
Software Requirements Specification

for

<Project>

Version 1.0 approved

Prepared by <author>

<organization>

<date created>

Table of Contents

Table of Contents.....	ii
Revision History.....	ii
1. Introduction.....	1
1.1 Purpose.....	1
1.2 Document Conventions.....	1
1.3 Intended Audience and Reading Suggestions.....	1
1.4 Product Scope.....	1
1.5 References.....	1
2. Overall Description.....	2
2.1 Product Perspective.....	2
2.2 Product Functions.....	2
2.3 User Classes and Characteristics.....	2
2.4 Operating Environment.....	2
2.5 Design and Implementation Constraints.....	2
2.6 User Documentation.....	2
2.7 Assumptions and Dependencies.....	3
3. External Interface Requirements.....	3
3.1 User Interfaces.....	3
3.2 Hardware Interfaces.....	3
3.3 Software Interfaces.....	3
3.4 Communications Interfaces.....	3
4. System Features.....	4
4.1 System Feature 1.....	4
4.2 System Feature 2 (and so on).....	4
5. Other Nonfunctional Requirements.....	4
5.1 Performance Requirements.....	4
5.2 Safety Requirements.....	5
5.3 Security Requirements.....	5
5.4 Software Quality Attributes.....	5
5.5 Business Rules.....	5

Revision History

Name	Date	Reason For Changes	Version
Ankit Pahuja	12/09/17	Modified/Enhanced	V - 1.1
Ayush Dosajh	19/09/17	Modified/Enhanced	V – 1.2

1. Introduction

1.1 Purpose

The product whose software requirements are specified in this document is a website. This is the first version of the document. The aim of this project to give the client a website that is required by them for the Tedx event that is being hosted in NIIT University named TedxNIITUNIVERSITY. The theme for this project will be custom-ed and be made on WordPress for non-developers to make changes to and be user-friendly.

1.2 Document Conventions

Main Section Titles

Font: Times New Roman Face: Bold Size: 18

Sub Section Titles

Font: Times New Roman Face: Bold Size: 14

Standard Text

Font: Arial Face: Italic Size: 14

1.3 Intended Audience and Reading Suggestions

Clients: The users of the system will get an idea of the WebApp and how it should be used to maximize its performance. Moreover, client will be benefited since they will know beforehand about the features the site has and could give feedback during the development phase and it will also provide easy maintainability once its live. The idea is to keep the client in the loop in order to produce a user friendly product.

Developers: Project developers have a framework to base their projects on and will get to know the requirements and other such things for building a similar project.

Clients should first go through user interface and after that this document can be read in any order.

Developers can go through any order depending on their requirements.

1.4 Product Scope

The website will help the users in obtaining information about the event that is going to be held in the university premises. The users will vary from students, teachers to business professionals. Live web-cast will be available to the users. The users can also register and buy the tickets for the event on the website linked through a payment gateway. The helpline number as well as a

feedback form would be available to the users. The organizers require the website to publicize the event as well as to provide details. The theme for this project will be **custom-ed** and be made on WordPress for non-developers to make changes to. The main objective of the product is its maintainability and easy to understand functionalities which make the product user-friendly.

We aim to make use of Waterfall model i.e. we jot down everything that is required in advance and as per our estimation we will not have to iterate different jobs in terms of Analysis, Design, Coding, Testing in a loop.

<Provide a short description of the software being specified and its purpose, including relevant benefits, objectives, and goals. Relate the software to corporate goals or business strategies. If a separate vision and scope document is available, refer to it rather than duplicating its contents here.>

1.5 References

<https://tedx.stanford.edu/>

<https://tedxsydney.com/>

Official Guidelines:

<https://www.ted.com/participate/organize-a-local-tedx-event/tedx-organizer-guide/branding-promotions/your-event-website>

We have tried to make use of the above sites to make a benchmark and to build our product better. Please note that no content has been copied from their product either in the form of code or whatever content is there on their website.

2. Overall Description

2.1 Product Perspective

This product is not a member of the collection of Tedx websites. This product will help the client in distributing information regarding the mentioned event and we basically aim to spread awareness about the event and generate sales of 2.0 Lakh INR from this project through ticket sales.

