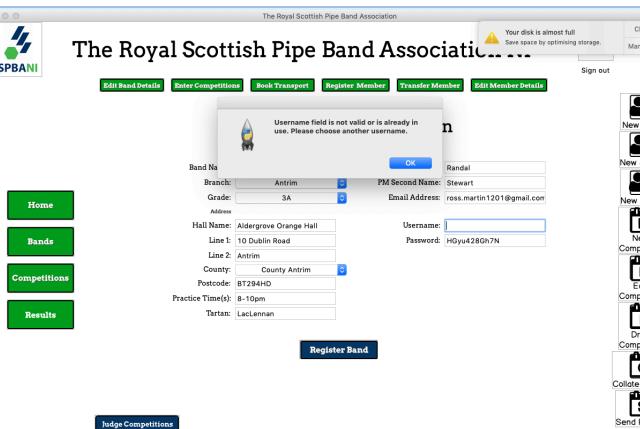
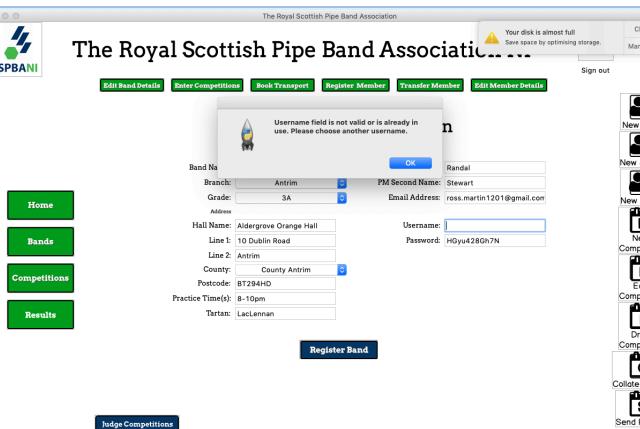
I have not shown the testing of my validation for these registration pages with regards to the fields I have already shown in the registration of band members in objective 10. I will test the additional validation on the band registration page and just test the functionality of the other registration pages to ensure they so what they have been designed and implemented to do.

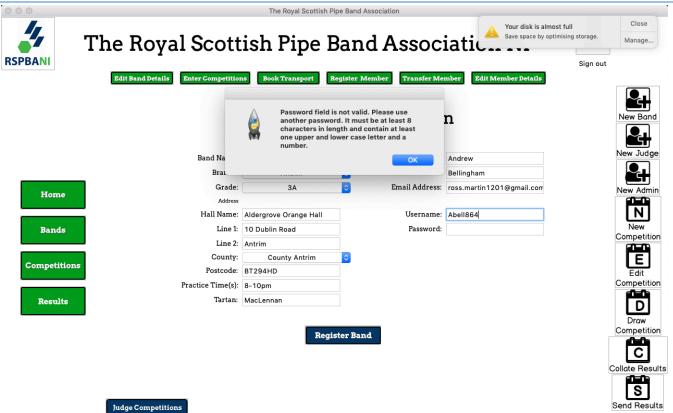
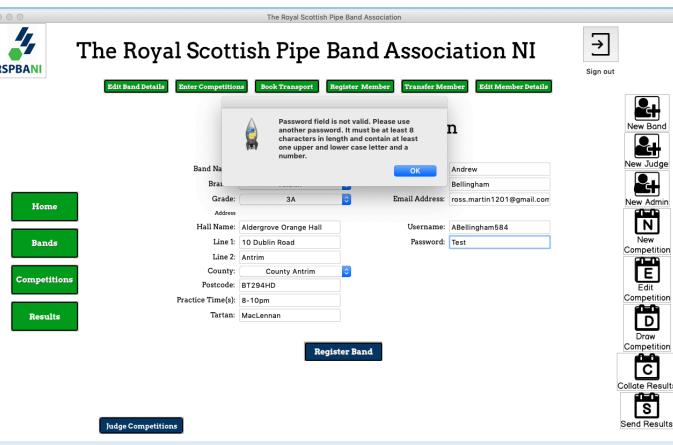
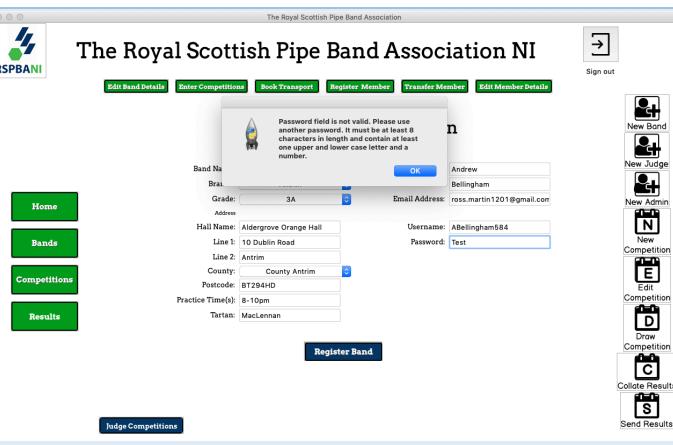
Test number	Description of test	Test data type (Typical/ Extreme/ Invalid)	Tests data to be used	Expected outcome	Test type (Functional / logical)
1	Pressing the register band button before filling out the form. (Validation check for Band name)	Invalid	None	An error message will appear to the user. My program is not able to detect whether the user was meant to press the button or not so when it tries to register the band, it will check validation for the band name field. It will throw this field as invalid as the error for an empty registration form.	Functional
2	Username validation check – username entered has already been taken	Invalid	“ABellingham584”	An error message stating that the username select is not valid or is already in use.	Functional
3	Username validation check – no username entered	Invalid	None	An error message stating that the username select is not valid or is already in use.	Functional
4	Username validation check – length is exactly 8 characters (password invalid will throw an error catching the invalid password after the username has been deemed valid)	Typical	“Abell864”	System will accept username. However, because I will leave the password out to show that the username was accepted, and the next field was validated.	Functional

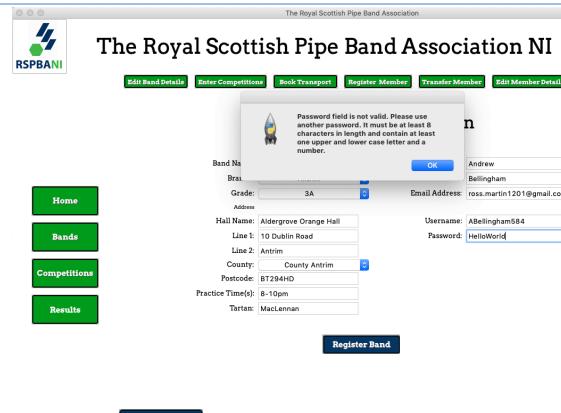
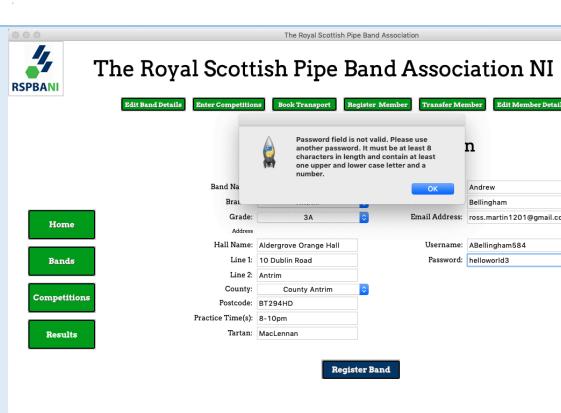
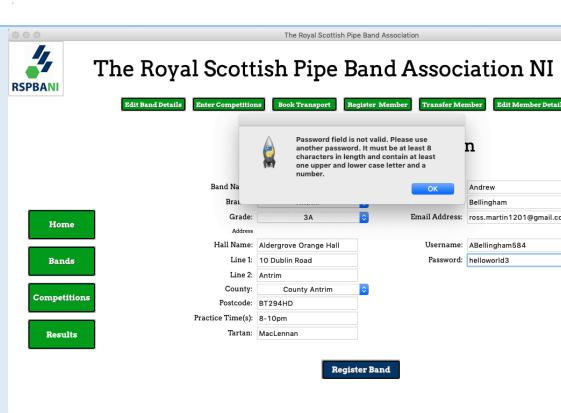
5	Password Validation Check – Password too short	Invalid	“Test”	An error message telling user that the password they have entered is invalid. The message will list the requirements of a suitable password; at least 8 characters and contain at least one upper- and lower-case letter and a number.	Functional
6	Password Validation Check – Password not containing a number	Invalid	“HelloWorld”	An error message telling user that the password they have entered is invalid. The message will list the requirements of a suitable password; at least 8 characters and contain at least one upper- and lower-case letter and a number.	Functional
7	Password Validation Check – Password not containing an uppercase letter	Invalid	“helloworld3”	An error message telling user that the password they have entered is invalid. The message will list the requirements of a suitable password; at least 8 characters and contain at least one upper- and lower-case letter and a number.	Functional
8	Password Validation Check – Password not containing a lower-case letter	Invalid	“HELLOWORLD234”	An error message telling user that the password they have entered is invalid. The message will list the requirements of a suitable password; at least 8 characters and contain at least one upper- and lower-case letter and a number.	Functional

9	Successfully registering a band account.	Typical	Antrim, 3A , “Aldergrove Orange Hall”, “10 Dublin Road”, “Antrim”, Co Antrim, “BT294HD”, “8-10pm”, “MacLennan”, “Randal”, “Stewart”, ross.martin1201@gmail.com, “RStewart10”, “Winter1820”	A pop-up message will appear to the admin user confirming to them that the account has been made. Band is saved to the database. Band is also populated into the bands page. Email is sent to the pipe major with their initial log on details. Fields in form are emptied.	
10	Integration test – logging into the newly registered band account.	Typical	“RStewart10”, “Winter1820”	User will be presented with a welcome message and the first-time log in window will display for the user of the account to begin to finalise their account details.	Functional
11	Deletion of a band account	Typical	None	The user will be asked to confirm if they still wish to delete the account. If yes then account deleted else, account will remain.	Functional

Test number	Evidenced test data	Actual outcome	Outcome screenshot	Comments
1	N/A	As expected.	  <p>The screenshots show two instances of the RSPBANI website's member registration page. In the first screenshot, a validation error message 'Please ensure the name chosen only contains letters and numbers.' is displayed over a text input field. In the second screenshot, the same form is shown with the validation message removed, indicating the error has been resolved.</p>	This test has passed

		As expected.		This test has passed
2	N/A			This test has passed
3	N/A	As expected.		This test has passed

		As expected.		This test has passed
4	N/A			This test has passed
5	N/A	As expected.		This test has passed

		As expected.		This test has passed
6	N/A			
7	N/A	As expected.		This test has passed

		As expected.		This test has passed
8	N/A			
9	N/A	As expected.	 	This test has passed

The Royal Scottish Pipe Band Association NI

Bands

Band	Grade	Branch	Address	Practice Time(s)	Tutor
Ballymena	4B	Antrim	The Mount, 15 Springfield Road, BT7 2Q	Mondays & Thursdays 7-9pm	Unknown
Broughshane And District	4B	Antrim	Broughshane Church Hall, 20 Main Street	Mondays 7-10pm	New Arc South
Colmcille	2	Londondry	Unit 6, Northwest Business Park, BT48 8SD	Tues & Thurs 8-10pm	Unknown
Fife And Perth Monitors	4B	Antrim	Monitors Community Centre, 28 Drumcraig Road	Mondays 7-9pm	Red McLean
Marlaco And District	3A	Antrim	Marlaco Orange Hall, 130 Marlaco Road	Wednesday 8-10pm	Red McLean
Mc Neillstown	3B	Antrim	30 Blackstone Road, BT44 8HB	Thursday 8-10pm	Red McLean
Pipe	2	Down	20 Blackstone Road, BT44 8HB	Monday 8-10pm	John Stewart
Ravara	2	Down	Ravara Orange Hall, Vestry Road, BT23 8EY	Monday & Thursday 8-10pm	Unknown
Topp Star Of The North	4B	Antrim	Topp Star Orange Hall, Ballyraig Road, BT7 1pm	Mon & Tuesday 8-10pm	MacLennan
Tullylagon	3A	Antrim	Aldergrove Orange Hall, 10 Dublin Road, BT16 7HD	Wednesday 8-10pm	Unknown
Vale Of Antrim	2	Down	1 Vale Road, BT16 7HD	Sunday 8-10pm	Unknown

Judge Competitions

This screenshot above shows the new band in the bands page.

This screenshot shows the initial email sent to pipe majors of newly registered bands

Tullylagon [Inbox](#)

rspbani.info@gmail.com
to me -

2.02 PM (7 minutes ago) ⌂ ⓘ

Dear Pipe Major,

You are receiving this email to confirm the registration of this band, Tullylagon, under your leadership.

Please find your initial log in details. Once you log in for the first time, you will be asked to set your own password along with a security question which you will need to reset your password through the application.

Also through this application you are able to do the following:

- * View Competitions
- * View Competition Draw
- * View Competition Results
- * View All Bands and their details
- * Edit Band Details
- * Enter Competitions
- * Book Transport
- * Register New Members
- * Edit Member Details

Username: RSStewart10
Password: Winter1820

The Royal Scottish Pipe Band Association
Northern Ireland Branch

10

The Royal Scottish Pipe Band Association NI

Welcome
Hello Tullyagon, You have been successfully logged in.

Username: RStewart10
Password: Winter1820
Forgot Password?

Login

Home
Bands
Competitions
Results

As expected.

The Royal Scottish Pipe Band Association NI

Welcome to your account

We need to finalize a few details from you to make your account secure.

Please enter your new password: _____
Please enter your password again: _____

Next

Grade 1A:
1st Mc Neasoco and District

Grade 1B:
1st Mc Neilstown

Grade 4A:
1st No Band Entered

Grade 4B:
1st Broughshane and District

Home
Bands
Competitions
Results

This test has passed

11

The Royal Scottish Pipe Band Association NI

Edit Band Details

Band Name: Tullyagon
Branch: Antrim
Grade: 3A
Address:
Hall Name: Aldergrove Orange Hall
Line 1: 10 Dublin Road
Line 2: Antrim
County: County Antrim
Postcode: BT294HD
Practice Time(s): 8-10pm
Tartan: MacLennan

PM First Name: Randal
PM Second Name: Stewart
Email Address: ross.martin1201@gmail.com

Username: RStewart10
Password: Winter1820

Delete Update Band

New Band
New Judge
New Team
New Competition
Edit Competition
Draw Competition
Collate Results
Send Results

Home
Bands
Competitions
Results

As expected.



This screenshot shows that Tullyagon has been deleted from the BandAccount table

Table: BandAccount

BandID	BandName	BandBranch	BandGrade	PMFirstName	PMSurname	EmailAddress	HallName	BandAddressLine1	BandAddressLine2	BandCountry	BandPostcode
1	PSNI	Antrim	1	Cheney	Dakrone	cdakrone@gmail...	Musgrave Police...	10 Belfast Road	Belfast	County Antrim	BT1 1AA
2	Vale Of Atholl	Down	2	Jonny	Fleming	ross.martin120...	Vale Road	Vale Town	County Down	Belfast	BT7 8BG
3	Ballydugnagh A...	Antrim	4B	Devin	Cleary	AACMCleary543...	The Mount	20 Main Street	Broughshane	County Antrim	BT4 7TG
4	Broughshane A...	Antrim	4B	Darren	Reid	ross.martin120...	Broughshane	28 Druryall Road	Lisburn	County Antrim	BT73 7HG
5	Field Marshal M...	Antrim	1	Richard	Parkes	rparkes@fma...	Musgrave Dr...	130 Marlboro...	Portadown	County Armagh	BT62 7TB
6	Marlace And D...	Antrim	3A	Wayne	Syme	WBjwys5439...	Marlace Dr...	30 Blackstone R...	Portadown	County Armagh	BT44 8BB
7	Mc Neilstown	Antrim	3B	Robbie	Bellington	RBellingham432...	Top Star O...	100 Marlboro...	Lisburn	County Antrim	BT73 7HG
8	Revara	Down	2	Mark	Hesson Jr	MarkHessonJr...	Revara Orange...	11 Marlboro...	Skeggs Indust...	County Lond...	BT4 8SE
9	Colmcille	Londonderry	2	Mark	Hesson Jr	MarkHessonJr...	Marlace Dr...	28 Drumnil Road	Lisburn	County Antrim	BT73 4FH
10	Topp Star Of Th...	Antrim	4B	Alastair	Bellington	ABellington456...	Top Star O...	100 Marlboro...	Portadown	County Armagh	BT23 7TG
11	Tullyagon	Antrim	3A	Randal	Stewart	ross.martin120...	Aldergrove O...	10 Dublin Road	Belfast	County Antrim	BT29 4HD

This test has passed.

Like said in the messagebox, when this band is deleted, all the members of this band are also deleted.

Because the band has been deleted you can be assured it will not appear in any list boxes through my program allowing you to select it etc.

