**Software Requirements Specification**

**for**

**BMC Portal: Art & Craft**

**Version 1.0 approved**

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**Revision History**

| **Name** | **Date** | **Reason For Changes** | **Version** |
| --- | --- | --- | --- |
| Interschool Cultural Competition organizer | 3-8-17 | Initial Document | 1 |
|  |  |  |  |

# **Introduction**

## **Purpose**

To create a website which provides a user information about various cultural interschools events hosted by BMC schools. It will enable schools to setup online shops, customer to browse through the shop and purchase them online without having to visit the shop physically.

A large collection of candidates can compete at the same time and the results can be displayed online.

## **Document Conventions**

The document is written in Times New Roman font. The headings are numbered 1, 2, and 3

and so on. And the sub -headings are numbered x.1, x.2, and so on. Both titles and subtitles are

written in bold.

Main title: Times New Roman Font, font size 16.

Subtitle: Times New Roman Font, font size 14.

Contents: Times New Roman Font, font size 12.

## **Intended Audience and Reading Suggestions**

The document explains the purpose and features of the system.It also contains the functional and non-functional requirements, its scope and limitations. This document is intended for the developers and designers of the site, marketing-staff, system analyst, system testers and debuggers.This project is useful for the schools, students and to the customer.

## **Product Scope**

The product can be used by schools to announce and host different competitions.

To provide an examination system where, there is virtually no scope of errors and the results are much faster. And the system is more transparent.

## **References**

During the development of this project websites such as [www.w3schools.com](http://www.w3schools.com), cloud.smartdraw.com, [www.youtube.com](http://www.youtube.com), docs.google.com , wikipedia, [www.google.com](http://www.google.com) , erd plus , argo uml , etc.

# **Overall Description**

## **Product Perspective**

The pre-existing system is offline.The competitions are hosted by a school and the competitors must travel to this school inorder to compete.The sale of the products made by the students was done by the school and was available to a smaller audience.The website is designed to take the system online.

## **Product Functions**

1.Announcing the details of the next competition.

2.Uploading images of the artifacts made by students.

3.Scoring and announcement of winners by judges remotely.

4.Selling the products made by the students.

## **User Classes and Characteristics**

Many users like schools, administrator and customers can use system. Only administrator of the system should be able to enter user or modify any kind of information in the system, but every customer with a valid login ID and password should be able to view items and be able to purchase them.And the schools should be able participate in the competition.

Administrative Function:

1. Modify Database.
2. Announce Competition.
3. Add items to the store.
4. Delete items from the store.

Customer Function:

1. Browse the online store
2. Buy items

School Function:

1. Participate in competition

## **Operating Environment**

1.The basic requirement to use this system is an internet connection.

2. The system shall operate with the following Web browsers: Microsoft Internet Explorer,Microsoft Edge, Google Chrome and Mozilla Firefox with Flash Player and JavaScript.

3. The system will permit user access from the Intranet and from an Internet connection at the user’s home.

4.The basic input devices required are mouse, keyboard and output device is a monitor.

## **Design and Implementation Constraints**

If a computer does not have an Internet connection and Internet browsing capabilities the user won’t be able to access the system. Implement the database at least using a centralized database management system.

**2.6 Assumptions and Dependencies**

We assume all users have basic computer knowledge and also our system provides good user interface and help section to help the user at any moment during visit to the website.

The system will depend on third parties for the delivery of the artifacts to the buyer.

The user has registered and has valid username and password.

# **External Interface Requirements**

## **User Interfaces**

All activities of the system have screen-based interaction. It incorporates with effective GUI concepts and focuses on user-friendly systems. It has good, appealing, attractive,and aesthetic web pages with optimum hyperlink to select the required process. It will comprise of product pictures.

## **Hardware Interfaces**

The user needs a computer, internet connection and a digital camera, and a device or connection to transfer the images from the camera to the computer.

The System must run over the internet, all the hardware shall require to connect internet will be hardware interface for the system. As for e.g. Modem, WAN – LAN, Ethernet Cross-Cable.

