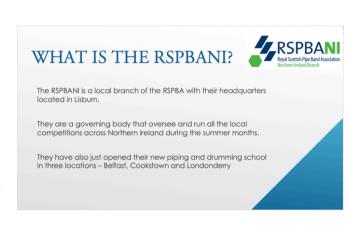
1 Discussion

Describe, to others, the broad aims of the project specifying possible limitations to the solution of the problem.

The Royal Scottish Pipe Band Association Northern Ireland Branch (RSPBANI) is a governing body who organise and deliver all Pipe Band Championships and Drum Major Contests in Northern Ireland. They represent approximately seventy pipe bands in full membership of the association in Northern Ireland and over three thousand individual members. A few of the competitions that they govern are: Champions of Champions (Portrush), All Ireland Championships and Antrim & Newtownabbey Championships.



HOW DOES THE CURRENT SYSTEM WORK?

- They use a paper based system to register new members and transfer members between bands.
- □ To enter competitions, the PM must contact the section secretary, who is running the local competition, either by email or telephone.

 This data is recorded by the section secretary and passed to the admin staff once the entering period has closed.
 - This data is processed by them and then published on their



RSPBANI have seen a large increase in new members registering after the launch of their piping schools in Belfast, Cookstown and Londonderry. They have now realised that the paper-based system they are currently using to register members and transfer individuals within bands creates too much processing for the administration staff within the association.

At the current time they have a website which allows for everyone to access competition dates and a list of bands and Drum Majors who have entered them. They also can publish the results from the competition on their website however there is a delay in this due to the fact that the results need to be manually added to their website after the results and march past have taken place.

HOW DOES THE CURRENT SYSTEM WORK?

- ☐ Competition dates, draw and results for Pipe Bands are published
- Entrance fees must be payed on arrival at the competition by the Pipe Major.
- There are normally two piping judges, 1 drumming judge and an ensemble judge who each rapk the hand compared to its competitor.

The President of the association along with the committee have asked me to develop an electronic application that can be installed onto any device which allows for the registration and transfer of these members electronically in order to drastically reduce the human processing involved. This created the opportunity to also add a feature whereby Pipe bands and Drum

HOW DOES THE CURRENT SYSTEM WORK?

- Judges use a marking sheet to write down their comments and improvements about the bands performance. Once all bands have competed in the grade then the judge must rank each band from first to last.
- After all bands have competed, the judges marks are collated and then published on the website once they have been announced during the finale.

Majors can enter competitions online. Currently the Pipe Major of the band or Drum Major must ring up the administrator in charge of that specific competition to enter. This means that the Pipe Major or competitor at the start of the season must ring a number of individuals to confirm their place in the individual competitions. Pipe Bands should also be able to pay for their competition fees through the application.



RSPBANI see this as a major problem and a hassle for all bands and the implementation of this feature would make this system all-inclusive and the central location to handle all of their processing requirements.

The solution would also allow for judges to enter their results onto the system directly after the bands have competed – this in turn would decrease manual processing at the end of each competition before the finale and results – thus speeding up the time between the competition finishing and the finale beginning.

AIMS OF THE NEW SYSTEM

- Register new member within a band or as a Drum Major
- □ Transfer members between bands.
- The Pipe Major of Bands or Drum Majors will now be able log into the state of the state of
- Option of booking transport
- ludges will be able to log in and add their results after all the bands have preformed in the grade directly into the platform – this gets rid of the paper based part of the system.



The user interface must be user friendly and of a graphical nature. The interface must be intuitive and concurrently allowing the user to effectively use the program.

In the new completely digital solution, the President would also like to include improved existing features:

- ➤ View Results and Judges comments online and give the breakdown of the individual results from each judge and section of the pipe band. The Judges' sheet should also be made available to bands with their comments about the performance.
- ➤ Option of booking transportation This will be done via an independent bus company and an initial email will be sent from RSPBANI and then the rest of the communication will be done between the company and the client.
- View a list of the competitions with dates and locations and who has entered each competition.
- Guest View where you do not need to log into your account but only able to view minimal content i.e. just results, competition dates and registered bands for the specific competitions.
- The ability to print and send the results of each competition to all bands alongside each band individually receiving their own judging comments.

A major concern for any new solution is that of data protection with regards to sensitive information that the system must hold about all individuals. This information is required during the sign-up period but specific details about the individual should only be made available to specific groups of people depending on their role within the association.

1.2 Identify and describe, to others, the possible limitations of a solution to the problem.

Limitations of the new Solution

One of the major limitations of the implementing the new system will be time constraints to complete the project and my programming knowledge.

They payment of the entrance fee for all bands and drum majors will be a limitation of the project as I will not be able implement a payment gateway for credit or debit card transactions. Instead I plan to send an invoice via email at a

later stage, which may not happen in this development due to the strict time frame.