However, any remaining competitions that they have entered will still remain if they

MemberID	bandID	role	Title	A.	FirstName	SecondName	addressLine1	addressLine2	county	postcode	drawnWith	Gender
1	4	Piper	Miss	Amy	Adams	Cornils	Country Antrim	BT297NH	4/April/2004	Female		
2	20	Piper	Miss	Adrie	Martin	British Road	Aldergrove	BT294DH	31/August/1968	Female		
3	23	Piper	Miss	Ashy	Porter	23 Crum Road	Ervinslkin	County Fermana	BT29 5GH	4/April/1992	Female	
4	2	Bass Drummer	Mr	Daniel	Cheesnut	48 Lin road	Antrim	County Antrim	BT411AF	8/February/1932	Male	
5	3	Piper	Mr	Andy	McGinn	10 Band Street	Bandole	County Down	BT388RY	8/February/1932	Male	
6	5	Piper	Mr	Colin	Torington	Torington	Broughshane	County Antrim	BT406FH	4/April/2004	Male	
7	8	Piper	Mr	Alan	McPherson	16b Bridge Street	Gullabrecky	County Antrim	BT23 7HG	2/June/1995	Male	
8	9	Snare Drummer	Mr	David	Martin	Ross	Aldergrove	County Antrim	BT284DH	2/June/1990	Male	
9	11	Lead Drummer	Mr	Brian	Hasson Jnr	denry street	County London	BT48 7GD	4/April/2004	Male		
10	12	Piper	Mr	Gavin	Hasson	Vale	County London	BT47QH	8/February/1932	Male		
11	13	Piper	Mr	Adrin	Hasson	Ward	Aldergrove	County Antrim	BT294DH	4/April/2004	Male	
12	14	Piper	Mr	Adam	Crawford	45S street	Antrim	County Antrim	BT41 1AF	4-Nov/1991	Male	
13	15	Tenor Drummer	Mr	Lance	Nevea	ancone Road	Antrim	County London	BT294H	4/April/2001	Male	
14	16	Lead Drummer	Mr	Thomas	Allen	Anron	Anron	County Antrim	BT4194H	5/November/2001	Male	
15	17	Tenor Drummer	Mr	C	G	Old	Carick	County Antrim	BT388RJ	3/April/1940	Female	
16	22	Drum Corporal	Mr	Ross	Martin	22 British Road	Aldergrove	County Antrim	BT294DH	3/February/2018	Male	
17	6	Piper	Mrs	Patricia	Pedlow	35 Crumlin Road	Aldergrove	County Antrim	BT78 7HG	4/April/2004	Female	
18	21	Lead Drummer	Ms	Chesney	Dalhane	Ovic	Antrim	County Antrim	BT411AH	21/August/2000	Female	

This screenshot shows no band members with a bandID of 16 are stored in the BandMembers table.

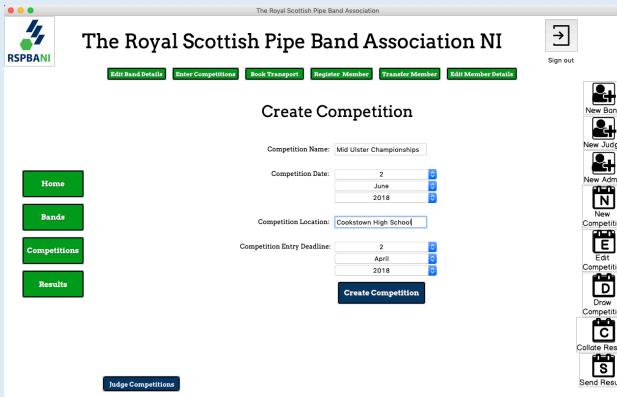
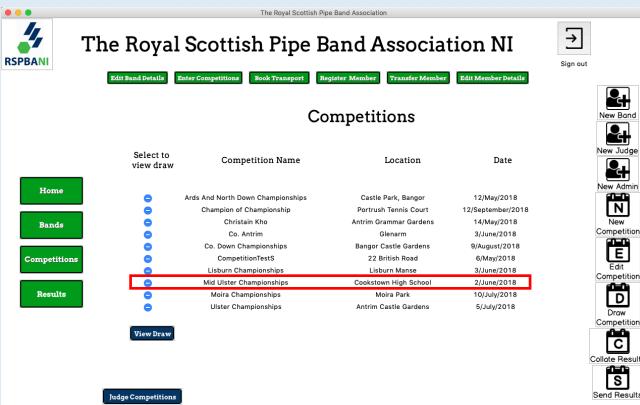
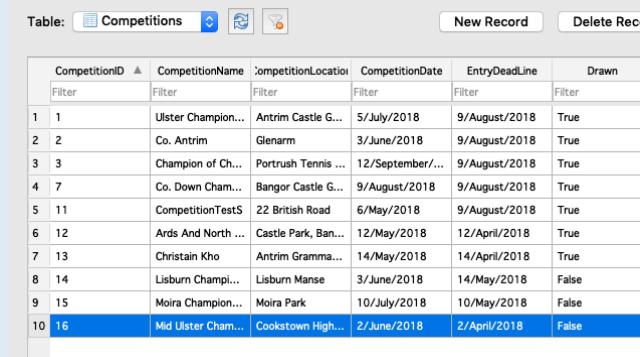
have been drawn. Else the entry to the competition will be deleted. This is because the drawn will have already been sent out to all the bands and therefore can not be removed from the drawn competition.

13. Admins have the ability to create, update, delete and draw individual competitions.

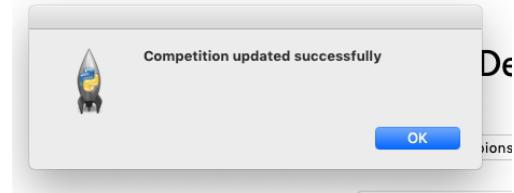
Creation, updating and deletion of competition:

All validation used in this form has already been testing in above objectives. In this objective I will just be testing the functionality of the feature.

Test number	Description of test	Test data type (Typical/ Extreme/ Invalid)	Tests data to be used	Expected outcome	Test type (Functional / logical)
1	Creation of a competition	Typical	“Mid Ulster Championships”, 2, June, 2018, “Cookstown High School”, 2, April, 2018	Competition saved to database. Competition listed in Competitions page, and when click it will say hasn't been drawn yet. Also, will appear in the enter competitions list box.	Functional
2	Updating the competition	Typical	“Cookstown Grammar School”	The location of the competition will be updated to the test data of this test. Competitions page will reflect this update.	Functional
3	Deletion of a competition	Typical	Deletion of Co. Down Championships	The competition will be deleted from competitions table in database. All Bands entered into the competition will be deleted, any entered bands draw if it had taken place along with the corresponding records in the results table for each drawn band in the competition. Competition removed from list boxes and competitions page.	Functional

Test number	Evidenced test data	Actual outcome	Outcome screenshot	Comments
1		<p>As expected</p> <p>This screenshot shows the updated competition details on the competition page.</p> 	 <p>This test has passed.</p>	

		<table border="1"> <thead> <tr> <th>Competition Name</th> <th>Location</th> <th>Date</th> </tr> </thead> <tbody> <tr><td>Ards And North Down Championships</td><td>Lisburn Manse</td><td>12/May/2018</td></tr> <tr><td>Co. Down Championships</td><td>Cookstown High School</td><td>12/September/2018</td></tr> <tr><td>CompetitionTestS</td><td>22 British Road</td><td>14/May/2018</td></tr> <tr><td>Lisburn Championships</td><td>Lisburn Manse</td><td>3/June/2018</td></tr> <tr><td>Mid Ulster Championships</td><td>Cookstown High School</td><td>9/August/2018</td></tr> <tr><td>Moira Championships</td><td>Moira Park</td><td>6/May/2018</td></tr> <tr><td>Ulster Championships</td><td>Antrim Castle Gardens</td><td>3/June/2018</td></tr> <tr><td></td><td></td><td>2/June/2018</td></tr> <tr><td></td><td></td><td>10/July/2018</td></tr> <tr><td></td><td></td><td>5/July/2018</td></tr> </tbody> </table> <p>View Draw</p>	Competition Name	Location	Date	Ards And North Down Championships	Lisburn Manse	12/May/2018	Co. Down Championships	Cookstown High School	12/September/2018	CompetitionTestS	22 British Road	14/May/2018	Lisburn Championships	Lisburn Manse	3/June/2018	Mid Ulster Championships	Cookstown High School	9/August/2018	Moira Championships	Moira Park	6/May/2018	Ulster Championships	Antrim Castle Gardens	3/June/2018			2/June/2018			10/July/2018			5/July/2018	
Competition Name	Location	Date																																		
Ards And North Down Championships	Lisburn Manse	12/May/2018																																		
Co. Down Championships	Cookstown High School	12/September/2018																																		
CompetitionTestS	22 British Road	14/May/2018																																		
Lisburn Championships	Lisburn Manse	3/June/2018																																		
Mid Ulster Championships	Cookstown High School	9/August/2018																																		
Moira Championships	Moira Park	6/May/2018																																		
Ulster Championships	Antrim Castle Gardens	3/June/2018																																		
		2/June/2018																																		
		10/July/2018																																		
		5/July/2018																																		
2	N/A	<p>As expected</p> <p>The Royal Scottish Pipe Band Association NI</p> <p>Edit Competition Details</p> <p>Competition Name: Mid Ulster Championships</p> <p>Competition Date: 2 June 2018</p> <p>Competition Location: Cookstown Grammar School</p> <p>Delete Update Competition</p> <p>Judge Competitions</p> <p>Navigation menu:</p> <ul style="list-style-type: none"> Home Bands Competitions Results <p>Right sidebar icons:</p> <ul style="list-style-type: none"> New Band New Judge New Team New Competition Edit Competition Delete Competition Call for Results Send Results 	<p>This test has passed.</p>																																	



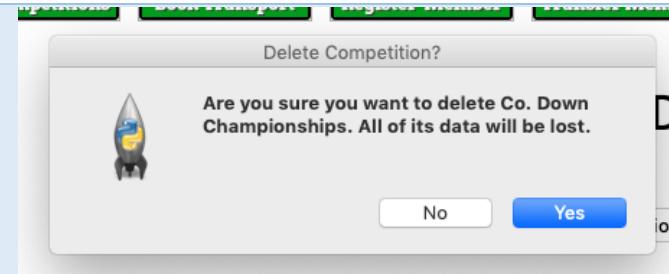
This screenshot shows the new competition created in the list of competitions on the competitions page.

Select to view draw	Competition Name	Location	Date
...	Ards And North Down Championships	Castle Park, Bangor	12/May/2018
...	Champion of Championship	Portrush Tennis Court	12/September/2018
...	Christain Kho	Antrim Grammar Gardens	14/May/2018
...	Co. Antrim	Glenarm	3/June/2018
...	Co. Down Championships	Bangor Castle Gardens	9/August/2018
...	CompetitionTestS	22 British Road	6/May/2018
...	Lisburn Championships	Lisburn Manse	3/June/2018
...	Mid Ulster Championships	Cookstown Grammar School	2/June/2018
...	Moira Championships	Moira Park	10/July/2018
...	Ulster Championships	Antrim Castle Gardens	5/July/2018

[View Draw](#)

Table: Competitions							
		New Record	Delete Record				
CompetitionID	CompetitionName	CompetitionLocation	CompetitionDate	EntryDeadline	Drawn		
1 1	Ulster Champion...	Antrim Castle G...	5/July/2018	9/August/2018	True	1	
2 2	Co. Antrim	Glenarm	3/June/2018	9/August/2018	True	1	
3 3	Champion of Ch...	Portrush Tennis ...	12/September/...	9/August/2018	True	1	
4 7	Co. Down Cham...	Bangor Castle G...	9/August/2018	9/August/2018	True	2	
5 11	CompetitionTestS	22 British Road	6/May/2018	9/August/2018	True	1	
6 12	Ards And North ...	Castle Park, Ban...	12/May/2018	12/April/2018	True	2	
7 13	Christain Kho	Antrim Gramma...	14/May/2018	14/April/2018	True	3	

As expected



This screenshot shows that all details stored about the competitions have been deleted from the competitions table

3

This test passed

Table: BandsEntered

This screenshot shows the BandsEntered table with all records deleted. The table has columns: EntryID, BandID, CompetitionID, DateEntered, and Grade. A filter is applied to the CompetitionID column, which is set to 7. The table is currently empty.

Table: Competitions

This screenshot shows the Competitions table with all records deleted. The table has columns: CompetitionID, CompetitionName, CompetitionLocation, CompetitionDate, EntryDeadline, Drawn, and NumEntries. A filter is applied to the CompetitionID column, which is set to 7. The table is currently empty.

This screenshot shows that all the bands entered the competitions have been deleted

Table: CompetitionDraws

This screenshot shows the CompetitionDraws table with all records deleted. The table has columns: CompetitionID, BandID, EntryID, CircleNumber, and CompetitingTime. A filter is applied to the CompetitionID column, which is set to 7. The table is currently empty.

Table: CompetitionDraws

This screenshot shows the CompetitionDraws table with all records deleted. The table has columns: CompetitionID, BandID, EntryID, CircleNumber, and CompetitingTime. A filter is applied to the CompetitionID column, which is set to 7. The table is currently empty.

This screenshot shows the deletion of the competition as it has been removed from the database.

Table: CompetitionDraws

This screenshot shows the CompetitionDraws table with all records deleted. The table has columns: CompetitionID, BandID, EntryID, CircleNumber, and CompetitingTime. A filter is applied to the CompetitionID column, which is set to 7. The table is currently empty.

Table: Results

This screenshot shows the Results table with all records deleted. The table has columns: EntryID, BandID, CompetitionID, Piping1JudgeID, Piping1Score, Piping1Comments, and Piping2. A filter is applied to the CompetitionID column, which is set to 7. The table is currently empty.

This screenshot shows the competition now does not appear on the competitions page either

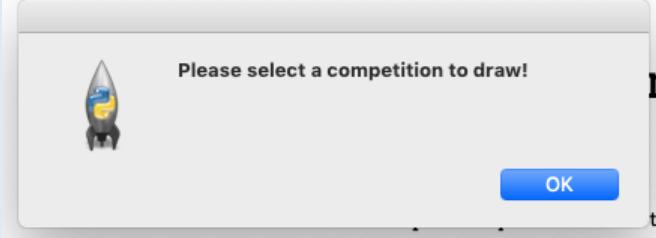
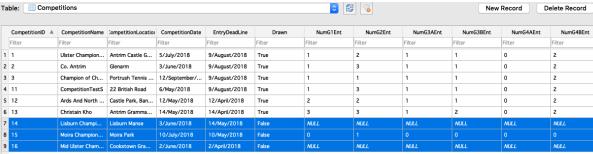
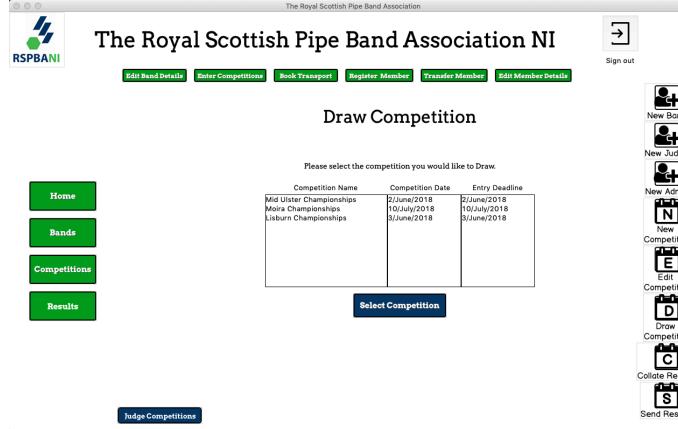
Competitions				
Select to view draw	Competition Name	Location	Date	
	Ards And North Down Championships	Castle Park, Bangor	12/May/2018	
	Champion of Championship	Portrush Tennis Court	12/September/2018	
	Christain Kho	Antrim Grammar Gardens	14/May/2018	
	Co. Antrim	Glenarm	3/June/2018	
	CompetitionTestS	22 British Road	6/May/2018	
	Lisburn Championships	Lisburn Manse	3/June/2018	
	Mid Ulster Championships	Cookstown Grammar School	2/June/2018	
	Moira Championships	Moira Park	10/July/2018	
	Ulster Championships	Antrim Castle Gardens	5/July/2018	
View Draw				

