**Software Requirement**

**Specification**

For

**SMART\_TEST.com**

Version 1.0

**Prepared by**

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**1.Introduction**

**1.1 DOCUMENT PURPOSE**

SMART -Test this web site saves the time of student. It allow number of student to give the exam at time & display the results immediately as the exam get over. The purpose for this document is to provide SRS(Software Requirement Specification) for our project Smart test.

**1.2 PRODUCT SCOPE**

Using this web site student can clear their basic concept. Check their knowledge & clear their Confusion . This site help to student before giving their semester exam for MCQs. Student can give exam without going to any physical destination . it will save the time of student.

**1.3 INTENDED AUDIENCE AND DOCUMENT OVERVIEW**

Here, our administrator will get a notification in the admin where he can see his previse result. And you compare with current result. Other feature available on the website.

**1.4 DEFINITION, ACRONYMS AND ABBREVITIONS**

1. **HTML**(Hypertext Markup Language)-HTML is a web development language used to built static web pages. Home page of website is created by using HTML.
2. **CSS**(Cascading Style Sheet Language)-CSS is a styling language used to assign look and formatting of document for this project written styling rule in CSS file.
3. **PHP** PHP is a server scripting language and a powerful tool for making dynamic and interactive web page.

**1.5 DOCUMENT CONVETION**

In this document we use font size 12 and font style Times New Roman. All the Heading font size is 14 & bold. Sub-heading font size 12 & bold.

**1.6 REFERENCE AND ACKNOWLEDMENT**

We have taken reference from

http//:www.wikipedia.com

**2. Overall Description**

**2.1 PRODUCT PRESPECTIVES**

Here we will discuss about student . When student can visit this site first Student will registered on the site. There are 3 field Instituted name, Name, Password. When student fill this registration form than second page will display. In this page you can write only your name & enter the password for login the exam. After this, there is option to choose in which semester you want to give exam.

When you select the semester than 6 subject will come over to you. Then select any one subject for the exam .when you select then exam will start. This is 10 mark question exam means 1 mark for each question.

Result will show immediately as the test get over. they will show how mark you will got. And they will show the list of right or wrong answers. Than there is option to retry or logout. After this you can give feedback for this exam. You can also contact us for any difficultly or any suggestions .

In this site you can see your pervious result’s of exam.

**2.2 PRODUCT FUNCTIONALITY**

Here, the user can give feedback to for this site. They will share their expectation, suggestion & their experience about the exam or site.

**2.3 USER AND CHARACTERISTUCS**

Admin of the system should be able to retrieve information about registration , feedback, results made by the user from the data base. Users will access to user function. Admin will have access to both students and user management function.

* **Registration Form:-**

1. Institution name
2. Name
3. Password

* **Login exam:-**

1. Name
2. Password

* **Start exam:-**

1. 1st year :-
2. 1st semester:-1) Computer fundamentals

2) Digital electronics

3) Microprocessor-I

4) C-prog-I

5) Communication skill-I

6) Mathematical foundation

1. 2nd semester:-1) Data structure

2) Operating system

3) IT-tools & web designing-I

4) C programming -II

5) Communication Skill -II

6) Numerical Computation method

2. 2nd year :-

1. 3rd semester:-1)Database management

2) Android-I

3) IT Tools & web designing-II

4) Programming in cpp

5) Personality Development

6) Statistics Method

1. 4th semester:-1) Advanced DBMS

2) Advanced Android Application Development

3) IT tools & Web Designing-III

4) Core JAVA

5) Aptitude & Logical Reasoning

6) Software Project Management

3. 3rd year :-

1. 5th semester:-1)DCN

2) PHP

3) Data Warehouse

4) JAVA-II

5) Ethical Hacking

6) SPM

1. 6th semester:-1) PHP-II

2) C#

3) Data minning

4) Wireless networking

5) STQA

6) Cyber low

* **Show Result :-**

1. Name
2. Password

* **Feedback Form :-**

1. First name
2. Last name
3. Email address
4. Suggestion/ experience

**2.4 OPERATING ENVIRONMENT**

1. Operating System-Windows 7

**2.5 DESIGN AND IMPLIMENTATION CONSTRAINTS**

1. SQL commands for above queries or application.

2. Implement the database at least using a database management system.

**2.6 USER DOCUMENTATION**

Contact devices to be provided as a help for the user. Help manual will be provided so that the process should be accomplished. The manual will depict and emphasize a help for the users. The contact number of company as given below-

**+91 8421806629**

**+91 7507983880**

**2.7 ASSUMPTIONS AND DEPENDENCIES**

Let us assume that you can create account . Then you can attempt the exam. The student can not create account then it can not give any exam from this site.

