Name-Anaket Kumar Regestration no. - 12108348 Roll no. - RD2112881 Page 1 of 9 8 Ma-1

Q1. Design a SRS (Software Reausrement Spelification)
Document for a Problem area of your choice by using
1EEE-830 Standard template.

=

Utsav- a stoofs management system

Software Redukrements Specification

version 1.0

Aniket Kumers Software Developes

1. Introduction

9t is an event management system for the stoots competition of the university.

Purpose

To Provide an orline Platform to Store all the records of the stoots events, all the upcoming events and other announcements related to the events.

Scope

This Project is terrgeted to the Students that are interested in sports or are Participating in sports.

Ovorview

The Software well Contain the modules for uscoming and Past events, records, registration and feedback.

2. Inemeral Description

References

[1] Mastering Dango - Nitel Crearge

[2] HTML & CSS - John Duckett

[3] Dango Dolumentation (version 3.2)

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2 honoral Description

Product <u>Perspective</u>
This Product is for the Students who Play Storts, sports
Officials, where they can view or manage registration
of events, Schedules, records.

· Boduct functions

- · Schedule of events
- · Registration of events
- · Rewords Section
- · feedback to the events.

Ver charactersfes

- VSers will register themselves and can see their records.

3. Specifiz Requirements

External interface reausements

User Interfaces

- · Login/Signul Page
- · Events display Page
- · Records desplay Page
- · feedback form

Hardware Interfaces

- · Oferating System Linux, windows, Android
- · RAM 2 hB or higher
- · CPV dual core or higher

Software Interfaces

- · Perating System (windows, Linux, mac 05)
- · web brooser

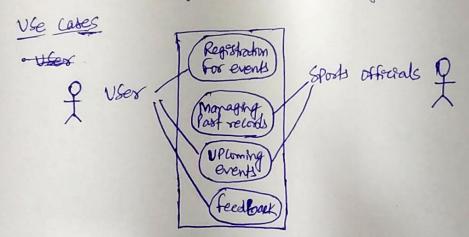
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communication interfaces · Internet (WAN or LAN)

functional heavisements. Registration for events - user can register for any event.

- · managing Past Relords - user can new, felter and analyze fast records.
 - · Displaying of upcoming events - user can view the upcoming events.
 - · feedback of the events - Users can give feedback for any event.



Non-functional Keausnements

Performance - The Performance of the Broduct should be like that the wer don't face any Broblem in accessing that.

Reliability - Product Should be reliable and data should be

Available the Product should be available when it is needed.

Seturity- The froduct should be secured and unauthorized alless should not be there.

maintaintifity- froduct Should be early maintained.

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Postability- The Roduct Should be easily Postable from one enverorment to other.

logical solabate Reautrements - The database should be relational and of master slave tormat.

4. Analyses models

Data flow stagram level 0



J. Level L Sand avery to do, Records do Update do with new entires Event

5. Change Management Process

- 9f in fulture, we are going to change in hoduct, were Can Submit their issues was feedback or raise an issue in the github relessiony.

- These changes will be affrored by a group of moderators after the review.

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D2 Enlist the major functionalities of Ecommerce Platform
Whe amozon.com, flipkart.com, Jahong.com, myntra.com, snat-deal.com and design test cases to implement behavioral
test of any five functionalities.

= major functionalities of amazon.com

- The interface Provides detailed description of products, afast from its important features, which may include quality and dirension of the Product, brand information, model number, manufacturer details and other additional
- Related Product Details
 on amazon, if we view only Product, a Similar Boducts
 area is also available.
 we can also have relummendations based on that,
- Search and felter

 9t also has a unified search box to search army Kind of

 Product as well as Sisting and feltering options are

 also available.
- order management
 got we can easily add items to cards and place orders
 by giving address details and Paying the amount.
- · Payments module

 How eatily the Payments can be made and what are
 the modes available for the Payment.
- Delivery and returns management.

 gt stores all the delivered and ordered froducts from any
 time as well as the return frocedure.

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Test Case id Dex 01	Test Test case rame dere vatidate to check whether for displayer is comed in the info	d and then	design P night will
Test care of Rel 01	Test Test Care Case Nome dere Validate to check Inclummenter the related Tems one Frolety displayed	Product displayed related	e status brinity Severity
Test Case of Altero1	ralidate to check see filler the filter is applied frozerly.	Rice be in to ascending force order of	test test defect Status Priority Severity (PIF)
Cate id	order auantity or of Product Pl	The Rose Test steps test CP expected actual status Status The increased decreates design what button Her awantity Increase it	

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Test Case id Paymentos	Test case name validate failed Payment	Test cate date 9 Ruyment failed, is the order	Step intenti- onally fast a Payment	exterted oxfers not Placed	actual order Placed	test Case Status design	test status (PIF) fail	test Rivity high	defeat severity critical
		Placed	0						

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013 write a technical article on white box testing and its

- white Box Testing

- -9t is a technique or affront of testing using which, a tester can inslect and inner behaviour and working of a software system, that are code, intrastructure and how the integration is done.
- In white box testing, test is Performed to examine the inner workings of the code.
- 9t is also known as clear box or ofen box testing as the Source code is accessible to the testers.
- 91 is Performed in two major stells first is understanding the code fromded, and second is creating test cases and executing them.

Methods for white Box Technique

- Statement Coverage
 . In this method, we try to traverse all statements in the code at least one time.
 - . This assures that all of the code is tested.
 - . 9 is calculated by No. of executed State x 100

- Path loverage

- . It is concerned with linearly independent Paths through the Code.
- . In this altrout, the testers writes unit tests to execute as many Paths as Possible.

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- . 91 is calculated by Total Paths exercised × 100.
- Condition Coverage.
 - . 90 this method, we make sire that all conditions are Covered in the lode.
 - . 9+ B Calculated by No. of executed operands x LVD.

 Total no of operands
- white box testing is done to dislover these type of bugs.
 - · logical emiss
 - · Detign emors
 - · Typographical errors
 - · Syntax errors.

Advantages

- . It has simple and clear rule to let the fester know when the testing is done.
- . The technique is easy to automate.
- . 9t helps in remarked Parks of the lide that are not estential to the functionality of the Brogram.

Disadvantages

- . If any Part of the code is redesigned and re-uniten, testess need to unite the fest Cases again.
- . Reaures a large effort to autimate.
- Some white box testing tools are. Is Unit net, CAPUNIT, verarede, Junit, etc.
- Thus, the whole Box testing is a valuable approach to dothe Software testing.