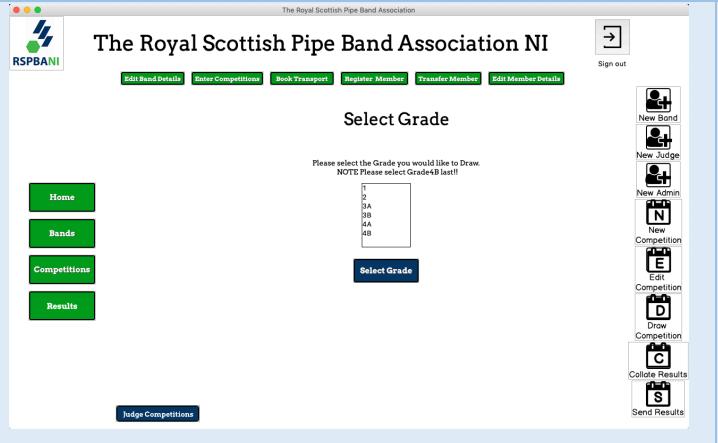
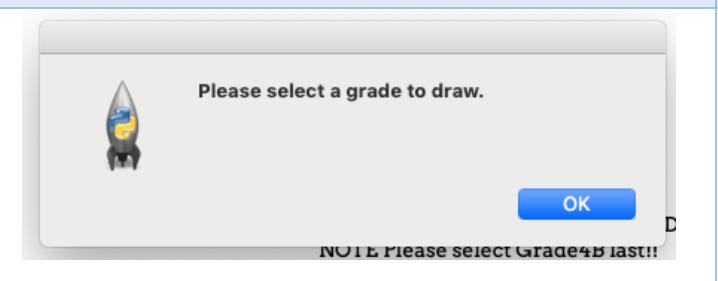
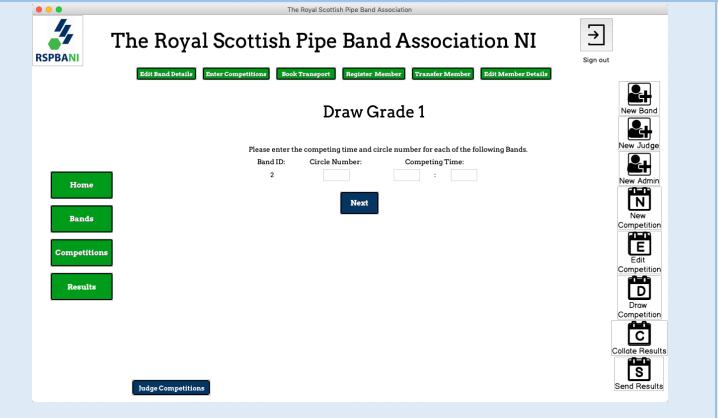
Drawing competitions:

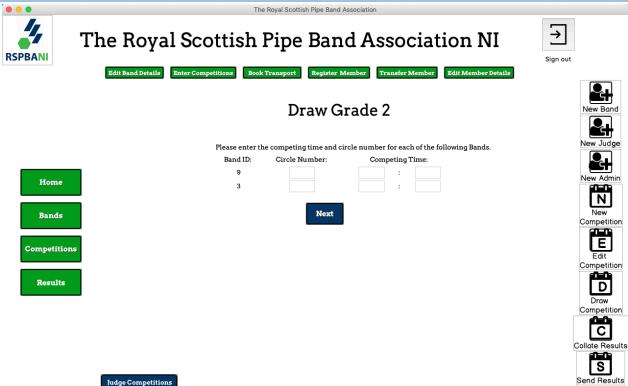
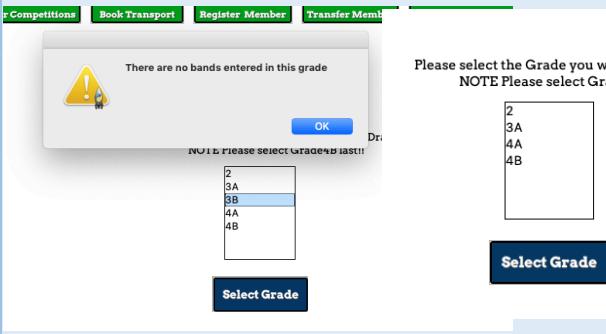
Test number	Description of test	Test data type (Typical/ Extreme/ Invalid)	Tests data to be used	Expected outcome	Test type (Functional / logical)
1	Attempting to draw a competition without selecting a competition.	Invalid	None	Message to user – they must select a competition to draw	Functional
2	Ensuring only competitions that haven't been drawn appear in the list box to be drawn	Typical	None	Only the competitions that have the drawn flag set to "False" will populate the list box	Functional
3	Selecting a competition.	Typical	Moira Championships	A list of grades will be shown.	Functional
4	Not selecting a grade	Invalid	None	A message telling user to select a grade.	Functional
5	Selecting a grade with only one band entered.	Extreme	Moira Championships, 1	Draw screen populated with the Band ID and an entry box for the circle number and another for the competing time.	Functional

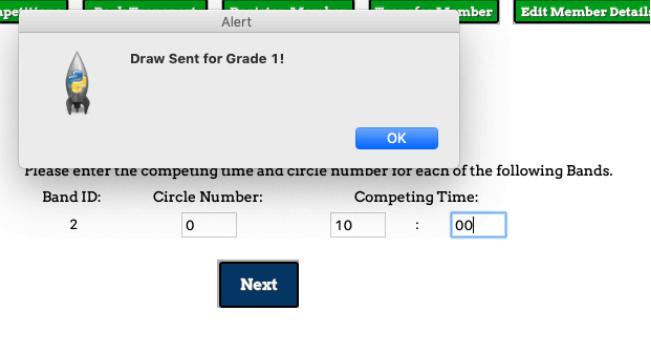
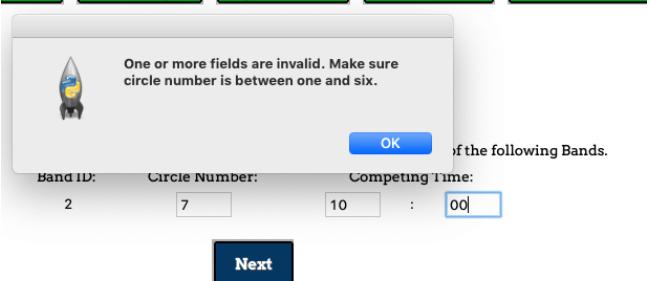
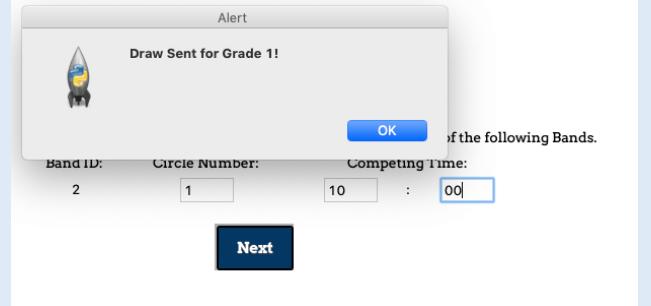
6	Selecting a grade with two bands entered.	Typical	Moira Championships, 2	Draw screen populated with the Band ID and an entry box for the circle number and another for the competing time for both bands.	Functional
7	Selecting a grade with no bands entered	Typical	Moira Championships, Grade = 3B	Message box letting user know there are no bands entered this grade. Grade will be removed from the grade list.	Functional
8	Entering a circle number that is not between the range of possible circles.	Invalid	Circle Number = "0" AND Circle Number = "7"	The user will receive a message stating that the circle number must be between 1 and 6.	Functional
9	Entering a circle number that will test the limits of my validation	Extreme	Circle Number = "1" AND Circle Number = "6"	System will send email to band as these circle numbers are valid.	Functional
10	Entering the earliest competing time and latest competing time	Extreme	Competing Time = "9","00" Competing Time = "17","59"	System will send email to band as these competing times are valid.	Functional
11	Entering an invalid hour and minute for competing time.	Invalid	Competing Time = "5", "00" Competing Time = "9", "69"	System will produce a messagebox. It will state that the time chosen is not between the hours of 9am and 6pm	Functional

12	Completing draw by entering a valid circle number and competing time.	Typical	Grade 1 – Circle Num = "1" Competing time = "10", "00" Grade 2 – Circle Num = "2" Competing time = "10", "00", Circle Num = "2" Competing time = "10", "10" Grade 3A – Circle Num = "3" Competing time = "10", "30" Grade 3B – Circle Num = "4" Competing time = "10", "50" Grade 4B – Circle Num = "5" Competing time = "11", "00"	Grade to be drawn must be selected. The order of grade selected does not matter. Once the grade has been drawn, a message box will appear to user to tell them the draw has been sent and saved. The email sent is to all of the bands entered. The user will then be presented back to the grade list box. Only the grades that haven't been drawn will be shown in the list box. Once all grades have been drawn, another message will let the user know that all grades have been entered, User will be returned to the list of competitions to be drawn. Drawn flag set to true – Band does not appear in drawn competition list box. Competition Draw now available on competitions page for all bands to view. Competition draw saved to database and number of bands in each grade. Results record made for each entry where judges scores are saved to on competition day.	Functional
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Test number	Evidenced test data	Actual outcome	Outcome screenshot	Comments
1	N/A	As expected.		This test has passed.
2		As expected.		This test has passed.

3	N/A	As expected.		This test has passed.
4	N/A	As expected.		This test has passed.
5	N/A	As expected.		This test has passed.

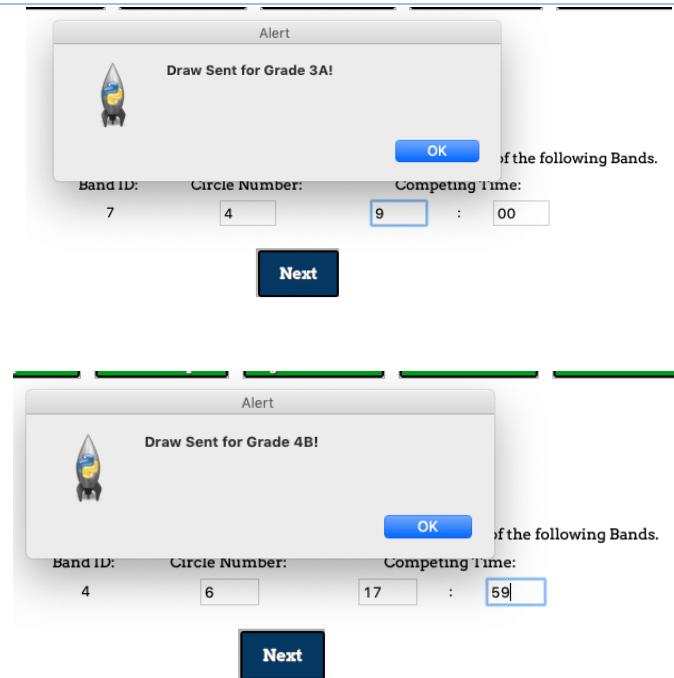
6	N/A	As expected.		This test has passed.
7	N/A	As expected		This test has passed

8	N/A	This outcome was not as expected. My validation had not caught the “0” as an invalid entry.	 	This test failed. However since then I have been able to fix this issue and the user will now receive a message as input is invalid. To fix this bug I had to correct the condition from the value being “>= 0” to “> 0”.
9	N/A	As expected		This test has passed

10

N/A

As expected.

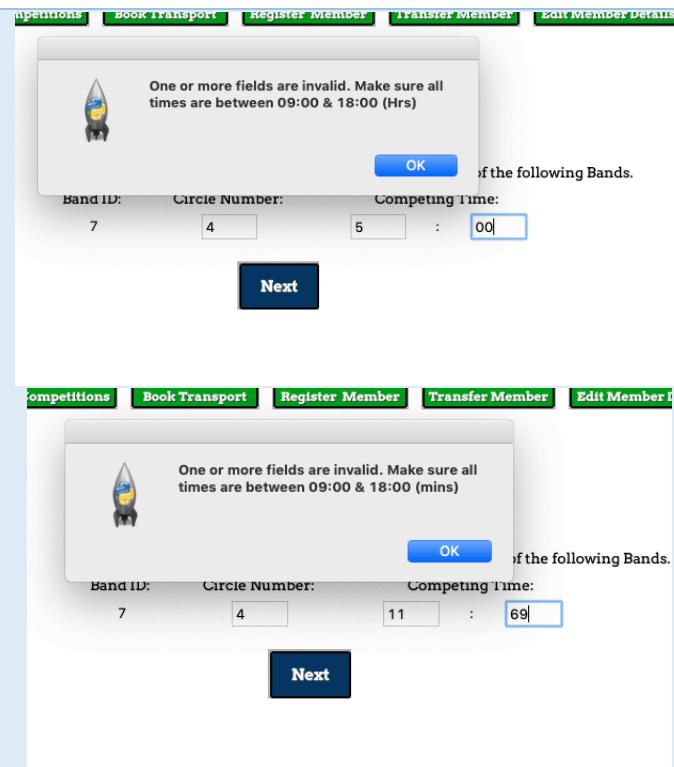


This test has passed.

11

N/A

As expected.



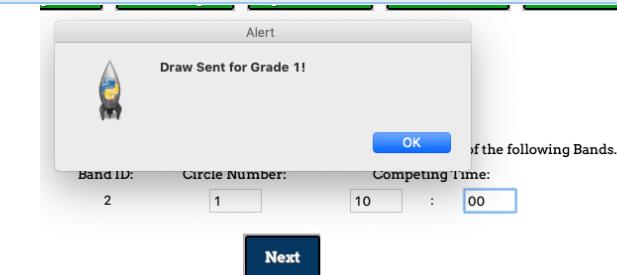
This test has passed

12

Table: CompetitionDraw				
CompetitionID	BandID	EntryID	CircleNumber	CompetingTime
15	Filter	Filter	Filter	Filter

Table: Results									
EntryID	BandID	CompetitionID	PipingJudgeID	PipingScore	PipingComments	PipingJudgeID	PipingScore	PipingComments	TotalPipingScore
Filter	15	Filter	Filter	Filter	Filter	Filter	Filter	Filter	Filter

As expected



This test has passed

Draw for Moira Championships - Grade 1 [Inbox](#)

rspbani.draw@gmail.com
to cdakhane765 ~

19:15 (1 minute ago)

Please see attached Draw for Moira Championships - Grade 1



This screenshot shows the email sent to every band once the draw has taken place.

This screenshot below shows the output that has been produced and sent to each band in each grade



Official Draw for Grade 1

Competition: Moira Championships

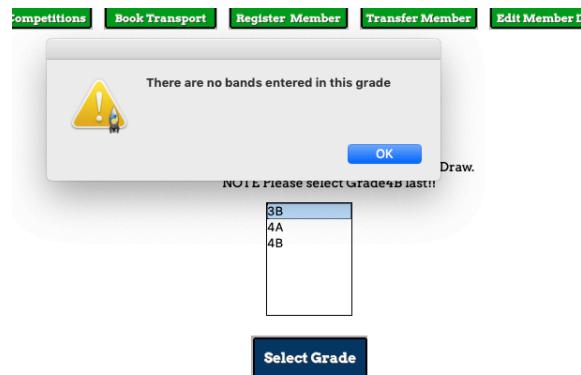
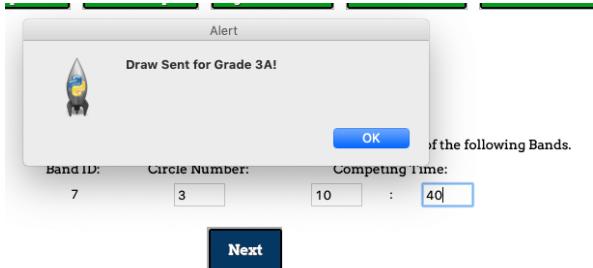
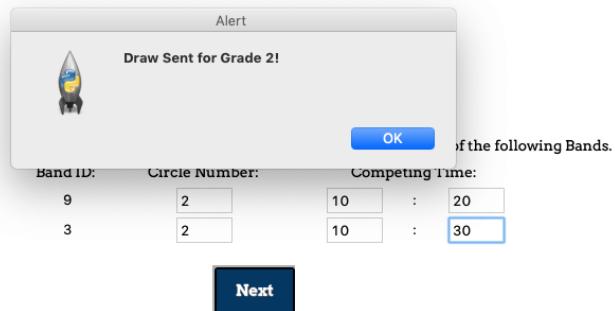
Location: Moira Park

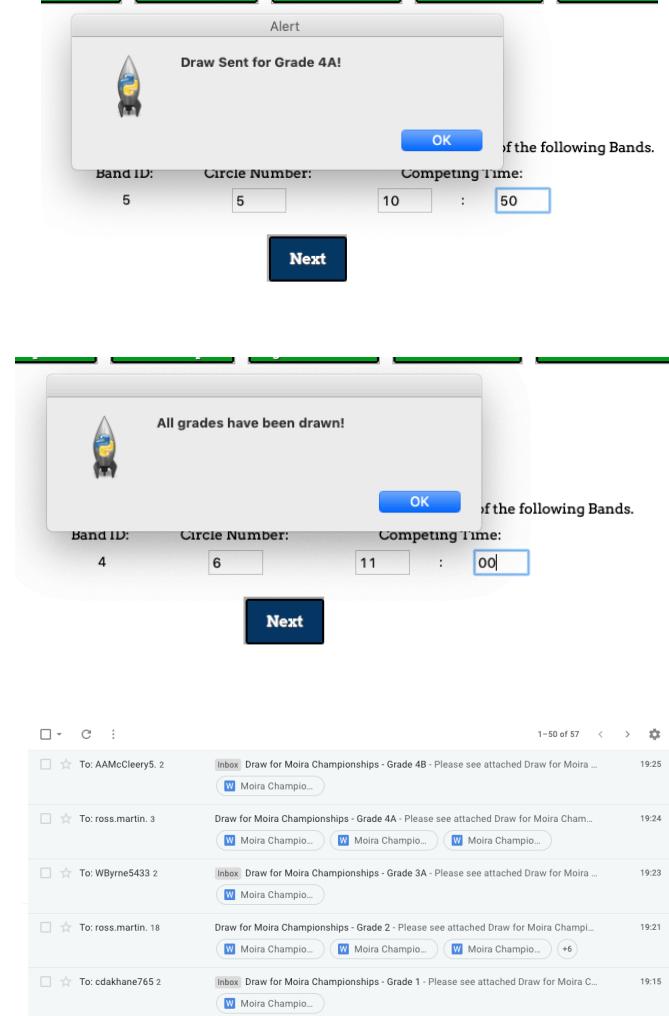
Date: 10/July/2018

Grade 1

Band	Circle Number	Competing Time
-------------	----------------------	-----------------------

PSNI 1 10:00





This screenshot above shows that all bands have been sent the draw for their grade.