**3.Specific Requirements**

* 1. **EXTERNAL INTERFACE REQUIREMENT**
     1. **User interfaces**

Front end software-HTML,CSS,PHP. Back end software-MySQL

* + 1. **Hardware interface**

Computer ,Printer, Laptop

* + 1. **Communication interfaces**

We have chosen windows 7 operating system. Database to save the Registrations, results we have chosen MySQL database. To implement the project we have chosen PHP language.

* + 1. **Communication Interfaces**

This project supports all type of browsers. We are using simple electronic forms for registration and feedback.

FTP-the file transfer protocol is a standards protocol use to transfer files from one host to another host over a TCP based network such as internet.

HTTP-the hypertext transfer protocol is an application protocol for distributed, hypermedia information. HTTP is the foundation data communication for the world wide web.

* 1. **FUNCTIONAL REQUIREMENTS**

1. Registration

2. Login Exam

3. Start Exam

4. Show Result

5. Feedback

**3.3 BEHAVIOUR REQUIREMENTS**

**3.3.1 User case view**

A use case is a methodology used in system analysis to identify ,clarify and organize system requirements. The use case is made up a set of possible sequences of interaction between systems and users in a particular environment and related to a particular goal. A use case has two characteristics.

1. Organizes functional requirement
2. Models the goal of system/user interactions

|  |
| --- |
| Registration  Login to exam  user  Start the exam  Give the feedback  Check registration info  Confirm registration  admin  Show the result  Check the feedback form |

**4. Other Non-functional Requirement**

* 1. **PERFORMANCE REQUIREMENTS**

1. Registration process can be faster.
2. User name and password should not be same.
3. Result immediately show after exam get over.
   1. **LOGICAL DATABASE REQUIREMENTS**

|  |
| --- |
| **Registration** |
| Instituted name  Name  Password |

|  |
| --- |
| **Start exam** |
| 1st year  2nd year  3rd year |

|  |
| --- |
| **Show the result** |
| Name  Password |

|  |
| --- |
| **Login to exam** |
| Name  Password |

|  |
| --- |
| **feedback** |
| First name  Last name  Email address  Suggestion/experience |

**cu**

**4.5**

**44.3 SAFETY AND SECURITY REQUIREMENT**

If there is extensive damage to a wide portion of the database due to a disk crash ,the recovery method restores a past copy of database that was backed up to archival storage and reconstructs a more current state by replying the operation of committed transactions from the backed up log up to the time of failure.

Security system need database storage just like much other application. However the special requirements of the security market mean that vendors must their database partner carefully.

**4.4 SOFTWARE QUALITY ATTRIBUTE**

**1. Accuracy** –Information filled by the user should be accurate and genuine.

**2. Maintainability-**The administrator should maintain the result set of user and related attributes.

**3. Usability-** User should be satisfied by the user interface (UI) provided by the website.

**Other Requirements**

The other requirements of website is logo and slogan that indicates the graphical sign of website. Logo of our website is created in photoshop and animation.

**Appendix A- Data Dictionary**

**E-R Diagram :**

It is a technique for representing the logical structure of a database in a pictorial manner. This analysis is then used to organize data as a relation and finally obtaining database.

Entities which specify distinct real world items in an application.

* Attribute
* Entity
* **Software Engineering:**

In modern engineering the role of engineering is to provide system and product that enhance the material aspects of human life ,thus making life easier, safer more secure and more enjoyable.

* **Software Project Management:**

It is the art and science of planning and leading software project. It is a sub-discipline of project management in which software project are planned, implemented, monitored and controlled.

* **Performance Requirements:**

The steps involved to perform the implementation of SMART Test database are as listed below.

1. **E-R Diagram:**

It is a technique for representing the logical structure of a pictorial manner. This analysis is then used to organize data as a relation and finally obtaining a relation database. Entities which specify distinct real world items in an application. Attributes which specify properties of an entity and relationships.

1. **Normalization:**

Normalization is the process of breaking down a table into smaller tables. So that each table deals with a single theme.

**Appendix B-Group Log**

Group meeting are conduct for all kind of activities to fulfill the requirement of software for preparation module of every phase like design, coding, testing. The requirement of website is an agenda and work on that.

**E-R Diagram**

Name

Institution name

Password

Registration

User data

Signup

Name

Login

User

Password

Examination

Generate

Display result

Q. No

Question

Question-Generator

Obj4

Result

Name

Obj1

Obj3

Obj2

Score

Password

**Data Flow Diagrams**

Searching For Design

SMART\_Test.com

User

**Contex**

Level 0: Data Flow Diagram

Registration

Login

Search

Result

Design

Project detail

User

User\_DB

New user

Level 1: Data Flow diagram

Login\_DB

Old User

Name & password

Question\_DB

Admin\_DB

Question generator

Examination

Admin

Level: 3 User Class Diagram

Search

User\_DB

Registration

Login

Enter Username and Password

Validation

User

User\_DB

Level :2 Admin Flow Diagram

Previse result

Result\_DB

Generated the result

Show result