

1.5 Documenting Requirements

1.5.1 Requirements Definition

Requirements Definition

After listing all of the requirements extracted from interviews, role plays, and questionnaires, requirements have been categorized as functional or non-functional as listed below.

1.5.1.1 Functional Requirements

- The website must include a *Message Board*.
- The website must contain an *Authentication System*.
- The website must contain a *Shopping Cart*.
- The website must contain a *Frequently Asked Questions* section.
- The website must contain a *Contact Page*.
- The website must contain a *History Page* for each genre of music.
- The website must contain an electronic *Registration Form*.
- The website must contain a *Printable Order Form*.
- The website must provide *Written Explanation of Moves* along with *Still Frames*.
- The website must contain a *Team Bios* section.
- The website must provide *Dance-related Links*.
- The website must contain a *Site Map*.
- The website must be created using *ASP* for website security.
- The website must contain an *Email Validation System*.
- The website *Administrator* must be able to *filter messages* from the Message Board.
- Only *Major Credit Card Companies* will be accepted (MasterCard, Visa, American express) for purchasing the DVD.
- Only a *Registered Member* can purchase using a valid debit/credit card.
- New customers are *required to register* by creating a new account.
- During the registration process users are required to enter their: *name, user ID, password (2 times) and email address*.
- The website must provide *Notification of Incomplete Registration*.
- Non-registered users will only be able to view *Sample Videos*, the *Contact Page*, and the *Team Bios*.
- The user's first and last name must have a *maximum length* of 20 alphanumeric characters.

- The *User ID* and *Password* must both be alphanumeric characters and 12 characters long.
- The user's *E-mail address* must be alphanumeric with a *maximum length of 30 characters*.
- No two *users with the same user name* can log into the registered area of the website.
- Only *registered users* can download videos, purchase the DVD, and access additional resources.
- Registered users can fill out a *printable order form*.

1.5.1.2 Non-Functional

- The website must provide *Clear Video Images*.
- Both *footwork and hand-positioning* have to be emphasized within each video.
- The *videos* provided on the website must be *easy to use*.
- The developers must be able to reduce *download time for the videos*.
- *HTML, Javascript, Flash, and XML* must be used to reduce download time (of web page).
- The developers must be able to reduce download time of page by avoiding *excessive use of pictures* (graphics).
- The website must contain a *good organizational layout* as well as *good navigation*.
- The *ASP host* that is used for the development of the website must be *fast and reliable*.
- The website must incorporate a *fresh look* utilizing pictures, colors, and up-to-date music.
- The website's teaching approach must *accommodate different learning styles*.
- The website *must accommodate various forms of payment*.
- The moves provided on the site must be broken down into respective *levels of expertise* (e.g. Beginners, Intermediate, Advanced).
- The website must contain *highlights of upcoming events and updates* of the website.
- The developers must incorporate a *naming convention for file names*.

1.5.2 Requirements Specifications

1.5.2.1 Functional Requirements

1- System Content Requirements: These requirements outline the necessary components of the system.

- Must contain videos – A main function of the site is to provide dance instruction through vectorized downloadable videos.
- Written explanation of moves along with pictures – In order to efficiently teach dance over the web, users need still frames of the moves on the video accompanied by written descriptions of the moves.
- Must contain Registration Form – A registration form on the website is needed in order for a user to become sign up for membership. This electronic form requires the user to enter the appropriate information needed for membership.
- Must contain a Frequently Asked Questions section – To better aid users with any questions or concerns they may encounter while using SalaPartyWalk.com, a FAQ section needs to be incorporated. This section provides questions other users had in the past along with the respective answers
- Must contain a Contact Page - A contact page is needed so that users are able to reach the website administrator if any questions, comments, or concerns need to be addressed.
- Must contain a History Page - A history page will allow members to read background information on a particular genre of music, before even learning how it is danced. The history page provides a brief explanation of the dance's origin and development.
- Must contain a shopping cart – A shopping cart will enable a user to select the item(s) they wish to purchase (in this case a DVD) and store it until they are ready to check-out or proceed with the final purchasing.
- Must contain an Electronic Order Form – If a member would like to purchase the SalsaPartyWalk.com DVD, he/she needs to fill out a form providing required information for payment processing.
- Must contain a Printable Order Form – If a member would like to mail in a hard copy of the order form along with a cash or money order payment, they can do so with this form

- Must contain a team Bios section – This section is required because it is where the people responsible for creating the website get an opportunity to introduce themselves to their customers. A brief biography on each person allows users to meet the crew.
- Must include Dance-related Links – Additional resources for users are a requirement. This allows them to expand their experience by learning more about the music and the dancing with the aid of other websites.
- Must contain a Message Board – The message board will allow users to interact with not only each other but also with the dancers.
- Must contain a Site Map -

2- Registration Requirements: These requirements outline the registration requirements from both a user and system standpoint.