View Draw

You have selected: Moira Championships
The Number of Bands Entered grade 2 is: 2

Band:	Circle Number:	Competing Time:
Ravara	2	10:20
Vale Of Atholl	2	10:30

Example of the draw as seen on the competitions page.

Table: Results											
EntryID	BandID	CompetitionID	Piping1JudgeID	Piping1Score	Piping1Comments	Piping2JudgeID	Piping2Score	Piping2Comments	TotalPipingScore	DrummingJudgeID	DrummingScore
1	78	2	15								
2	75	9	15								
3	76	3	15								
4	80	7	15								
5	79	5	15								
6	82	4	15								

This screenshot above shows the creation of the results record for each band once the draw has taken place

This screenshot below shows all the bands Drawn information which can be found on the competitions page.

Table: CompetitionDraw				
CompetitionID	BandID	EntryID	CircleNumber	CompetingTime
15	Filter	Filter	Filter	Filter
1	15	2	78	1
2	15	9	75	2
3	15	3	76	2
4	15	7	80	3
5	15	5	79	5
6	15	4	82	6

This screenshot shows the number of band that have entered each grade which has been calculated after the competition has been drawn.

Competition										New Record	Delete Record
CompetitionID	CompetitionName	CompetitionLocation	CompetitionDate	EntryDeadline	Drawn	NumG1Ent	NumG2Ent	NumG3Ent	NumG3Ent	NumG4Ent	NumG4Ent
Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year	Year
1 1	Ulster Champion... - Ards Castle G...	Ards Castle G...	5/Aug/2018	8/August/2018	True	1	2	1	1	0	2
2 2	Cu. Astur - G...	G...	3/Jun/2018	9/August/2018	True	1	3	1	1	0	2
3 3	Champion of Ch... - Portrush Tennis ...	Portrush Tennis ...	12/September/2018	9/August/2018	True	1	1	1	1	0	2
4 11	CompetitionTests5	22 British Road	6/Nov/2018	9/August/2018	True	1	3	1	1	0	2
5 12	Ards And North ... - Castle Park, Ban...	Castle Park, Ban...	12/May/2018	12/April/2018	True	2	2	1	1	0	2
6 13	Christain Kho - Antrim Gramma...	Antrim Gramma...	14/May/2018	14/April/2018	True	3	3	1	2	0	2
7 14	Lisburn Champ... - Lisburn Malone	Lisburn Malone	3/June/2018	14/May/2018	False	0	0	0	0	0	0
8 15	Morris Champion... - Moors Park	Moors Park	15/Aug/2018	10/May/2018	True	1	2	1	0	1	1
9 16	Mid Ulster Champ... - Cookstown Gra...	Cookstown Gra...	2/June/2018	2/April/2018	False	NULL	NULL	NULL	NULL	NULL	NULL

14. Judges have the ability to write comments about each section and the score bands in competitions.

Before a judge has the ability to write their comments about the performing band, they must navigate their way through a selection of list boxes.

These list boxes ensure that the judge has selected a competition, then the grade they wish to judge and then the section they are judging until they get to list of bands. They can then write their comments and update them if they wish by selecting the band again. Once all the bands have competed. They must score (rank) all the bands in that particular grade. The first test will show the progression of screens until the judge gets to the comments sheet.

Writing Comment sheets:

Test number	Description of test	Test data type (Typical/ Extreme/ Invalid)	Tests data to be used	Expected outcome	Test type (Functional / logical)
1	Navigation testing to the comments sheet for the piping 1 section of Vale of Athol in grade 2 in the Moira championships.	Typical	Moira Championships, 2, Vale of Athol, Piping 1.	<p>The user after each selection will be presented with another selection to make. The screen will have the relevant information on what the user must select.</p> <p>For example, When the user selects the grade of the competition. They will be brought to the Select grade page where should tell the user to select the grade they would like to judge.</p> <p>They is repeated with the bands in the grade and the section they judge is scoring.</p> <p>Finally, the user will be presented with a text area to record their comments about the performance and press save once they are finished.</p>	Functional

2	Navigation testing – not selecting a competition.	Invalid	None	User presented a message box telling them they must select a competition.	Functional
3	Navigation testing – not selecting a grade.	Invalid	None	User presented a message box telling them they must select a grade.	Functional
4	Navigation testing – not selecting a band.	Invalid	None	User presented a message box telling them they must select a band.	Functional
5	Navigation testing – not selecting a section.	Invalid	None	User presented a message box telling them they must select a section.	Functional
6	Entering all sections comments for all bands in grade 2 in the Moira Championships. For each comment sheet instead of writing comments about a bands performance I will populate the comments with the details of the competition, band name and section, I am writing about to show how the data is being saved to the database.	Typical	<CompetitionName>, <BandName>, <Section>	Once the judge has pressed the save button to save their comments about a band, will they be shown back to the list of bands in the grade. Where they can select the next band that is competing.	Logical & Functional
7	Logging in as another judge to test if the ID of the judge is being recorded properly	Typical	Logging on as Winston Pollock.	The Judge ID saved to the database will be of Winston pollocks (2)	Functional

Test number	Evidenced test data	Actual outcome	Outcome screenshot	Comments														
		As expected.	<p>Select Competition</p> <p>Please select the competition you would like to Judge.</p> <table border="1"> <tr><td>Moira Championships</td><td>10/July/2018</td></tr> <tr><td>Christain Kho</td><td>14/May/2018</td></tr> <tr><td>Ards And North Down Championships</td><td>12/May/2018</td></tr> <tr><td>CompetitionTestS</td><td>6/May/2018</td></tr> <tr><td>Champion of Championship</td><td>12/September/2018</td></tr> <tr><td>Co. Antrim</td><td>3/June/2018</td></tr> <tr><td>Ulster Championships</td><td>5/July/2018</td></tr> </table> <p>Select Competition</p>	Moira Championships	10/July/2018	Christain Kho	14/May/2018	Ards And North Down Championships	12/May/2018	CompetitionTestS	6/May/2018	Champion of Championship	12/September/2018	Co. Antrim	3/June/2018	Ulster Championships	5/July/2018	This test has passed
Moira Championships	10/July/2018																	
Christain Kho	14/May/2018																	
Ards And North Down Championships	12/May/2018																	
CompetitionTestS	6/May/2018																	
Champion of Championship	12/September/2018																	
Co. Antrim	3/June/2018																	
Ulster Championships	5/July/2018																	
1	N/A		<p>Select Grade</p> <p>Please select the Grade you would like to Judge.</p> <table border="1"> <tr><td>1</td></tr> <tr><td>2</td></tr> <tr><td>3A</td></tr> <tr><td>3B</td></tr> <tr><td>4A</td></tr> <tr><td>4B</td></tr> </table> <p>Select Grade</p>	1	2	3A	3B	4A	4B									
1																		
2																		
3A																		
3B																		
4A																		
4B																		

Select Band

Please select the Band you wish to Judge.

Vale Of Atholl
Ravara

Select Band

Enter Scoring for Grade 2

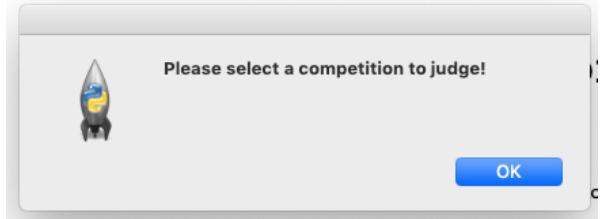
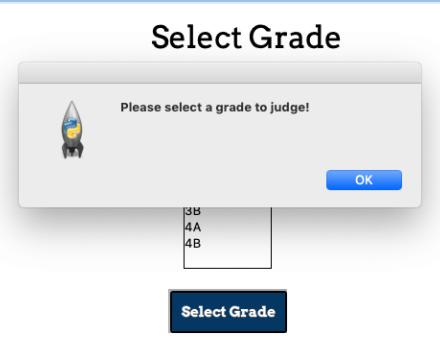
Select Section

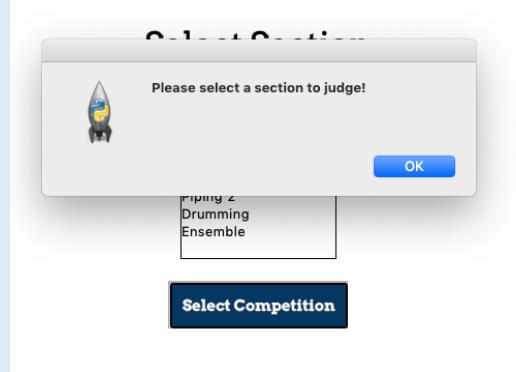
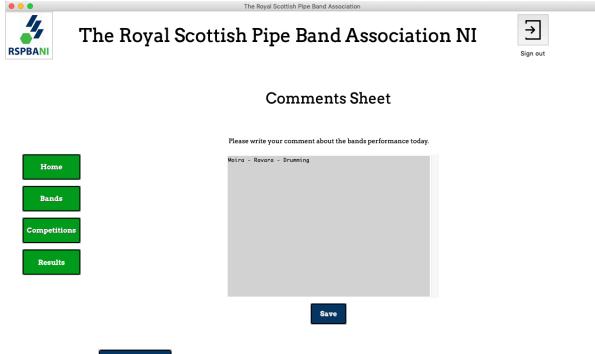
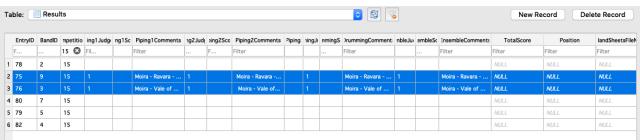
Please select the Section you wish to Judge.

Piping 1
Piping 2
Drumming
Ensemble

Select Competition

The screenshot shows a web application interface for judging pipe bands. At the top, there's a header with the logo 'RSPBANI' and the text 'The Royal Scottish Pipe Band Association NI'. To the right of the header are 'Sign out' and a user icon. Below the header, there's a navigation menu with links: Home, Bands, Competitions, and Results. The main content area is titled 'Comments Sheet' and contains a text input field with the placeholder 'Please write your comment about the bands performance today'. At the bottom of the page, there's a 'Save' button and a link 'Judge Competitions'.

2	N/A	As expected.		This test has passed
3	N/A	As expected.		This test has passed
4	N/A	As expected.		This test has passed

5	N/A	As expected.	 <p>The modal dialog displays the message "Please select a section to judge!" above a logo of a pipe and drum. Below the logo, it lists "Piping & Drumming Ensemble". At the bottom right is a blue "Select Competition" button.</p>	This test has passed
6	<p>Example as it is not necessary to show myself entering all comments as it would be too tedious:</p>  <p>The screenshot shows the RSPBNI website's "Comments Sheet" page. It features a header with the RSPBNI logo and navigation links for Home, Bands, Competitions, and Results. The main content area is titled "Comments Sheet" and contains a text input field with placeholder text "Please write your comment about the bands performance today." Below the input field is a dropdown menu showing "Mora - Ravara - Drumming". At the bottom are "Save" and "Judge Competitions" buttons. The URL in the browser's address bar includes the band ID "9".</p>	As expected.	<p>Outcome after all bands in the grade have competed and judges have submitted their comments.</p>  <p>The first screenshot shows a database table named "Results" with six rows of data. The columns include BandID, Grade, Piping1Judg, Piping1Sc, Piping1Comments, Piping2Judg, Piping2Sc, Piping2Comments, Piping3Judg, Piping3Sc, MarchingComments, MarchingSc, IneligibleComments, TotalScore, Position, and LandSheetField. The last row (BandID 9) has its "Piping1Comments" field filled with "Mora - Ravara -...". The second screenshot shows the same table with a modal dialog overlaid on the "Piping1Comments" field, displaying the text "Mora - Ravara - piping 1".</p>	This test has passed

7		As expected.	<p>Table: Results</p> <table border="1"> <thead> <tr> <th>EntryID</th><th>BandID</th><th>CompetitionID</th><th>Piping1JudgeID</th><th>Piping2JudgeID</th></tr> <tr> <th>Filter</th><th>Fi...</th><th>15</th><th>Filter</th><th>Filter</th></tr> </thead> <tbody> <tr> <td>1</td><td>75</td><td>9</td><td>15</td><td>1</td></tr> <tr> <td>2</td><td>76</td><td>3</td><td>15</td><td>1</td></tr> <tr> <td>3</td><td>78</td><td>2</td><td>15</td><td>1</td></tr> <tr> <td>4</td><td>79</td><td>5</td><td>15</td><td>1</td></tr> <tr> <td>5</td><td>80</td><td>7</td><td>15</td><td>1</td></tr> <tr> <td>6</td><td>82</td><td>4</td><td>15</td><td>2</td></tr> </tbody> </table>	EntryID	BandID	CompetitionID	Piping1JudgeID	Piping2JudgeID	Filter	Fi...	15	Filter	Filter	1	75	9	15	1	2	76	3	15	1	3	78	2	15	1	4	79	5	15	1	5	80	7	15	1	6	82	4	15	2	
EntryID	BandID	CompetitionID	Piping1JudgeID	Piping2JudgeID																																								
Filter	Fi...	15	Filter	Filter																																								
1	75	9	15	1																																								
2	76	3	15	1																																								
3	78	2	15	1																																								
4	79	5	15	1																																								
5	80	7	15	1																																								
6	82	4	15	2																																								
			<p>This screenshot shows that Winston Pollock has been the Piping 2 judge for this competition.</p>																																									

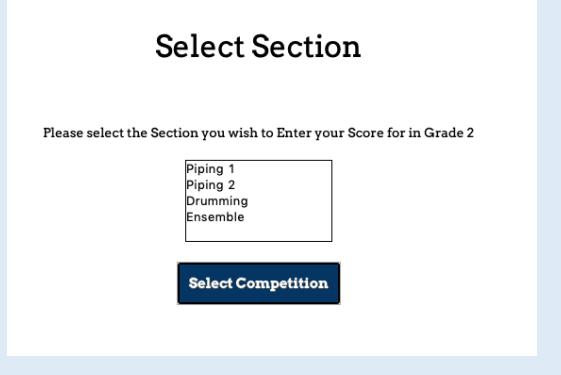
Scoring bands:

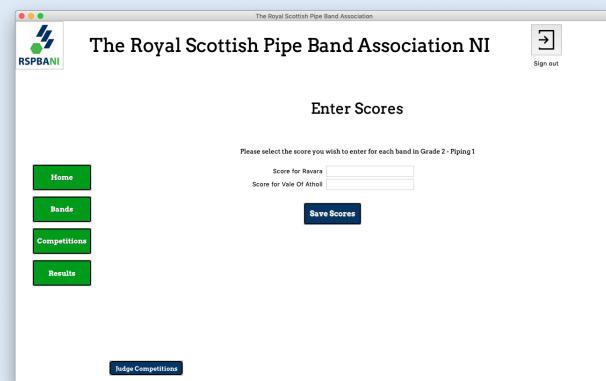
Test number	Description of test	Test data type (Typical/ Extreme/ Invalid)	Tests data to be used	Expected outcome	Test type (Functional / logical)
1	Once the judge has entered their comments about all bands. They must select the enter score button. This will then move them to another page where they must select the section to enter the scores of then another page to rank the	Typical	None	After selecting the section to enter scores, the user will be brought to the enter scores page. For every band entered the competition, they will find an entry box to enter their score for the band.	Functional

	bands of the grade they have just judged.				
2	Entering the same score for both bands.	Invalid	"1", "1"	A message box appears to user that entered scores are not valid. The scores entered must be between 1 and the number of bands entered the grade and scores must not be used twice.	Functional
3	Entering a score above the number of bands entered.	Invalid	"1", "3"	A message box appears to user that entered scores are not valid. The scores entered must be between 1 and the number of bands entered the grade and scores must not be used twice.	Functional
4	Entering a negative score for the band	Invalid	"-1", "2"	A message box appears to user that entered scores are not valid. The scores entered must be between 1 and the number of bands entered the grade and scores must not be used twice.	Functional
5	Entering a letter instead of a number	Invalid	"L", "2"	A message box appears to user that entered scores are not valid. The scores entered must be between 1 and the number of bands entered the grade and scores must not be used twice.	Functional
6	Entering valid scores for both bands in the grade for piping 1.	Typical	"2", "1"	Band Scores saved to the database. Program checks to see if both piping 1 and piping 2 have been entered, if so program will calculate the total piping score for each band. Message box to tell judge scores have been saved.	Functional

7	Entering valid scores for both bands in the grade for piping 2.	Typical	“2”, “1”	Band Scores saved to the database. Program checks to see if both piping 1 and piping 2 have been entered, if so program will calculate the total piping score for each band. Ravara should have a total piping score of 4 and Vale of Athol should have a total score of 2	Functional
8	Entering Score for Piping 2 first, then Piping 1. This is testing to ensure that the total score is still calculated if scores are entered the opposite way around.	Typical	“1”, “2” “1”, “2”	Ravara will have piping 1 & 2 score of 1 Vale will have piping 1 & 2 score of 2 Ravara should have a total piping score of 2 and Vale of Athol should have a total score of 4.	Functional
9	Entering Drumming Score	Typical	None	User must select the best Bass section as well as entering the section score	Logical
10	Entering Ensemble Score	Typical	None	User must select the band with best Marching and deportment as well as entering the section score	Logical
11	Not selecting a band for best Bass section	Invalid	None	A message box displayed to user telling them to select a band for best Bass section	Functional
12	Selecting Ravara as best Bass section in grade 2 of Moira Championships	Valid	Ravara	Scored saved message box. Ravara is saved as best Bass section for grade 2 in the record for the Moira Championships.	Logical
13	Not selecting a band for best Bass section	Invalid	None	A message box displayed to user telling them to select a band for best Bass section	Functional

14	Entering Vale of Athol as the band with best M&D in the ensemble scoring page.	Typical	Vale of Athol	A message box displayed to user telling them to select a band for best M&D	Functional
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Test number	Evidenced test data	Actual outcome	Outcome screenshot	Comments
1	N/A	As expected.	<p>Select Section</p> <p>Please select the Section you wish to Enter your Score for in Grade 2</p> 	This test has passed



Enter Scores

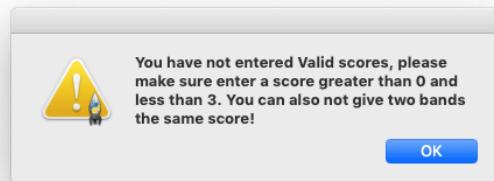
Please select the score you wish to enter for each band in Grade 2 - Piping 1

Score for Ravara

Score for Vale Of Atholl

Save Scores

As expected.



