

SE 3XA3: Development Plan
Title of Project

Team 12, DJS
Victor Velenchovsky - velech
Amandeep Panesar - panesas2
Taha Mian - miantm

October 5, 2016

Contents

1	Project Drivers	1
1.1	The Purpose of the Project	1
1.2	The Stakeholders	1
1.2.1	The Client	1
1.2.2	The Customers	2
1.2.3	Other Stakeholders	2
1.3	Mandated Constraints	2
1.4	Naming Conventions and Terminology	2
1.5	Relevant Facts and Assumptions	2
2	Functional Requirements	2
2.1	The Scope of the Work and the Product	3
2.1.1	The Context of the Work	3
2.1.2	Work Partitioning	3
2.1.3	Individual Product Use Cases	3
2.2	Functional Requirements	3
3	Non-functional Requirements	3
3.1	Look and Feel Requirements	3
3.2	Usability and Humanity Requirements	3
3.3	Performance Requirements	3
3.4	Operational and Environmental Requirements	3
3.5	Maintainability and Support Requirements	3
3.6	Security Requirements	3
3.7	Cultural Requirements	4
3.8	Legal Requirements	4
3.9	Health and Safety Requirements	4
4	Project Issues	4
4.1	Open Issues	4
4.2	Off-the-Shelf Solutions	4
4.3	New Problems	5
4.4	Tasks	5
4.5	Migration to the New Product	5
4.6	Risks	5
4.7	Costs	5

4.8	User Documentation and Training	5
4.9	Waiting Room	5
4.10	Ideas for Solutions	5
5	Appendix	6
5.1	Symbolic Parameters	6

List of Tables

1	Revision History	ii
---	----------------------------	----

List of Figures

Table 1: **Revision History**

Date	Version	Notes
Wed. Oct. 5	0.1	Basic Outline
Wed. Oct. 5	0.2	Requirements added

This document describes the requirements for The template for the Software Requirements Specification (SRS) is a subset of the Volere template (Robertson and Robertson, 2012). If you make further modifications to the template, you should explicitly state what modifications were made.

1 Project Drivers

1.1 The Purpose of the Project

The purpose of this project is to make it easier for people that attend social gatherings or events to select a songs and form their own playlist according to the mood or preference of the attendees.

Social gatherings are much more enjoyable when most of the attendee's enjoy the music that is being played. This project was inspired by

1.2 The Stakeholders

Stakeholders will be people who attend these social events or gatherings and people who host them.

Event Attendee's If the system is working properly and attendee's are voting for songs, then the event will be more enjoyable for them.

Event Organizer(s) Having users select music will put less stress on the event organizers, and allow them to focus on other aspects of the event, or let them enjoy themselves.

1.2.1 The Client

The client is the host of the social event or gathering, could also be a DJ who's not willing to put up with people fighting over what song to play next. Could also be the host whose trying to save money not hiring a Dj and just relying on this system that allows the attendees to chose what song they want to play.

1.2.2 The Customers

Amandeeps Dad

1.2.3 Other Stakeholders

Other stakeholders could be music producers or licensors because music that is played should be legally attained for the event, not pirated.

1.3 Mandated Constraints

The first item

The second item

The third etc ...

1.4 Naming Conventions and Terminology

1.5 Relevant Facts and Assumptions

User characteristics should go under assumptions.

2 Functional Requirements

- Allow users to vote on which song to play next at a social gathering
- Users can select to vote for any of a pre-determined set of approximately 10 songs.
- The predetermined set of songs can be selected randomly from a larger pool of songs
- Queue up songs that have been voted on and automatically play them
- Provide a simple web-app for users to vote with. The web-app has a list that shows users what their options to pick from are

2.1 The Scope of the Work and the Product

2.1.1 The Context of the Work

2.1.2 Work Partitioning

2.1.3 Individual Product Use Cases

2.2 Functional Requirements

3 Non-functional Requirements

3.1 Look and Feel Requirements

- Visually pleasing web app interface -

3.2 Usability and Humanity Requirements

- Straight-forward web app (new users should be able to adopt it easily)
- No sign up required
- Automatically connects to server via WiFi with little to no input from user

3.3 Performance Requirements

- Songs should play one after another with small or no delay in between
- Server should have high uptime

3.4 Operational and Environmental Requirements

3.5 Maintainability and Support Requirements

3.6 Security Requirements

- A user should only be allowed to vote once per '*round*' of votes
- Restarting the app/WiFi/phone should not change the fact that a user can only vote once per '*round*'

3.7 Cultural Requirements

3.8 Legal Requirements

- Music that is played should have legal rights to be played publically

3.9 Health and Safety Requirements

This section is not in the original Volere template, but health and safety are issues that should be considered for every engineering project.

4 Project Issues

4.1 Open Issues

- How exactly do we make sure that a user can only vote once per song, without requiring people to sign up for an account

4.2 Off-the-Shelf Solutions

The project that we are modelling (PlayMyWay) already does most of what our project will do.

As for other solutions, there are various libraries that we will use in our development. These libraries will help with various functionality, and include (but are not limited to):

- Express.JS (Server framework for Node.JS)
- Angular.JS (Front-end framework for the web app)
- nodeunit (Unit testing package)
- Mocha (general testing package)

4.3 New Problems

4.4 Tasks

4.5 Migration to the New Product

4.6 Risks

- Bugs or catastrophic errors in the server could cause the music to start playing.

4.7 Costs

4.8 User Documentation and Training

4.9 Waiting Room

4.10 Ideas for Solutions

References

James Robertson and Suzanne Robertson. *Volere Requirements Specification Template*. Atlantic Systems Guild Limited, 16 edition, 2012.

5 Appendix

This section has been added to the Volere template. This is where you can place additional information.

5.1 Symbolic Parameters

The definition of the requirements will likely call for `SYMBOLIC_CONSTANTS`. Their values are defined in this section for easy maintenance.