<Describe the context and origin of the product being specified in this SRS. For example, state whether this product is a follow-on member of a product family, a replacement for certain existing systems, or a new, self-contained product. If the SRS defines a component of a larger system, relate the requirements of the larger system to the functionality of this software and identify interfaces between the two. A simple diagram that shows the major components of the overall system, subsystem interconnections, and external interfaces can be helpful.>

2.2 Product Functions

->Site Administrator Login / CMS : WordPress

->Registration for Guests and Students

->Previous Tedx Talks / Global talks

- >Portal to buy tickets / Payment Gateway
- >Sponsors list/infographic
- >Newsletter Subscriptions
- >Contact Information
- >Directions to reach the venue – Virtual tour
- >Social Media Links / Social Handles – FB, Twitter, Instagram
- >Blog build and Maintenance
- >About the theme and the event
- >To show the List of speakers and their bio
- >To show the details of current and upcoming events
- >24*7 Chat Option | Reply within 24 hours
- >Online Donation (as is non-profit organization)
- >Core Team Description

2.3 User Classes and Characteristics

This product aims to showcase relevant information regarding the event and all the people are potential users who are in a way willing to attend this Tedx event.

2.4 Operating Environment

A user might not have to require an extra-ordinary machine to access this product. Since, this a web-based product, you simply need to have a browser (any would work – latest version). To have better experience – suggested hardware requirements would be: Screen size: 15 inches. Flash is to be turned on to let either flash applications to run. Running internet connection is mandatory.

2.5 Design and Implementation Constraints

- *Speed of the site.*
- *Security – protecting ourselves from DOS & DDOS attacks.*
- *Server security.*

2.6 User Documentation

The client can go through the referenced websites to obtain an understanding of the product before the delivery of the product. A demonstration will be provided by us while delivering the product to the client for full understanding. Also, a PSD file will be supplied before an actual/live website.

2.7 Assumptions and Dependencies

- Full working and information retrieval is dependent on the availability of internet connection.
- Further information and communication can only be done via tedxniituniversity.com

3. External Interface Requirements

3.1 User Interfaces

After the development of the product, the screen shots will be pasted here.

3.2 Hardware Interfaces

All the hardware's on which a Web Browser can be installed can act as an interface for the product and the user. The Hardware can be mobile, laptop, pc and tablet.

3.3 Software Interfaces

- *Different software we will make use of, while building this product are:*
 - o *HTML*
 - o *CSS*
 - o *Javascript*
 - o *PHP*
 - o *MYSQL*

3.4 Communications Interfaces

- *TCP/IP*
- *HTTP*

4. System Features

We describe the functional requirements by giving various use cases.

Use case related to maintenance:

Use Case 1: Admin login

Primary Actor: Administrator

Pre Condition: Internet connection available.

Main Scenario:

- 1. Admin initiates CMS / WordPress maintenance template provided.*
- 2. The changes could be easily implemented using easy to use user friendly features and interacting with WordPress tools*
- 3. Changes/updates are made live ASAP if needed.*

Alternate Scenario:

4(a). Authorization fails

4(a)1. Prompt the Admin that he typed the wrong password

4(a)2. Allow him to re-enter the password. Give him 3 chances.

Use cases related to Registration:

Use Case 2: Registration / login

Primary Actor: User

Pre Condition: Nil

Main Scenario:

- 1. Start the website. Click on Register guest. User asked for his/her details.*
- 2. User creates the login and password.*
- 3. User logs in.*
- 4. Profile displayed.*

Alternate Scenario:

- 4(a). Registration fails.*
- 4(a)1. Prompt the user that he typed incompatible details.*
- 4(a)2. Allow user to register again or fill the missing details.*

Use Case 3: Buy tickets

Primary Actor: User

Pre Condition: User logged in

Main Scenario:

- 1. User initiates buy ticket action.*
- 2. User is given the details about the event and amount to be paid . User is then asked for confirmation to pay.*
- 3. User is the redirected to the dedicated gateway. To select payment action and provide further details.*
- 4. System does payment verification.*
- 5. A receipt/ Ticket is generated.*

Alternate Scenario:

- 6(a). Payment not confirmed the redirect to main page.*
- 6(b). Payment failed .*
- 6(b)1. Refund for the payment should be initiated.*

Use cases related to Information/ Event promotion:

Use Case 4: previous ted talks

Primary Actor: User

Pre Condition:nil

Main Scenario:

- 1. User could watch the previous ted talks for reference.*
- 2. User clicks on the video then, A video player is used to play the video.*

Alternate Scenario:

- 3(a). Video doesnt work due to connection or broken link.*
- 3(a)1. Page reload or if broken link the link updated.*

Use Case 5: Sponsor list.

Primary Actor: User

Pre-Condition: Nil.

Main Scenario:

- 1. Sponser list is featured on the website.*
- 2. Main motive is to generate revenue for the via sponsor adverts of kind.*
- 3. Redirect to the sponsor site if clicked.*

Use Case 6: News letter Subs.

Primary Actor: User

Pre-Condition: Nil.