Please select the score you wish to enter for each band in Grade 2 - Piping 1

Score for Ravara

Score for Vale Of Atholl

Save Scores

This test has passed

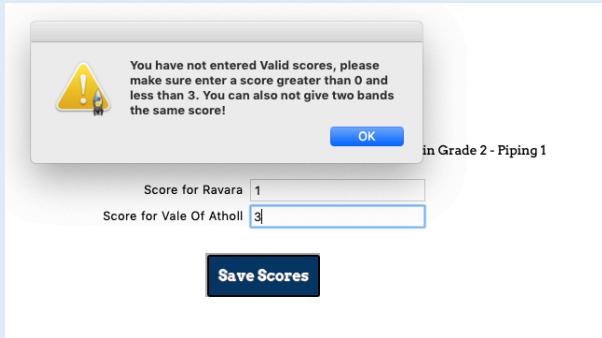
2

Enter Scores

Please select the score you wish to enter for each band in Grade 2 - Piping 1

Score for Ravara
Score for Vale Of Atholl

Save Scores



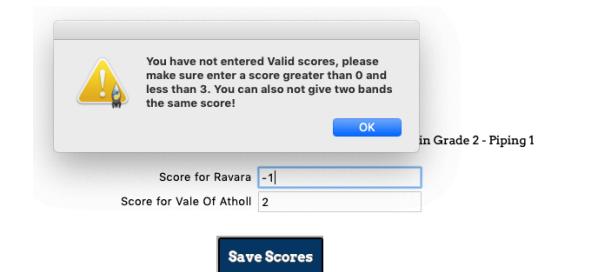
3

Enter Scores

Please select the score you wish to enter for each band in Grade 2 - Piping 1

Score for Ravara
Score for Vale Of Atholl

Save Scores



4

Enter Scores

Please select the score you wish to enter for each band in Grade 2 - Piping 1

Score for Ravara
Score for Vale Of Atholl

Save Scores

System
Crashed.

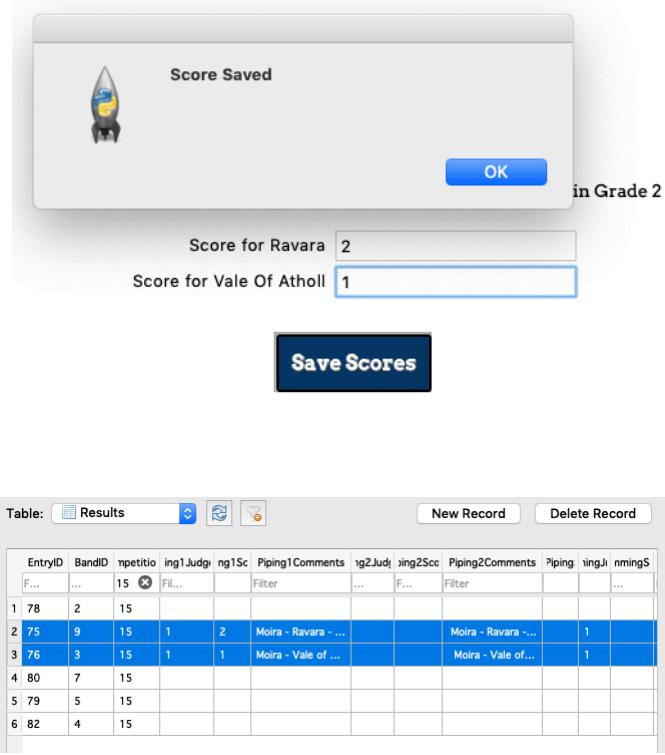
```
Exception in Tkinter callback
Traceback (most recent call last):
  File "/Library/Frameworks/Python.framework/Versions/3.7/lib/python3.7/tkinter/_init_.py", line 1702, in __call__
    return self.func(*args)
  File "r:/Users/RossMartin/Documents/GitHub/A2CourseworkCS/Testing_A2_Coursework.py", line 10006, in <lambda>
    listofJudgeScoreBox)
  File "/Users/RossMartin/Documents/GitHub/A2CourseworkCS/Testing_A2_Coursework.py", line 9902, in ScoreSheetCheck
    if int(BandScore) in possibleScores:
ValueError: invalid literal for int() with base 10: 'L'
```

5

This test failed when it tried to convert a letter to an integer.

6

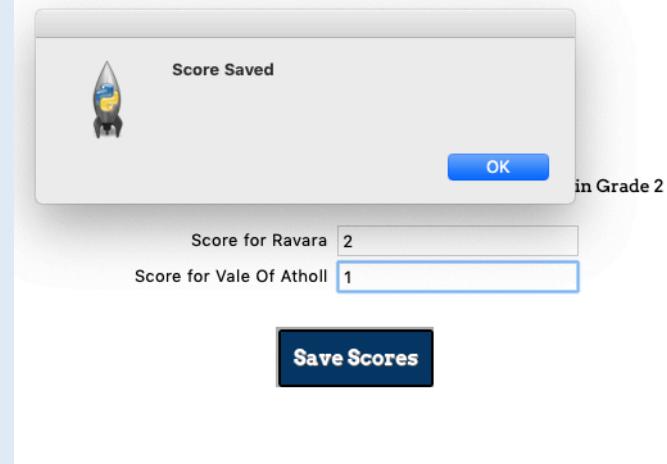
N/A



7

N/A

As expected



This test has passed.

Shows the database after the data has been committed

Table: Results

EntryID	BandID	nrepetitio	ing1Judg	Piping1Score	g1Comr	ng2Judg	Piping2Score	2Comr	TotalPipingScore	ingJ
1 78	2	15								
2 75	9	15	1		Moira...	1		Mo...		1
3 76	3	15	1		Moira...	1		M...		1
4 80	7	15								
5 79	5	15								
6 82	4	15								

8

Table: Results

EntryID	BandID	nrepetitio	ing1Judg	Piping1Score	g1Comr	ng2Judg	Piping2Score	2Comr	TotalPipingScore	ingJ
1 78	2	15								
2 75	9	15	1		Moira...	1		Mo...		1
3 76	3	15	1		Moira...	1		M...		1
4 80	7	15								
5 79	5	15								
6 82	4	15								

As expected

Table: Results

EntryID	BandID	nrepetitio	ing1Judg	Piping1Score	g1Comr	ng2Judg	Piping2Score	2Comr	TotalPipingScore	ingJ
1 78	2	15								
2 75	9	15	1		Moira...	1	1	Mo...		1
3 76	3	15	1		Moira...	1	2	M...		1
4 80	7	15								
5 79	5	15								
6 82	4	15								

This test has passed.

Enter Scores

Please select the score you wish to enter for each band in Grade 2 - Piping 2

Score for Ravara
Score for Vale Of Atholl

Save Scores

Database after only piping 2 entered

Table: Results										
EntryID	BandID	nrepetitio	ing1Judg	Piping1Score	g1Comm	ng2Judg	Piping2Score	2Comm	TotalPipingScore	ingJ
1	78	2	15							
2	75	9	15	1	1	Moira...	1	1	Mo...	2
3	76	3	15	1	2	Moira...	1	2	M...	4
4	80	7	15							
5	79	5	15							
6	82	4	15							

Database once piping 1 is entered.

9

As expected

The Royal Scottish Pipe Band Association NI

Enter Scores

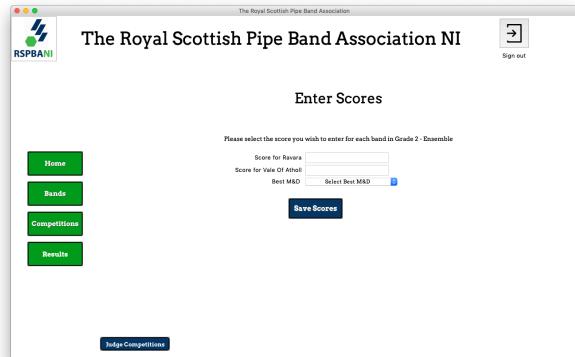
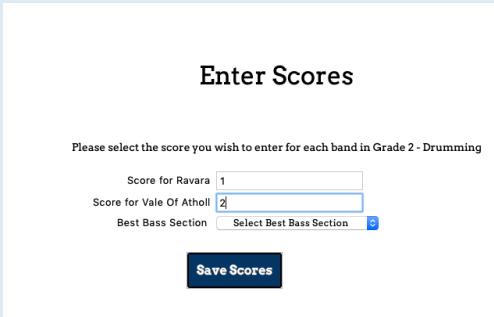
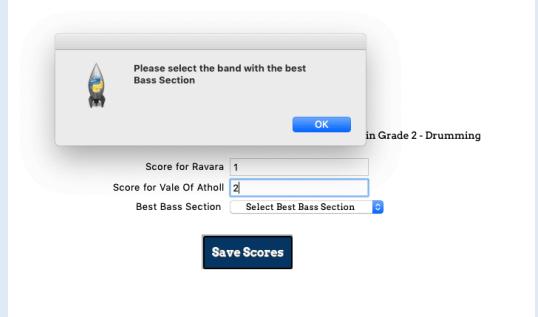
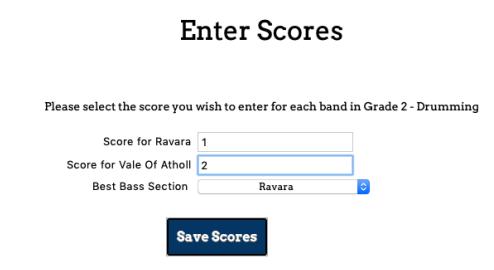
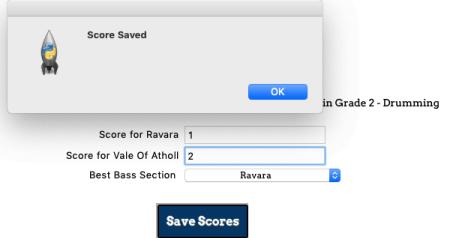
Please select the score you wish to enter for each band in Grade 2 - Drumming

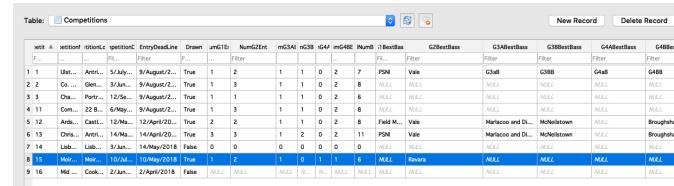
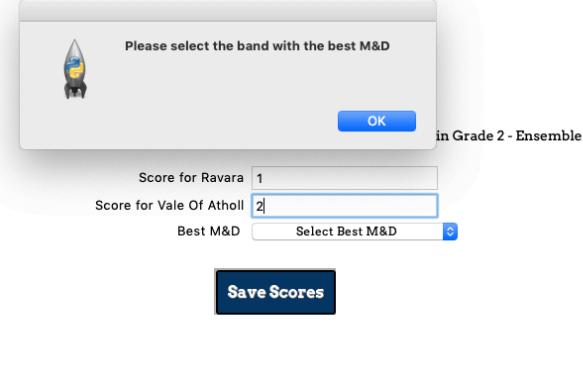
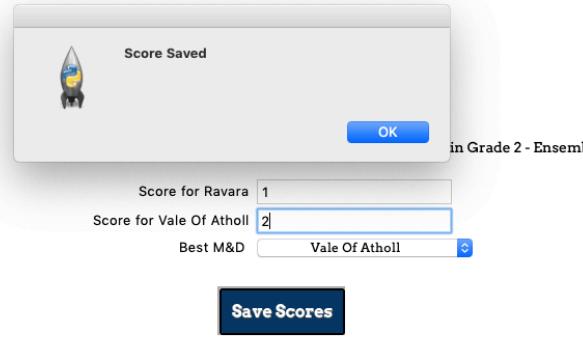
Score for Ravara
Score for Vale Of Atholl
Best Bass Section Select Best Bass Section

Save Scores

[Judge Competitions](#)

This test has passed.

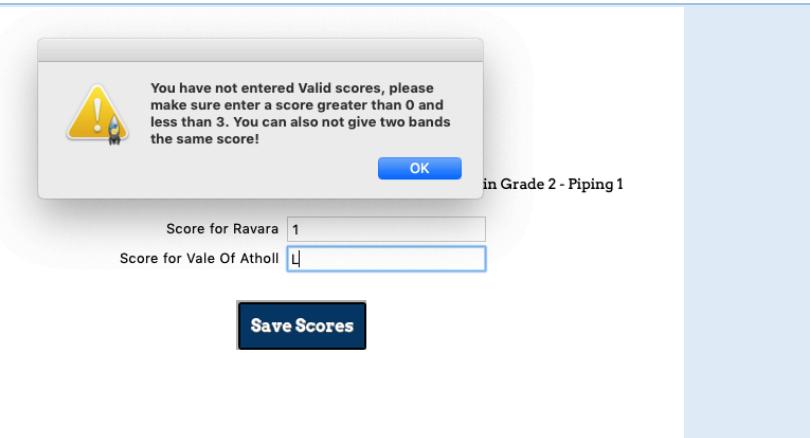
10		As expected		This test has passed.
11		As expected		This test has passed.
12		As expected.		This test has passed.

		This screenshot shows that Ravara have been saved as G2 best Bass section for Moira Championships.	
			
13	<p>Enter Scores</p> <p>Please select the score you wish to enter for each band in Grade 2 - Drumming</p> <p>Score for Ravara: 1 Score for Vale Of Atholl: 2 Best Bass Section: Select Best Bass Section</p> <p>Save Scores</p>	As expected.	
14	<p>Enter Scores</p> <p>Please select the score you wish to enter for each band in Grade 2 - Drumming</p> <p>Score for Ravara: 1 Score for Vale Of Atholl: 2 Best Bass Section: Vale Of Atholl</p> <p>Save Scores</p>	As expected.	

Competitions																	New Record	Delete Record		
id	A	CompetitionName	idBand	splitband	EntryDeadline	Drawn	mG1fb	NumG2fb	mG3fb	mG3fb	mG4fb	mG4fb	Numfb	1Bestfb	2Bestfb	3Bestfb	4Bestfb	G2Bestfb	G3fb	G3fb
1	1	User Championships	Artd...	5/Apr...	15/August/20...	True	1	2	1	1	0	2	7	FZN	Vale	GStall	G...	G...	Vale	GZAM
2	2	Co Antrim	G...	3/Jan...	15/August/20...	True	1	1	1	1	0	2	8	MELL	MELL	MELL	MELL	MELL	MELL	MELL
3	3	Champion of Champion	Potr...	13/Jan...	15/August/20...	True	1	1	1	1	0	2	6	MELL	MELL	MELL	MELL	MELL	MELL	MELL
4	11	CompetitionTest	22 B...	6/May...	9/August/20...	True	1	3	1	1	0	2	8	MELL	MELL	MELL	MELL	MELL	MELL	MELL
5	12	Ards And North Down	Cert...	12/Mar...	12/April/20...	True	2	2	1	1	0	2	8	Field M...	Vale	Ma...	M...	M...	Fl...	Vale
6	13	Christian Kho	Artd...	14/Mar...	14/April/20...	True	3	3	1	2	0	2	11	FZN	Vale	Ma...	M...	M...	Fl...	Vale
7	14	Lisburn Championships	Lisb...	3/Jan...	14/May/2018	False	0	0	0	0	0	0	0	MELL	MELL	MELL	MELL	MELL	MELL	MELL
8	15	Moira Championships	Mo...	10/Jun...	10/May/2018	True	1	2	1	0	1	1	6	MELL	Ravers	MELL	M...	M...	Vale Of Atholl	ZJAL
9	16	Mid Ulster Championships	Cook...	2/Jan...	2/Apr/2018	False	MELL	MELL	MELL	N...	N...	MELL	MELL	MELL	MELL	MELL	MELL	MELL	MELL	MELL

This screenshot shows the inputted data being saved to the database under the correct competition.