- In order to access any of the member sections of the web page a user must register for membership.
 - Membership includes access to videos, written move descriptions, history section, dance-related links, and “Purchase DVD” section.
- No two users with the same user name can log into the registered area.
- During the registration process users must provide their name, user ID, password (twice), and email address
- User must be notified if registration is not completed properly.
- User last and first name must not exceed a length of 20 characters in addition to being alphanumeric.
- The User ID and Password must also be alphanumeric and 12 characters in length.
- Email address should be alphanumeric and have a max length of 30 characters.

3- Purchasing the DVD: These requirements outline the process for purchasing the DVD.

- Only a registered member can access this area to purchase a DVD.
- Registered members must fill out an online order form in order to purchase the DVD online.

- Registered members must provide valid credit or debit card information in the fields provided when using the online order form.
- Only major credit card companies will be accepted if purchasing the DVD online (MasterCard, Visa, American express).
- Registered members also have the option of mailing in a printable order form if they do not wish to purchase over the web.
- Registered members can mail in a cash or money order payment.

4- Access Rights: These requirements outline what actions a given user can perform depending on their membership status.

- Non-registered users will only be able to view sample videos, the “Contact Us” page, and the “Team Bios” sections.
- Only registered members can download videos under “Dances”, purchase the DVD, and access the additional resources (links) on the website in addition to all other areas of the website.

5- Website Security: These requirements outline the security standpoint of the website.

- The website must contain an authentication system so that duplicate emails or names are not permitted. This ensures that user information is kept safe.
- Using ASP coding will be a requirement so that the website security is maintained.
- An Email Validation System will be used to assure that proper emails are being used. This will avoid any future conflicts if users need to be reached for any reason.

1.5.2.2 Non-functional Requirements

1- Ease of use:

The system should be easy to use, the user should be able to load up the web page and basically know how to work the system from just viewing it. There should be no vagueness of the inner workings of the system. The navigation of the system should be very clean and straightforward.

2- Speed:

(Speed of Web page): The speed of the system should be high regardless of the end user connection. This means that the system will use HTML, Javascript, XML, and Flash to reduce the download time of the web page. Also reducing the amount of graphics can significantly alter the time the page takes to load. All of these features will ensure the system runs reasonably fast even on a dial up connection.

(Speed of videos): The videos on the website should not take too long to download because this can be very frustrating for the user. The videos will be optimized for the common connection (56k modem); vectorizing each individual video clip will do this. In addition to download time, the rate at which the video runs should be accurate considering dance counts and steps need to be synchronized.

3-Video Clarity:

In order for instruction to be efficient, the videos need to be clear enough for members to see each and every step being carried out by the dancers. This also entails having certain details enhanced in the video clips such as the hand positions and footwork.

4- Styles of learning;

Since different people have different learning curves, instruction should be able to accommodate these styles. The lessons should be decomposed into “Beginners”, “Intermediate”, and “Advanced” so users can choose where they want to begin and know exactly what moves they should be learning next.

5-Fresh Look;

Apart from looking attractive enough for the users to enjoy, the website should incorporate up-to-date music that would be appealing to the common user. In addition it should be able to use attractive pictures and colors to draw the user’s attention and keep them interested in the website.

6- Reliability:

The system should have a high reliability rate. This will consist of the system not crashing or behaving in an unwanted matter. The system will take this on by having a well-coded foundation and use high quality hardware. In addition a reliable ASP hosting system will be required.

7- Maintenance:

The system should be kept running and be well kept .A highly trained and trusted administrator will maintain the system. The administrator should be able to filter unwanted messages from the website's message board. The system should also be able to provide basic functionalities during the maintenance periods.

8- Update-ability/Modification:

The system needs to be easy to change and modify. The system should have the capability to grow. One of the requirements that will help satisfy this goal is using a consistent naming convention for all video files.

9-Payment methods:

To better accommodate user needs, the website should be able to provide more than one payment method. The payment type should not be restricted to credit card only as this may discourage the user from purchasing the SalaPartyWalk.com DVD.

10-Highlights:

The highlights feature of the website should provide users with the most recent news and events that are going on in the dance world as well as on the website itself.