Main Scenario:

- 1. User enters details and clicks on subscribe in the subscription column*
- 2. Updates about the event are send to the users inbox.*

3. The portfolio is deleted.

Alternate Scenario:

4(a). User opts out for subs .

4(a)1. User is unsubscribed.

Use Case 7: Contact information.

Primary Actor: User

Pre-Condition: nil.

Main Scenario:

1. Contact info is listed in the contact section of the website.

2. User could contact using the details provided.

Use Case 8: Directions to reach the venue.

Primary Actor: User

Pre-Condition: User logged in.

Main Scenario:

1. User is give a visual tour on how to reach the university.

2. Separate details are also provided.

Alternate Scenario:

3(a). Video doesnt work due to connection or broken link.

3(a)1. Page reload or if broken link the link updated.

Use Case 9: Social media links/ Social handles

Primary Actor: User

Pre-Condition:Nil.

Main Scenario:

1. User clicks on the link.

2. Redirected to social media pages.

Alternate Scenario

3(a). Redirection to social media pages failed.

3(a)1. Wait for them to load.

Use Case 10: Blog build and maintainence.

Primary Actor: Admin.

Pre-Condition: Admin logged in.

Main Scenario:

1. Admin updated / maintains the blog.

2. Blog is used as the information hub for the event.

Alternate Scenario:

3(a). Authorization fails

3(a)1. Prompt the Admin that he typed the wrong password

3(a)2. Allow him to re-enter the password. Give him 3 chances.

Use Case 11: About.

Primary Actor: User.

Pre-Condition: Nil.

Main Scenario:

1. Information about event and site are displayed.

2. Copyrights licenses etc are mentioned

3. Ownerships etc are declared.

Use Case 12: List of speakers and their bio.

Primary Actor: User.

Pre-Condition: Nil.

Main Scenario:

- 1. List of speakers is provided on the website.*
- 2. User clicks on the speaker to display the speakers bio.*

Use Case 13: Show current and upcoming events.

Primary Actor: User.

Pre-Condition: Nil.

Main Scenario:

- 1. A notification is issued on the website with the details of the event.*
- 2. Subs, Registered users are informed of the event.*

*Use Case 14: 24*7 Chat*

Primary Actor: User

Pre-Condition: User logged in.

Main Scenario:

- 1. User selects the Chat option.*
- 2. User submits a query.*
- 3. Proper answer is issued in response to the query within 24 hrs.*

Use Case 15: Online Donation(As it is a non-profit initiative)

Primary Actor: User

Pre-Condition: Nil

Main Scenario:

- 1. User selects the Donate button.*
- 2. User directed to donation page, asked to enter the amount and confirmation.*
- 3. Redirected to payment gateway.*

Alternate Scenario:

- 6(a). Payment not confirmed the redirect to main page.*

<This template illustrates organizing the functional requirements for the product by system features, the major services provided by the product. You may prefer to organize this section by use case, mode of operation, user class, object class, functional hierarchy, or combinations of these, whatever makes the most logical sense for your product.>

5. Other Nonfunctional Requirements

5.1 Performance Requirements

- Should run on 500 MHz, 64 MB machine which is minimum required to run a web browser.
- Loading speed should be less than 3 seconds.

<If there are performance requirements for the product under various circumstances, state them here and explain their rationale, to help the developers understand the intent and make suitable design choices. Specify the timing relationships for real time systems. Make such requirements as specific as possible. You may need to state performance requirements for individual functional requirements or features.>

5.2 Safety Requirements

Web safety models to be followed .

<Specify those requirements that are concerned with possible loss, damage, or harm that could result from the use of the product. Define any safeguards or actions that must be taken, as well as actions that must be prevented. Refer to any external policies or regulations that state safety issues that affect the product's design or use. Define any safety certifications that must be satisfied.>

5.3 Security Requirements

<Specify any requirements regarding security or privacy issues surrounding use of the product or protection of the data used or created by the product. Define any user identity authentication requirements. Refer to any external policies or regulations containing security issues that affect the product. Define any security or privacy certifications that must be satisfied.>

5.4 Software Quality Attributes

<Specify any additional quality characteristics for the product that will be important to either the customers or the developers. Some to consider are: adaptability, availability, correctness, flexibility, interoperability, maintainability, portability, reliability, reusability, robustness, testability, and usability. Write these to be specific, quantitative, and verifiable when possible. At the least, clarify the relative preferences for various attributes, such as ease of use over ease of learning.>

5.5 Business Rules

<List any operating principles about the product, such as which individuals or roles can perform which functions under specific circumstances. These are not functional requirements in themselves, but they may imply certain functional requirements to enforce the rules.>