LIMITATIONS OF THE PROJECT

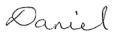
- Accounts will have to be made for administrators and judges as these accounts need to be given special access rights to add and update data on the system
- □ I will not be able to set up the online payment gateway due to the additional annual fee that comes with this.
- □ I will also not be able to implement the text message feature as this will incur

I will not be able to implement my software over the internet as hosting my project as website on the internet or as packaged mobile application due to the additional cost of a domain name and the programming ability to implement my app online so that is has the ability to retrieve updated data respectively.

Another limitation of the project will be sending the PM of the Band a text message as a confirmation for entering a specific competition as this will incur a cost. As this is coursework and I will have a limited time to complete it, I am not sure whether I will be able to implement all functionality, I may decide to leave the solo competitions and drum majors out of the new system and completely focus on the pipe band side of competitions. The other features I have mentioned can be developed in a later build.

1.3 Consider and use feedback from others to refine understanding of the problem and proposed solution.

Figure 1.3.1



RSPBANI Feedback Form			
Do you think there is anything I have included in my proposed solution that I would not be able to implement, if yes please explain?			
une would structe to implement			
As you said in your livertakns, you would strugte to implement text ressages & also online			
features.			
Do you think I should include any more functionality to my program to make is more useable for all stakeholders, if yes			
please explain?			
Maybe allow for e-mail functionality?			
Do you have any other comments, if yes please explain? Very good solution but you may struggle to implement all of the features for all users in this solution time-frame.			

RSPBANI Feedback Form

Do you think there is anything I have included in my proposed solution that I would not be able to implement, if yes please explain? I believe that the online System Could be a difficulty as you stated but als for payments online May be difficult.
Do you think I should include any more functionality to my program to make is more useable for all stakeholders, if yes please explain?
There could be the option for a news feed Section with general updates on
teed section with genue opades on
anything going on with KSPDANL or for
anything going on with KSPBANI or for a way for bands to request new pand players or advertise for new players.
Do you have any other comments, if yes please explain?
Due to the amount of features it
may be difficult to wow for all of
may be difficult to wow for all of these to work the fine
frame.

RSPBANI Feedback Form

Do you think there is anything I have included in my proposed solution that I would not be able to implement, if yes please explain?
> text fairlity - you can enail > wansport booking - outside of indication for requirement, win the process be handled only; do ef the system?
Do you think I should include any more functionality to my program to make is more useable for all stakeholders, if yes please explain? > Search for any member to see their band + vole?
Do you have any other comments, if yes please explain? > wil he judger sheets be electronic for use during a competition or paperbased? -> nembers - how will you like them to a band?

RSPBANI Feedback Form

solution that I would not be able to implement, if yes please
explain?
text massages - cost form a service provider;
email is a free alternative!
Do you think I should include any more functionality to my
program to make is more useable for all stakeholders, if yes
please explain?
No - in tad I bhink you are trying to include
too much fundronality. Registration & entering competitions for
Bell of De series of Suite Sui
Books of Drum majors 13 very Smiler 80 you ould alload
to leave Drum Majors out and toour or additional different
turctionality
Do you have any other comments, if yes please explain?

Feedback Evaluation

I have carefully considered all the feedback from my peers and competent third parties and have included my reasoning to why I have chosen to implement their feedback or not.

Feedback Point	Outcome from feedback & reasoning	Implications of implementing feedback	How will it affect Design and development?
Instead of the texting facility; email can be used as an alternative	Yes, I have chosen to go ahead with this amendment as it should be easier to implement, and it is also a free service	An email account will need to be created to send the emails from on behalf of the association	I will need to ask for email addresses instead of mobile numbers as a method of contact.
Search for any member to see their band or role	I will not be implementing this feature, at least not for the Guest View as this breaks the RSPBANI policy with regards to supply/release of members names to the public.		
A news feed/updates section	I don't think I will go ahead this idea not because I don't like it but because they include that functionality on their Facebook page – whereas they want this system more centralised around bands and competitions.		
Too much similar functionality with regards to PM & DM registration and competition entrance.	I agree this this feedback. I will reduce the functionality by removing Drum Majors and soloists from the new system due to the time frame I have. Although this feature can easily be implemented as it is very similar to the Band processes, I will implement.	Very little implications are the PM & DM registration/entering do not affect each other as they would have run parallel.	This will make the development shorter but will not be removing any functionality as it will be already covered

Other comments from feedback:

Question	Answer
Will the judge's sheets be electronic for use during a competition or paper based?	All the judges will have access to the system on an electronic device where they can comment and grade as they go along to make the process more efficient and easier for all clients.
How will you link members to a band?	To Register a member to a band, the band must be logged into the system. When a member is registered, they will be registered to the band that is logged in and there will be a relationship between every member in the band with the band when the data is stored in the system.