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***If it’s not here it’s not happening.***

***Traceability Matrix v1.0***

# **Team 8**

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| Traceability Matrix | 23 February,  2015 | 1.0 | Archit, Krupal, Rachit | Soham |

## DOCUMENT DESCRIPTION

This matrix is a format for tracking requirements. It aims to provide a convenient format that helps to visually represent associations between user requirements for the system built and the work products developed and implemented to verify those requirements. Traceability is used to help ensure solution conformance to requirements and to assist in scope and change management, risk management, time management, cost management, and communication management. It is also used to detect missing functionality or to identify if implemented functionality is not supported by a specific requirement.

## DEFINITION

A traceability matrix is a document, usually in the form of a table, that correlates any two base lined documents that require a many to many relationship to determine the completeness of the relationship. It is often used with high-level requirements (these often consist of marketing requirements) and detailed requirements of the software product to the matching parts of high-level design, detailed design, test plan, and test cases.

The following are the various ways in which a traceability matrix can be developed,

1. It can be created by associating requirements with the work products that satisfy them.

1. It can be established by user requirements against the system requirements.

1. Plotting the functional requirements against the various phases and work products.

The components required for developing a traceability matrix are,

1. Unique identifiers for all the requirements.

1. User entities of the system.

1. Dependencies between the requirements and user entities.

## USER ENTITIES

|  |  |
| --- | --- |
| **UNIQUE IDENTIFIER** | **USER ENTITY** |
| **U1** | Admin |
| **U2** | Organizer |
| **U3** | Sub organizer |
| **U4** | Volunteers |
| **U5** | Participants |
| **U6** | Guest |

## FUNCTIONAL REQUIREMENTS

|  |  |
| --- | --- |
| **UNIQUE IDENTIFIER** | **FUNCTIONAL REQUIREMENT** |
| **R1** | Login |
| **R2** | Logout |
| **R3** | Forgot password |
| **R4** | Change password |
| **R5** | Sign up |
| **R6** | Invalid password |
| **R7** | Error handling |
| **R8** | Verification detail |
| **R9** | View profile |
| **R10** | My organizer profile |

|  |  |
| --- | --- |
| **R11** | My sub organizer profile |
| **R12** | My participant profile |
| **R13** | View budget |
| **R14** | Contest tracking |
| **R15** | Update profile/ add profile |
| **R16** | Un-enrolling from the event |
| **R17** | Route to the venue |
| **R18** | Contest result |
| **R19** | Contest daily update |
| **R20** | Email notification to users about event updates |
| **R21** | Contact the organizer |
| **R22** | My committee |
| **R23** | Achievements |
| **R24** | Promote contest |
| **R25** | Update profile |
| **R26** | View Calendar |
| **R27** | Update budget and expenses |
| **R28** | Be a volunteer |
| **R29** | Be a sub organizer |
| **R30** | Add to my calendar |
| **R31** | Update schedule of the event |
| **R32** | Find event by category |
| **R33** | Search events by location |
| **R34** | Change the notification settings |
| **R35** | Get email notifications according to interests |
| **R36** | Chat with my committee |
| **R37** | Create contest(organizer,sub-organizer) |
| **R38** | Send updates about the events(organizer) |
| **R39** | Viewing participants list |
| **R40** | Manage event |
| **R41** | Cancelling the event |

**SOURCE TRACEABILITY MATRIX**

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **U1** |  | **U2** |  | **U3** |  | **U4** |  | **U5** | **U6** |
| **R1** | · |  | · |  | · |  | · |  | · |  |  |
| **R2** | · |  | · |  | · |  | · |  | · |  |  |
| **R3** | · |  | · |  | · |  | · |  | · |  |  |
|  | · |  | · |  | · |  | · |  | · |  |  |
| **R4** |
|  |  |  |  |  |  |  |  |  |  |  |  |
| **R5** | · |  | · |  | · |  | · |  | · |  |  |
|  | · |  | · |  | · |  | · |  | · |  |  |
| **R6** |
| **R7** | · |  | · |  | · |  | · |  | · |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **R8** | · | · | · | · | · |  |
|  |  |  |  |  |  |  |
| **R9** | · | · | · | · | · |  |
|  |  | · |  |  |  |  |
| **R10** |
| **R11** |  |  | · |  |  |  |
| **R12** |  |  |  | · |  |  |
| **R13** |  | · | · |  |  |  |
|  | · | · | · | · | · | · |
| **R14** |
|  |  |  |  |  |  |  |
| **R15** | · | · | · | · | · |  |
|  |  |  |  |  | . |  |
| **R16** |
| **R17** | · | · | · | · | · | · |
| **R18** | · | · | · | · | · | · |
| **R19** | · | · | · | · | · | · |
|  |  |  |  | · | · |  |
| **R20** |
|  |  |  |  |  |  |  |
| **R21** | · | · | · | · | · |  |
|  |  | · | · | · |  |  |
| **R22** |
| **R23** | · | · | · |  | · |  |
| **R24** |  | · | · | · |  |  |
| **R25** | · | · | · | · | · |  |
|  | · | · | · | · | · | · |
| **R26** |
|  |  |  |  |  |  |  |
| **R27** |  | · | · |  |  |  |
|  |  |  |  | · |  |  |
| **R28** |
| **R29** |  |  |  | · |  |  |
|  |  | · | · |  |  |  |
| **R30** |
|  |  |  |  |  |  |  |
| **R31** |  | · | · |  |  |  |
| **R32** | · | · | · | · | · | · |
| **R33** | · | · | · | · | · | · |
| **R34** | · | · | · | · | · |  |
|  |  |  |  |  |  |  |
| **R35** | · | · | · | · | · |  |
|  |  | · | · | · |  |  |
| **R36** |
|  |  |  |  |  |  |  |
| **R37** |  | · | · |  |  |  |
| **R38** |  | · | · | · |  |  |
| **R39** |  | · | · | · |  |  |
| **R40** |  | · | · |  |  |  |
| **R41** |  | . |  |  |  |  |