Test number	Issue	Resolution	Commentary
5	Program can't convert a letter to an integer.	<pre> if BandScore == "": # a number that will never be a possible score # because if the field is left blank then it cant convert "" to a integer BandScore = "0" elif BandScore.isdigit() == False: # if input is not a number then it is invalid so i am setting the BandScore to 0 as it is valid # however can never be a possible score so will be caught further on in the validation routine BandScore = "0" if int(BandScore) in possibleScore: SectionScore[ListBands[n]] = BandScore possibleScore.remove(int(BandScore)) print("PossibleScore" + str(possibleScore)) print("List" + str(ValidPossScoreList)) n += 1 else: # ScoreSheet(grade, ListBands, listOfJudgeScoreBox) ValidCount -= 1 </pre>	I included an additional comparison check to ensure that all invalid data which could be entered would be caught. I created a statement where I checked if the digit was not a number. If the data wasn't a number then I set it to "0" so that during the remainder of the validation routine it got caught instead and the message box was hit.



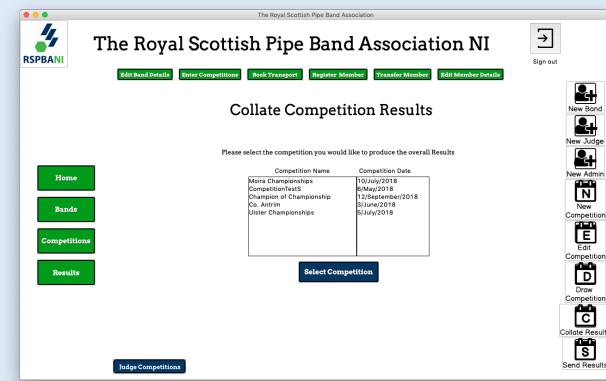
15. Admins then have the ability to collate the judges results and produce the results and send them to all bands and update the latest results feed on home page.

Collating and production of results from judges scores:

Test number	Description of test	Test data type (Typical/ Extreme/ Invalid)	Tests data to be used	Expected outcome	Test type (Functional / logical)
1	Displaying only competitions that have been drawn and not already collated will appear in the list box	N/A	None	Only competitions that have the Drawn flag set to True and the Collated flag set to False will appear in the list box.	Logical
2	Pressing the select competition button without selecting a competition from the list box of competitions	Invalid	None	A message box telling user to select a competition to collate its results	Functional
3	Pressing button to collating results of Moira Championships	Typical	None	Total score for every band in competition calculated.	Logical

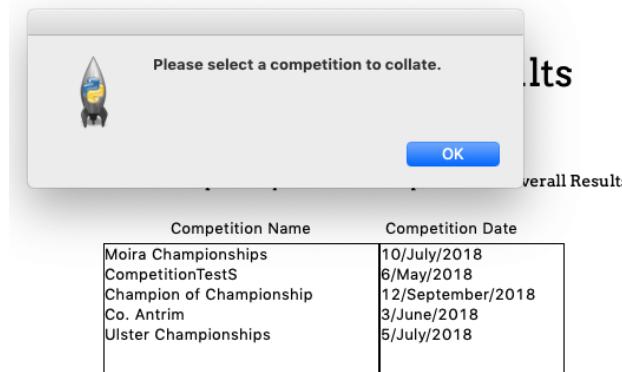
				<p>For each grade, the bands scores are compared and then are placed from 1st to last. In the event of two or more bands getting the same score, the ensemble score of the bands are compared and the band with the lowest ensemble score are placed ahead of the other. These positions are saved to the database.</p> <p>For each band, their comments sheets are produced using the docx library, with the judge who marked them the competitions details and their written comments. The file is named using the Entry ID as this is unique and saved to database. Message box displayed once all sheets have been created.</p> <p>The full results are also produced, the scores for each section for each band in every grade are published in this document along with their total score and position. The grade is then ranked by Position for the first band is at the top and last is at the bottom. The individual best bass and best M&D will also be found after the full results summary for each grade.</p>	
4	Creating results whereby two bands will have the same overall score to ensure my program is able to order them by ensemble score in this case.	Typical	Vale of Athol - Total score = 6, Ensemble Score = 2	Ravara will be first as they have the lowest ensemble score	Logical

			Ravara – Total Score = 6, Ensemble Score = 1		
5	Creating full results when no bands have entered the grade.	Typical	Grade 3A in Moira Championships	The results sheet for this grade will just show no bands. For the individual prizes, they will just be blank.	Functional

Test number	Evidenced test data	Actual outcome	Outcome screenshot	Comments
1	<p>Table: Competitions</p>  <p>As expected.</p>		 <p>This screenshot shows the populated list box with all the competitions that are eligible for collation.</p>	<p>This test has passed</p>

2

N/A

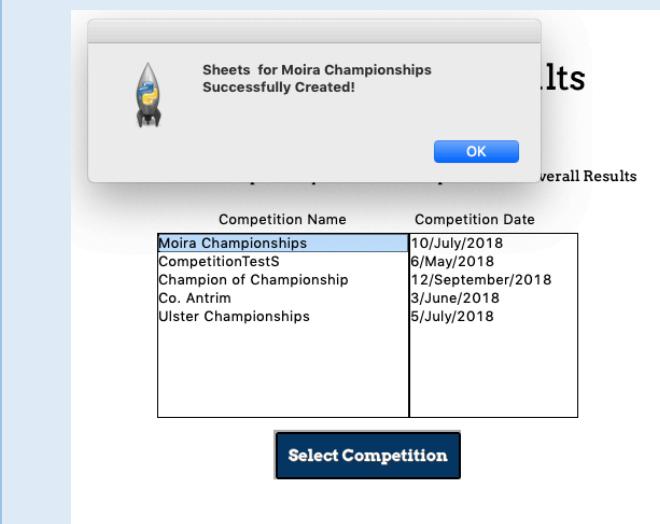


3

Entry ID 75 is Ravara

Entry ID 76 is Vale of Athol

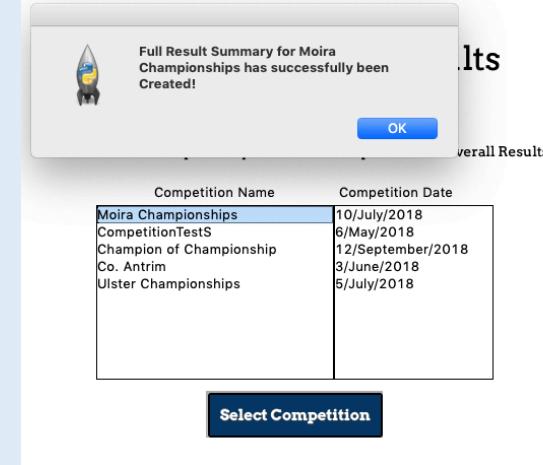
EntryID	BandID	ctr	A	Ingl Judge	g15	PipingComments	g25	g25 gCover	TotalPipingScore	Ingl	DrummingComments	Ins	EnsembleComments	EnsembleComments	TotalScore
1	78	2	15	1	1	Moira - Piping 1	1	1	Moira - 2	1	Moira - Piping - Drums	1	Moira - Piping Ensemble	1	Moira - Piping Ensemble - ALL
2	75	9	15	1	1	Moira - Ravara - Piping 1	1	1	Moira - 2	1	Moira - Ravara - Piping - Drums	1	Moira - Ravara Ensemble	1	Moira - Ravara Ensemble - ALL
3	76	10	15	1	2	Moira - Vale of Athol - piping 1	1	2	Moira - 4	1	Moira - Vale of Athol - Drums	1	Moira - Vale of Athol Ensemble	1	Moira - Vale of Athol Ensemble - ALL
4	80	7	15	1	1	Moira - Veritas - piping 1	1	1	Moira - 2	1	Moira - Veritas - Drums	1	Moira - Veritas Ensemble	1	Moira - Veritas Ensemble - ALL
5	79	5	15	1	1	Moira - Broughshane - Piping 1	1	1	Moira - 2	1	Moira - Broughshane - Drums	1	Moira - Broughshane Ensemble	1	Moira - Broughshane Ensemble - ALL
6	82	4	15	1	1	Moira - Ballydoherty - Piping 1	1	1	Moira - 2	1	Moira - Ballydoherty - Drums	1	Moira - Ballydoherty Ensemble	1	Moira - Ballydoherty Ensemble - ALL



This test has passed. I have been able to check using Broughshane as an example for the comment sheets that they have been created with the correct information due to the comments relating to the section and band.

I have manually checked to ensure all the results found in the full results summary are correct and all information has been pulled and populated in the output correctly.

The grade 2 results show that the bands are



This screenshot shows the breakdown of all the section results. The highlighted are Ravara and Vale of Athol.

The results seen here are correctly reflected in both Outputs.

Table: Results															New Record	Delete Record	
EntryID	BandID	CompetitionID	EngLAdv	PipingScore	Corm	PipingScore	Cor	TotalPipingScore	EngL	DrummingScore	EngC	Blitz	EnsemblesScore	IC	TotalScore	Position	and shear if relevant A
1	75	15	1	1	M.	1	1	2	1	1	1	1	1	1	75	1	75 decs
2	76	15	1	2	M.	1	2	3	1	1	1	1	1	1	76	2	76 decs
3	78	15	1	1	M.	1	1	2	1	1	1	1	1	4	1	78 decs	
4	79	15	1	1	M.	1	1	2	1	1	1	1	1	4	1	79 decs	
5	80	7	15	1	M.	1	1	2	1	1	1	1	1	4	1	80 decs	
6	82	4	15	1	M.	1	1	2	1	1	1	1	1	4	1	82 decs	

This example results sheet shows that the band has been matched along with the piping 1 comments.

displayed and ordered by overall position.



Official Results Summary

Competition: Moira Championships

Location: Moira Park

Date: 10/July/2018

Band: Broughshane And District

Adjudicator: Winston Pinkerton

Section: Piping 1

Moira - Broughshane - Piping 1

The following screenshots show the full results summary
which has been produced from the results of the
competition in the database



Official Results Summary

competition: Moira Championships

Location: Moira Park

Date: 10/July/2018

Grade 1 Results

Band	Piping 1	Piping 2	Total Piping	Drumming	Ensemble	Total	Overall Position
PSNI	1	1	2	1	1	4	1

Best Pipes: PSNI

Best Drum Corp: PSNI

Best Bass Section: PSNI

Best M&D: PSNI

Grade 2 Results

Band	Piping 1	Piping 2	Total Piping	Drumming	Ensemble	Total	Overall Position
Ravara	1	1	2	1	1	4	1
Vale Of Atholl	2	2	4	2	2	8	2

Best Pipes: Ravara

Best Drum Corp: Ravara

Best Bass Section: Ravara

Best M&D: Vale Of Atholl

4			Grade 2 Results								
			Band 1	Piping 2	Total Piping	Drumming	Ensemble	Total	Overall Position		
			Ravara	2	1	3	2	1	6	1	
			Vale Of Atholl	1	2	3	1	2	6	2	

		As expected.	<p>Grade 3B Results</p> <table border="1"> <thead> <tr> <th>Band</th><th>Piping 1</th><th>Piping 2</th><th>Total Piping</th><th>Drumming</th><th>Ensemble</th><th>Total</th><th>Overall Position</th></tr> </thead> <tbody> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table> <p>Best Pipes: Best Drum Corp: Best Bass Section: Best M&D:</p>	Band	Piping 1	Piping 2	Total Piping	Drumming	Ensemble	Total	Overall Position									This test has passed
Band	Piping 1	Piping 2	Total Piping	Drumming	Ensemble	Total	Overall Position													
5	N/A																			

Sending results and updating results feed:

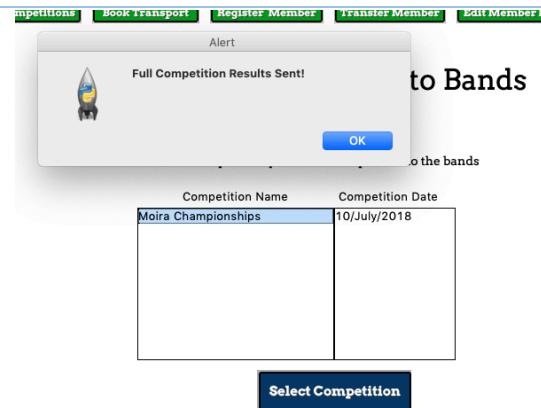
Test number	Description of test	Test data type (Typical/ Extreme/ Invalid)	Tests data to be used	Expected outcome	Test type (Functional / logical)
1	Viewing competitions in the Results list box	N/A	None	Only competitions that have the Collated Flag set to True and The SentToBands Flag sent to False should appear in this list box.	Functional
2	Sending Results to Bands	Typical	Moira Championships	All Bands registered to the association will receive a copy of the results file attached to an email sent from the association.	Functional

				Each band entered will then receive their comments sheets individually.	
3	Updating the Results news feed on sending of Results	Typical	Moira Championships	Home page Latest results will be updated to the most recently sent out results, as the Latest Flag is set to False for all Bands and the competitions just sent is set to True.	Functional