## **Software Interfaces**

The system is on server so it requires the any scripting language like PHP, VBScript etc.The system require Data Base also for the store the any transaction of the system like MYSQL etc. system also require DNS(domain name space) for the naming on the internet. At the last user need web browser for interact with the system

The website will run on [Google Chrome](https://en.wikipedia.org/wiki/Google_Chrome) 32–60, [Mozilla Firefox](https://en.wikipedia.org/wiki/Mozilla_Firefox) 27–55.0.2, [Opera](https://en.wikipedia.org/wiki/Opera_(web_browser)) 19–45, [Apple Safari](https://en.wikipedia.org/wiki/Safari_(web_browser)) 8,[Google Chrome](https://en.wikipedia.org/wiki/Google_Chrome) 40–47, [Microsoft Edge](https://en.wikipedia.org/wiki/Microsoft_Edge), [Microsoft Edge](https://en.wikipedia.org/wiki/Microsoft_Edge) 14, [Microsoft Edge](https://en.wikipedia.org/wiki/Microsoft_Edge) 15, [Opera](https://en.wikipedia.org/wiki/Opera_(web_browser)) 43–45, [Opera Neon](https://en.wikipedia.org/wiki/Opera_Software).

## **Communications Interfaces**

Server communication protocols will be used by PHP in order to serve the request made by the client. HTTP(S) protocol will be used to achieve client-server communications. Emails will be used to communicate with the client users for any queries.

# **System Features**

The main features of the system are

## **Hosting the competitions**

4.1.1 Description and Priority

It used to announce the type of competition, date and time and will allow the

Schools to compete.

4.1.2 Stimulus/Response Sequences

The school will be able to upload the pictures of the artifacts created or designed by the students and the judges will score them. The winners will be announced on the site.

4.1.3 Functional Requirements

The main functions required for this is registration and login for the students.A function is required to time the competition i.e to enroll the contestants only if they login within a given time.A function is required to determine the highest score so that the winner can be announced.

## **Selling the products**

4.1.1 Description and Priority

The major service is to provide details of the product, and also to provide platform for buying the product. This feature is specifically designed for the customers. .

4.1.2 Stimulus/Response Sequences

Whenever the user visit our site he/she has to select his/her desired product from the shopping portal and system will respond by placing an order after taking details like phone number address . It makes for the user simple and convenient way to get his/her product.

4.1.3 Functional Requirements

The functional requirement is register and login of the customer.

# **Other Nonfunctional Requirements**

## **Performance Requirements**

The performance totally depends upon the BMC as they would be the master in the whole system. Students would make their artifacts, then the other work is done by their respective schools and the BMC.

## **Safety Requirements**

System will use secured database. Normal users can just read information but cannot edit or modify anything except their personal and some other information. System will have different types of users and every user has access constraints.

## **Security Requirements**

As we are building the website for the government thus all the government rules and regulations related to online security must be followed. Each school will have an unique ID and password. Access without that would be denied.

## **Software Quality Attributes**

All of the application data is stored in an Oracle database, and therefore a Oracle Database must also be installed on the host computer. The server hardware can be any computer capable of running both the web and database servers and handling the expected traffic. The System being based on PHP should be compatible with a variety of web browsers and also should be supported by the older browsers and the newer browsers. The database should always maintain its integrity and correctness.

## **Business Rules**

The main criteria is the competitions held in schools would be judged in the schools by the judges as appointed from the individual schools. The ranker of these competitions will send their artifacts to the BMC through their schools. The BMC then chooses products for mass production.

# **Other Requirements**

To legalize the project we would require proper licensing and permit from the BMC. For now the project is being developed for the BMC, if reaches a full success nationalizing the project would be our next task.

**Appendix:**

HTML- In 1980, physicist Tim Berners-Lee then a contractor at CERN, proposed and prototyped ENQUIRE a system for CERN researchers to use and share documents. In 1989, Berners-Lee wrote a memo proposing an Internet based hypertext system. Berners-Lee specified HTML and wrote the browser and server software in late 1990.

My SQL- My SQL is an open-source relational database management system (RDBMS). In July 2013, it was the world's second most widely used RDBMS, and the most widely used open-source client–server model RDBMS.

PHP- PHP is a server-side scripting language designed for web development but also used as a general-purpose programming language. Originally created by Rasmus Lerdorf in 1994, the PHP reference implementation is now produced by The PHP Group.