Test number	Evidenced test data	Actual outcome	Outcome screenshot	Comments																																																																																																																																																																																																																
1	<p>Table: Competitions</p> <table border="1"> <thead> <tr> <th>ID</th> <th>CompetitionName</th> <th>Title</th> <th>Sector</th> <th>Address</th> <th>Drawn</th> <th>ResultFlag</th> <th>ResultDate</th> <th>Collected</th> <th>ResultSentDate</th> <th>Latest</th> <th>SentToBands</th> </tr> </thead> <tbody> <tr><td>1</td><td>Ards And North Dr...</td><td>Gao...</td><td>12/...</td><td>True</td><td>2</td><td>2</td><td>1</td><td>1</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>2</td><td>Ulster Championships</td><td>Ard...</td><td>5/...</td><td>9/A...</td><td>True</td><td>1</td><td>2</td><td>1</td><td>1</td><td>0</td><td>2</td></tr> <tr><td>3</td><td>Co. Antrim</td><td>Ge...</td><td>3/...</td><td>9/A...</td><td>True</td><td>1</td><td>3</td><td>1</td><td>1</td><td>0</td><td>2</td></tr> <tr><td>4</td><td>Champion of Champ...</td><td>Pir...</td><td>12/...</td><td>9/A...</td><td>True</td><td>1</td><td>1</td><td>1</td><td>0</td><td>2</td><td>4</td></tr> <tr><td>5</td><td>Competition Test</td><td>22...</td><td>6/...</td><td>9/A...</td><td>True</td><td>1</td><td>3</td><td>1</td><td>1</td><td>0</td><td>2</td></tr> <tr><td>6</td><td>Competition Test</td><td>22...</td><td>6/...</td><td>9/A...</td><td>True</td><td>1</td><td>3</td><td>1</td><td>1</td><td>0</td><td>2</td></tr> <tr><td>7</td><td>Moira Championships</td><td>Moi...</td><td>10/...</td><td>12/...</td><td>True</td><td>1</td><td>2</td><td>1</td><td>0</td><td>1</td><td>6</td></tr> <tr><td>8</td><td>Moira Championships</td><td>Lab...</td><td>10/...</td><td>14/...</td><td>False</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>9</td><td>Mid Ulster Champs...</td><td>Co...</td><td>2/...</td><td>2/A...</td><td>False</td><td>NULL</td><td>NULL</td><td>NULL</td><td>NULL</td><td>NULL</td><td>NULL</td></tr> <tr><td>10</td><td>Mid Ulster Champs...</td><td>Co...</td><td>2/...</td><td>2/A...</td><td>False</td><td>NULL</td><td>NULL</td><td>NULL</td><td>NULL</td><td>NULL</td><td>NULL</td></tr> <tr><td>11</td><td>Mid Ulster Champs...</td><td>Co...</td><td>2/...</td><td>2/A...</td><td>False</td><td>NULL</td><td>NULL</td><td>NULL</td><td>NULL</td><td>NULL</td><td>NULL</td></tr> <tr><td>12</td><td>Mid Ulster Champs...</td><td>Co...</td><td>2/...</td><td>2/A...</td><td>False</td><td>NULL</td><td>NULL</td><td>NULL</td><td>NULL</td><td>NULL</td><td>NULL</td></tr> <tr><td>13</td><td>Mid Ulster Champs...</td><td>Co...</td><td>2/...</td><td>2/A...</td><td>False</td><td>NULL</td><td>NULL</td><td>NULL</td><td>NULL</td><td>NULL</td><td>NULL</td></tr> <tr><td>14</td><td>Mid Ulster Champs...</td><td>Co...</td><td>2/...</td><td>2/A...</td><td>False</td><td>NULL</td><td>NULL</td><td>NULL</td><td>NULL</td><td>NULL</td><td>NULL</td></tr> <tr><td>15</td><td>Moira Championships</td><td>Moi...</td><td>10/...</td><td>12/...</td><td>True</td><td>1</td><td>2</td><td>1</td><td>0</td><td>1</td><td>6</td></tr> <tr><td>16</td><td>Mid Ulster Champs...</td><td>Co...</td><td>2/...</td><td>2/A...</td><td>False</td><td>NULL</td><td>NULL</td><td>NULL</td><td>NULL</td><td>NULL</td><td>NULL</td></tr> </tbody> </table>	ID	CompetitionName	Title	Sector	Address	Drawn	ResultFlag	ResultDate	Collected	ResultSentDate	Latest	SentToBands	1	Ards And North Dr...	Gao...	12/...	True	2	2	1	1	0	0	0	2	Ulster Championships	Ard...	5/...	9/A...	True	1	2	1	1	0	2	3	Co. Antrim	Ge...	3/...	9/A...	True	1	3	1	1	0	2	4	Champion of Champ...	Pir...	12/...	9/A...	True	1	1	1	0	2	4	5	Competition Test	22...	6/...	9/A...	True	1	3	1	1	0	2	6	Competition Test	22...	6/...	9/A...	True	1	3	1	1	0	2	7	Moira Championships	Moi...	10/...	12/...	True	1	2	1	0	1	6	8	Moira Championships	Lab...	10/...	14/...	False	0	0	0	0	0	0	9	Mid Ulster Champs...	Co...	2/...	2/A...	False	NULL	NULL	NULL	NULL	NULL	NULL	10	Mid Ulster Champs...	Co...	2/...	2/A...	False	NULL	NULL	NULL	NULL	NULL	NULL	11	Mid Ulster Champs...	Co...	2/...	2/A...	False	NULL	NULL	NULL	NULL	NULL	NULL	12	Mid Ulster Champs...	Co...	2/...	2/A...	False	NULL	NULL	NULL	NULL	NULL	NULL	13	Mid Ulster Champs...	Co...	2/...	2/A...	False	NULL	NULL	NULL	NULL	NULL	NULL	14	Mid Ulster Champs...	Co...	2/...	2/A...	False	NULL	NULL	NULL	NULL	NULL	NULL	15	Moira Championships	Moi...	10/...	12/...	True	1	2	1	0	1	6	16	Mid Ulster Champs...	Co...	2/...	2/A...	False	NULL	NULL	NULL	NULL	NULL	NULL	As expected	<p>This shows the competitions in the results listbox</p> <p>Send Competition Results to Bands</p> <p>Please select the competition you would like publish to the bands</p> <table border="1"> <thead> <tr> <th>Competition Name</th> <th>Competition Date</th> </tr> </thead> <tbody> <tr> <td>Moira Championships</td> <td>10/July/2018</td> </tr> </tbody> </table> <p>Select Competition</p>	Competition Name	Competition Date	Moira Championships	10/July/2018	This test has passed
ID	CompetitionName	Title	Sector	Address	Drawn	ResultFlag	ResultDate	Collected	ResultSentDate	Latest	SentToBands																																																																																																																																																																																																									
1	Ards And North Dr...	Gao...	12/...	True	2	2	1	1	0	0	0																																																																																																																																																																																																									
2	Ulster Championships	Ard...	5/...	9/A...	True	1	2	1	1	0	2																																																																																																																																																																																																									
3	Co. Antrim	Ge...	3/...	9/A...	True	1	3	1	1	0	2																																																																																																																																																																																																									
4	Champion of Champ...	Pir...	12/...	9/A...	True	1	1	1	0	2	4																																																																																																																																																																																																									
5	Competition Test	22...	6/...	9/A...	True	1	3	1	1	0	2																																																																																																																																																																																																									
6	Competition Test	22...	6/...	9/A...	True	1	3	1	1	0	2																																																																																																																																																																																																									
7	Moira Championships	Moi...	10/...	12/...	True	1	2	1	0	1	6																																																																																																																																																																																																									
8	Moira Championships	Lab...	10/...	14/...	False	0	0	0	0	0	0																																																																																																																																																																																																									
9	Mid Ulster Champs...	Co...	2/...	2/A...	False	NULL	NULL	NULL	NULL	NULL	NULL																																																																																																																																																																																																									
10	Mid Ulster Champs...	Co...	2/...	2/A...	False	NULL	NULL	NULL	NULL	NULL	NULL																																																																																																																																																																																																									
11	Mid Ulster Champs...	Co...	2/...	2/A...	False	NULL	NULL	NULL	NULL	NULL	NULL																																																																																																																																																																																																									
12	Mid Ulster Champs...	Co...	2/...	2/A...	False	NULL	NULL	NULL	NULL	NULL	NULL																																																																																																																																																																																																									
13	Mid Ulster Champs...	Co...	2/...	2/A...	False	NULL	NULL	NULL	NULL	NULL	NULL																																																																																																																																																																																																									
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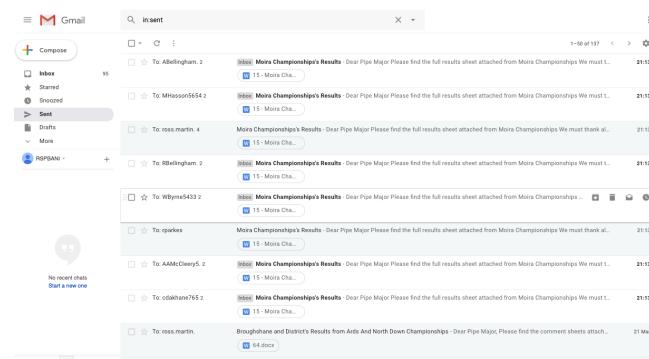
2

As expected



to Bands

This screenshot shows the full results sheet being sent to all bands.



This test has passed

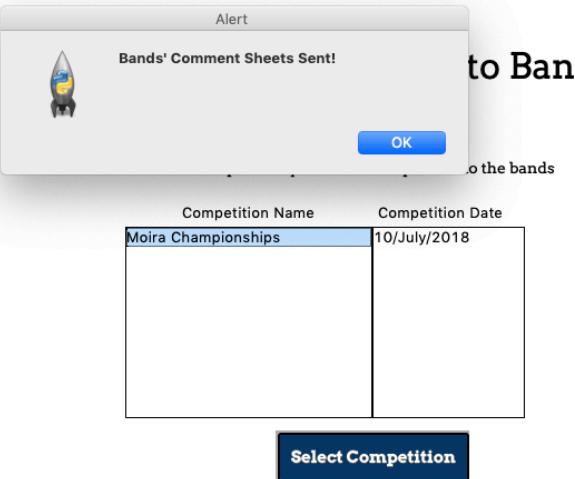
Moira Championships's Results [Inbox](#)

rspbani.results@gmail.com
to ABellingham436543

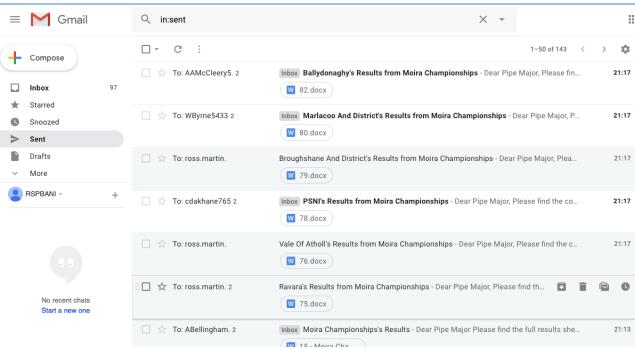
Dear Pipe Major
Please find the full results sheet attached from Moira Championships

We must thank all the competing Bands and the supporters they bring for their continued support throughout the season

The Royal Scottish Pipe Band Association



This screenshot shows all 6 emails being sent to the entered bands with their comments attached.



This is an example email sent to an entered band with their results attached.

Broughshane And District's Results from Moira Championships [Inbox](#)

 rspbani.results@gmail.com to me 9:17 PM (2 minutes ago)

Dear Pipe Major,
Please find the comment sheets attached from the Moira Championships

Congratulations on your recent result. We hope to see you at the next competition.

The Royal Scottish Pipe Band Association



3

As expected.

The screenshot shows a web application interface for the Royal Scottish Pipe Band Association Northern Ireland Branch (RSPBANI). The top navigation bar includes links for 'Edit Band Details', 'Enter Competitions', 'Book Transport', 'Register Member', 'Transfer Member', and 'Edit Member Details'. On the left, a sidebar menu lists 'Home', 'Bands', 'Competitions' (which is highlighted in green), and 'Results'. The main content area displays a photograph of several pipe bands in kilts. To the right of the photo is a section titled 'Latest Results' with the following data:

Competition Name	Minn Championships
Competition Date:	20th April 2016
Grade 1A	1st - PSNI
Grade 2	1st - Ulster
Grade 3A	1st - Marlocoo And District
Grade 3B	1st - Newry Entered
Grade 4A	1st - Broghaghane And District
Grade 4B	1st - Ballydugan

At the bottom of this section is a 'Judge Competitions' button. To the right of the main content is a vertical sidebar with icons and labels for various administrative functions: 'New Band', 'New Judge', 'New Admin', 'New Competition', 'Edit Competition', 'Draw Competition', 'Collate Results', and 'Send Results'. A 'Sign out' link is located at the top right of the sidebar.

This test has passed

Extreme testing field data

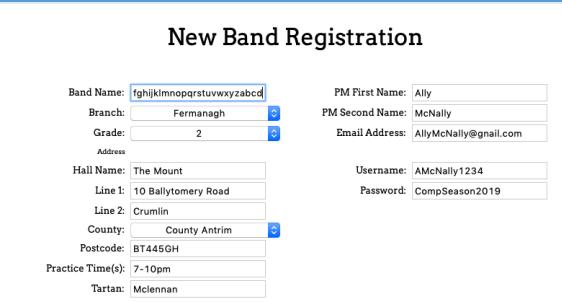
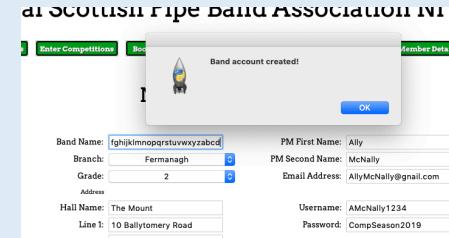
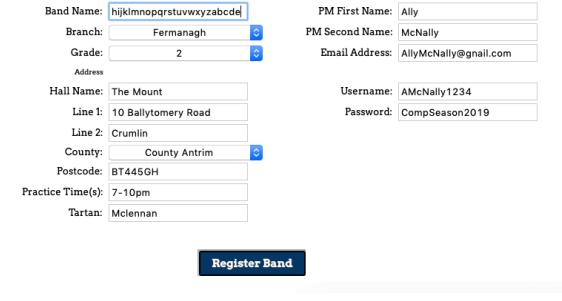
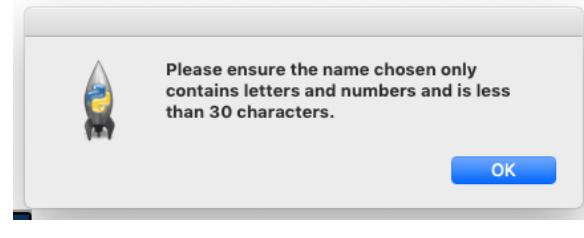
I have extensively tested all data that could be inputted into my system from filling out the many forms on my system. Below I have shown examples of the extreme tests that I have performed on my system to ensure it meets the required criteria of field length in my data structure design in my design section.

The following tests are to ensure extreme data can be entered into my system and still be accepted:

Test number	Description of test	Test data type (Typical/ Extreme/ Invalid)	Tests data to be used	Expected outcome	Test type (Functional / logical)
1a	Testing to ensure extreme data can be entered into my system and still be accepted: BandName can take a length of 30 characters.	Extreme	“abcdefghijklmнопqrstuvwxyzabcd”	Band Name will be accepted	Logical
1b	BandName can take a length of 31 characters.	Invalid	“abcdefghijklmнопqrstuvwxyzabcdе”	Band Name will not be accepted	Logical
2a	Address Line 1 can be a length of 60	Extreme	“1abcdefghijklmнопqrstuvwxyzабсdefghij klmnopqrstuvwxyz abcdefg”	Address Line 1 will be accepted	Logical
2b	Address Line 1 cannot be a length of 61	Invalid	“1abcdefghijklmнопqrstuvwxyzабсdefghij klmnopqrstuvwxyz”	Address Line 1 will not be accepted	Logical

			“abcdefg”		
3a	Address Line 2 can be a length of 60 but not 61	Extreme	“1abcdefghijklmnpqrst uvwxyzabcdeghij klmnopqrstuvwxyz abcdefg”	Address Line 2 will be accepted	Logical
3b	Address Line 2 cannot be a length of 61	Invalid	“1abcdefghijklmnpqrst uvwxyzabcdeghij klmnopqrstuvwxyz abcdefg”	Address Line 2 will not be accepted	Logical
4a	Email address can be a length of 60	Extreme	“abcdefghijklmnpqrst uvwxyzabcdeghij klmnopqrstu@wxyz. abcdefg”	Email Address will be accepted	Logical
4b	Email address cannot be a length of 61	Invalid	“abcdefghijklmnpqrst uvwxyzabcdeghij klmnopqrstu@wxyz. abcdefg”	Email Address will not be accepted	Logical
5a	First name can be a length of 20	Extreme	“Abcdefghijklmnpqrst”	First name will be accepted	Logical
5b	First name cannot be a length of 21	Invalid	“Abcdefghijklmnpqrstu”	First name will not be accepted	Logical
6a	Second name can be a length of 20	Extreme	“Abcdefghijklmnpqrst”	Second name will be accepted	Logical
6b	Second name cannot be a length of 21	Invalid	“Abcdefghijklmnpqrstu”	Second name will not be accepted	Logical

7a	Username can be of length 20	Extreme	"Abcdefghijklmnopqrs1"	Username will be accepted	Logical
7b	Username cannot be of length 21	Invalid	"Abcdefghijklmnopqrst1"	Username will not be accepted	Logical
8a	Password can be of length 20	Extreme	"Abcdefghijklmnopqrs1"	Password will be accepted	Logical
8b	Password cannot be of length 21	Invalid	"Abcdefghijklmnopqrst1"	Password will not be accepted	Logical

Test number	Evidenced test data	Actual outcome	Outcome screenshot	Comments
1a	<p>New Band Registration</p>  <p>The form shows a band name "fghijklmnopqrstuvwxyzabcd" which is longer than 20 characters. Other fields include Branch: Fermanagh, Grade: 2, Address: The Mount, Line 1: 10 Ballymoney Road, Line 2: Crumlin, County: County Antrim, Postcode: BT445GH, Practice Time(s): 7-10pm, and Tartan: McLennan.</p>	As expected	 <p>The application displays a confirmation message "Band account created!" with a small rocket icon.</p>	This test has passed
1b	<p>New Band Registration</p>  <p>The form shows a band name "hijklmnopqrstuvwxyzabcd" which is longer than 20 characters. Other fields are identical to test 1a.</p>	As expected	 <p>An error dialog box appears with the message: "Please ensure the name chosen only contains letters and numbers and is less than 30 characters." with an OK button.</p>	This test has passed

New Band Registration

Band Name: Atholl
 Branch: Down
 Grade: 2
 Address:
 Hall Name: Atholl Hall
 Line 1: ijklmnopqrstuvwxyzabdefg
 Line 2: Atholl
 County: County Fermanagh
 Postcode: BT295GH
 Practice Time(s): 7-10
 Tartan: Atholl

PM First Name: Terry
 PM Second Name: Tully
 Email Address: TTully@gmai.com

Username: TTully123
 Password: GiuEvUdE5N7

Register Band

As expected

New Band Registration

Band account created!

Band Name: Atholl
 Branch: D
 Grade:
 Address:
 Hall Name: Atholl Hall
 Line 1: ijklmnopqrstuvwxyzabdefg
 Line 2: Atholl
 County: County Fermanagh
 Postcode: BT295GH
 Practice Time(s): 7-10
 Tartan: Atholl

Username: TTully123
 Password: GiuEvUdE5N7

OK

This test has passed

2a

New Band Registration

Band Name: Atholl
 Branch: Down
 Grade: 2
 Address:
 Hall Name: Atholl Hall
 Line 1: Imnopqrstuvwxyzabdefgh
 Line 2: Atholl
 County: County Fermanagh
 Postcode: BT295GH
 Practice Time(s): 7-10
 Tartan: Atholl

PM First Name: Terry
 PM Second Name: Tully
 Email Address: TTully@gmai.com

Username: TTully123
 Password: GiuEvUdE5N7

Register Band

As expected

Enter Competitions Book Transport Register Member Transfer Member Edit Member

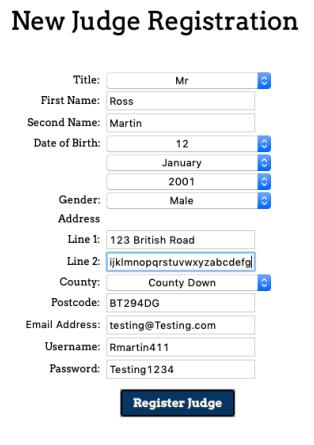
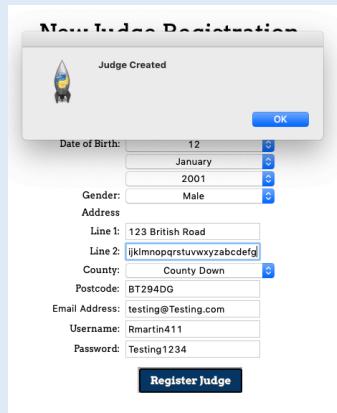
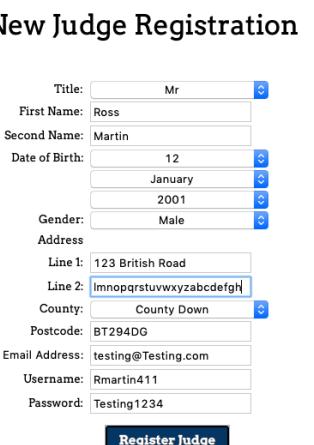
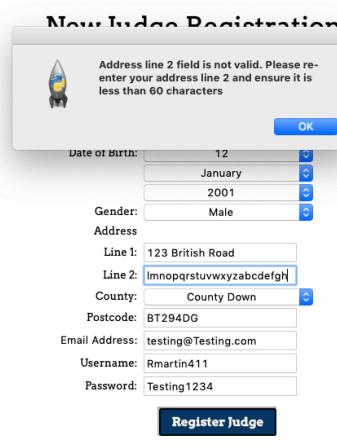
Address line 1 field is not valid. Please include your house number and road and is less than 60 characters.

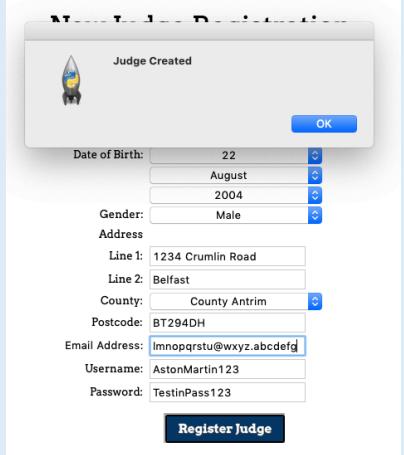
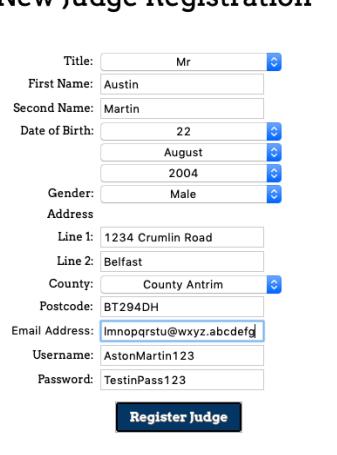
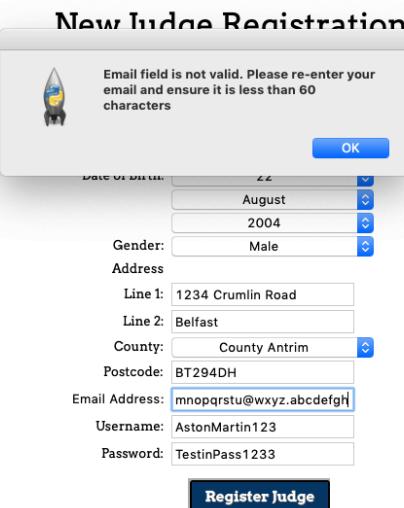
OK

Band Name: Terry
 Branch: Down PM Second Name: Tully
 Grade: 2 Email Address: TTully@gmai.com

This test has passed

2b

		As expected		This test has passed
3a		As expected		This test has passed

	New Judge Registration	As expected		This test has passed
4a				
4b	New Judge Registration	As expected		This test has passed

New Admin Registration

Title: Mr

First Name: Abcdefghijklmnopqrst

Second Name: David

Date of Birth: 15 April 1998

Gender: Male

Address

Line 1: 123 Tossing Road

Line 2: Bangor

County: County Down

Postcode: BT388RJ

Email Address: Testing@testing.com

Username: Testing123

Password: TesstngPass123

Register Admin

As expected

New Admin Registration

Title: Mr

First Name: Abcdefghijklmnopqrst

Second Name: David

Admin Created

OK

Line 2: Bangor

New Admin Registration

Title: Mr

First Name: Abcdefghijklmnoprstu

Second Name: David

Date of Birth: 15 April 1998

Gender: Male

Address

Line 1: 123 Tossing Road

Line 2: Bangor

County: County Down

Postcode: BT388RJ

Email Address: Testing@testing.com

Username: Testing123

Password: TesstngPass123

Register Admin

As expected

New Admin Registration

Title: Mr

First Name: Abcdefghijklmnopqrstu

Second Name: David

First name field is not valid. Please re-enter your first name and ensure it is less than 20 characters

OK

Line 1: 123 Tossing Road

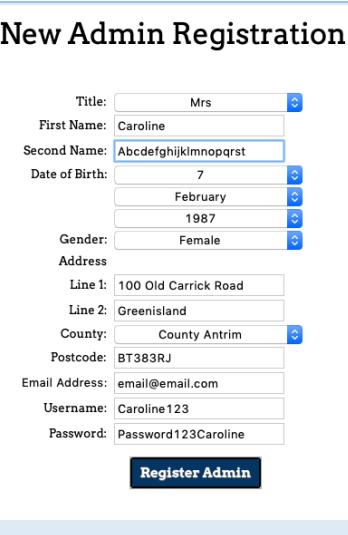
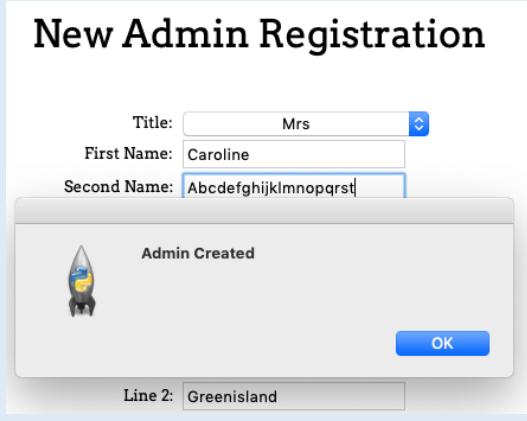
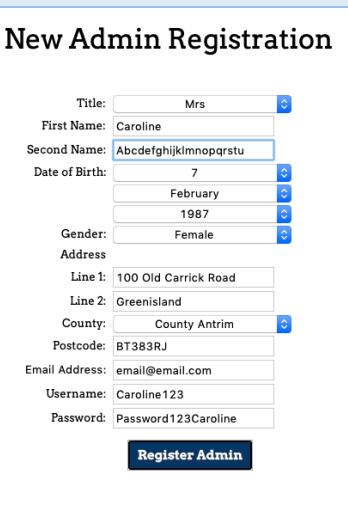
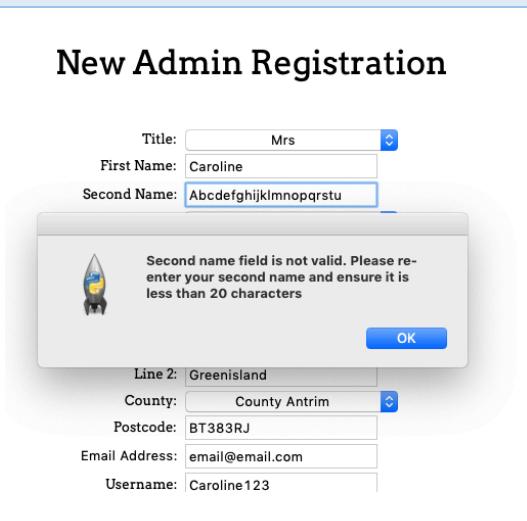
Line 2: Bangor

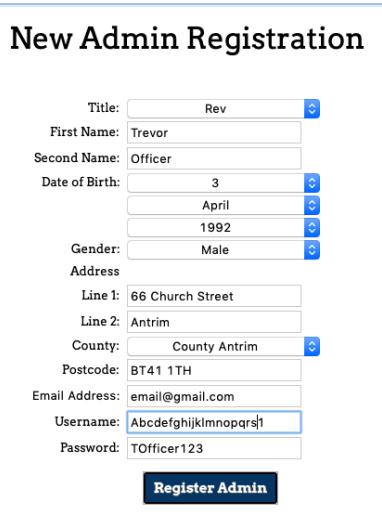
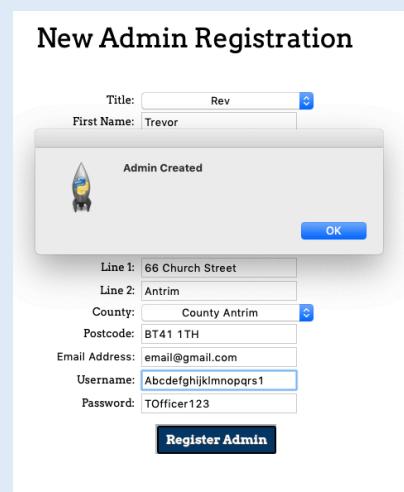
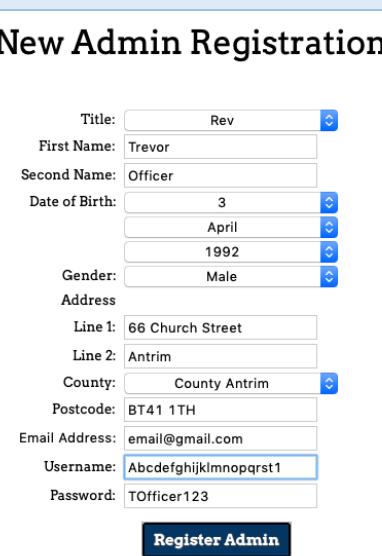
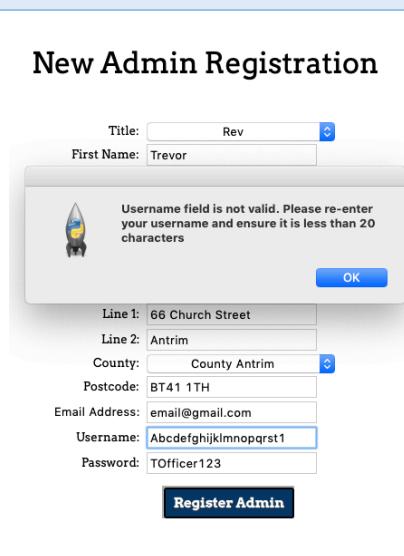
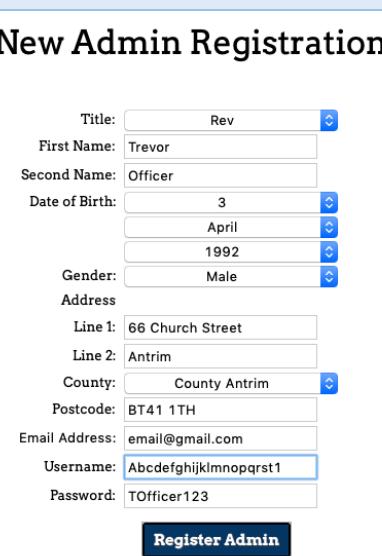
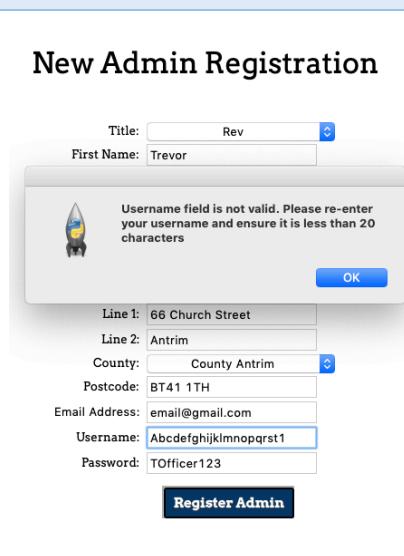
County: County Down

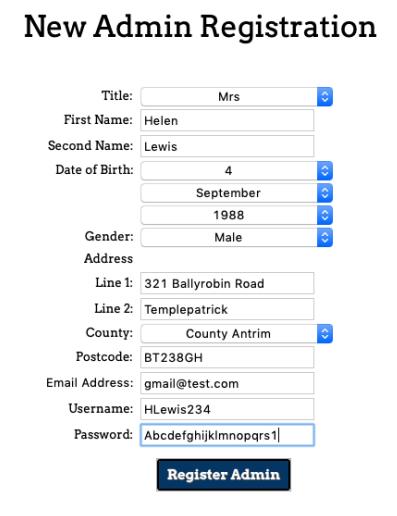
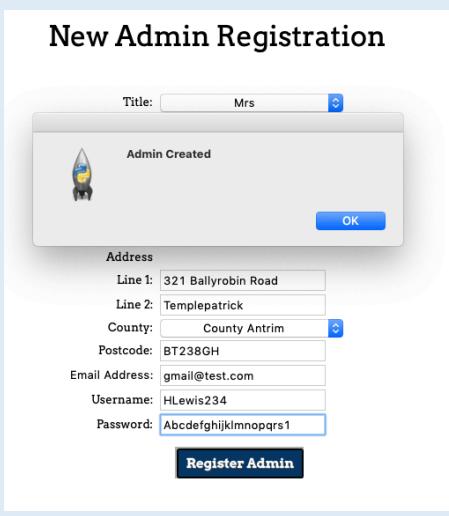
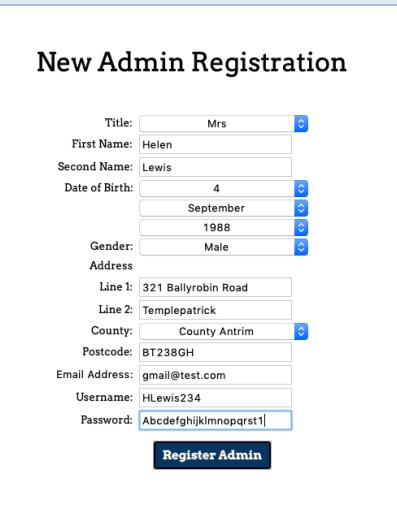
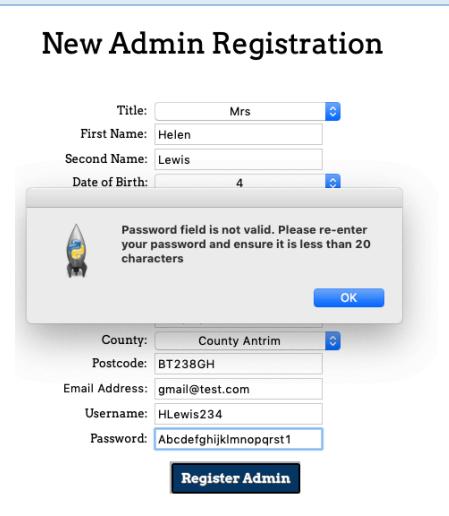
5a

This test has passed

5b

6a	<h3>New Admin Registration</h3>  <p>The screenshot shows a registration form with the following data:</p> <ul style="list-style-type: none"> Title: Mrs First Name: Caroline Second Name: Abcdefghijklmnopqrst Date of Birth: 7 February 1987 Gender: Female Address: <ul style="list-style-type: none"> Line 1: 100 Old Carrick Road Line 2: Greenisland County: County Antrim Postcode: BT383RJ Email Address: email@email.com Username: Caroline123 Password: Password123Caroline <p>Register Admin</p>	As expected	 <p>The screenshot shows a confirmation dialog box with the message "Admin Created" and a rocket icon. Below the dialog, the "Line 2" field contains "Greenisland".</p>	This test has passed
6b	<h3>New Admin Registration</h3>  <p>The screenshot shows a registration form with the following data:</p> <ul style="list-style-type: none"> Title: Mrs First Name: Caroline Second Name: Abcdefghijklmnopqrstuvwxyz Date of Birth: 7 February 1987 Gender: Female Address: <ul style="list-style-type: none"> Line 1: 100 Old Carrick Road Line 2: Greenisland County: County Antrim Postcode: BT383RJ Email Address: email@email.com Username: Caroline123 Password: Password123Caroline <p>Register Admin</p>	As expected	 <p>The screenshot shows an error dialog box with the message "Second name field is not valid. Please re-enter your second name and ensure it is less than 20 characters" and a rocket icon. Below the dialog, the "Line 2" field contains "Greenisland".</p>	This test has passed

	<h3>New Admin Registration</h3> 	As expected	<h3>New Admin Registration</h3> 	This test has passed
7a	<h3>New Admin Registration</h3> 	As expected	<h3>New Admin Registration</h3> 	This test has passed
7b	<h3>New Admin Registration</h3> 	As expected	<h3>New Admin Registration</h3> 	This test has passed

	<p>New Admin Registration</p> 	As expected	<p>New Admin Registration</p> 	This test has passed
8a	<p>New Admin Registration</p> 	As expected.	<p>New Admin Registration</p> 	This test has passed