Shankersinh Vaghela Bapu Institute of Technology

Information Technology Department

Software Requirement Specification
For
BGKV Club Management System
Version 1.0

BGKV Club Management System	Version: 2.0
Software Requirements Specification	Date: 06/04/2015
The Document contains the online college activities management system's introduction, Functionality, Descriptions. This system is for the Students, faculties and alumni of the college. It also gives description and details of services provide by the system and role of each users. It also gives the list of resources needed for the system.	

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Software Requirements Specification

1.   Introduction

1.1   Purpose

The current project aim at the process of computerizing the manual management of various clubs of our college (i.e. GATE, OSTC, IEEE etc.). This project will also help students and faculty to be in touch easily. It will also provide the way in which students can interact in a better way.

1.2   Scope

It is Internet based system. In which faculties have to login if they want to update something according to their rights. After the providing facilities of registering students in this website, we may provide them facilities of online event registration, e-voting for the class representative, view event details, use discussion forum, view photos and news and also faculties' and students' information. The system also aims at increasing the interaction between student and faculty.

1.3   Definitions, Acronyms and Abbreviations

Word	Description
Admin	Main person(s) that handles the whole website.
Sub Admin	The faculty from a club who handles their club on this website.
Faculties	The faculties that are the part of institute.
Students	The students that are the part of institute.

1.4   References

- Sites:-
1. http://www.ilsa.org/ (International Law Students' Association's Website)
2. http://www.studentassociations.info/
3. http://sa.rice.edu/ (Rice University's Club Association's Website)
4. http://www.w3schools.com/php/default.asp

1.5   Overview

The Document contains the website's introduction, Functionalities, Descriptions. This system is for the Students faculty and sub admin of the association. It also gives description and details of services provide by the system and role of each users. It also gives the list of resources needed for the system.

2.   Overall Description

The system is designed for the various departments & clubs of Bapu Gujarat Knowledge Village campus that are like Gate club, Cultural club, OSTC club, IEEE Club, S4 club, Robotics Club etc. The system will help in the process of managing the interactivity in a better way. Here sub admin of club will be given rights for the management of their department, club and students and other faculties will be notified about the same.

The club also provides the way in which the students and faculty can interact in better way as it provide the facility of open forum on which registered users can give comment and share their views. As students and faculties can access basic Information so students and faculties will be able to know about each other in a better way.

The various functions are:-

1) Various club's information
2) Discussion Forum
3) Photo Gallery
4) Online Event Registration
5) Event Details
6) Profile
7) Students' and Faculties' Information
8) Feedback
9) Online Newsletter

The various users of the system are:-
1. Student.
2. Faculty.
3. Sub Admin.
4. Admin

All the users those who have been authorized by a sub admin can have access of these services. The users just needs an Internet access to access this site.

3.   Specific Requirements

3.1   Functionality

The current system has four users that are students, faculties, admin(s) and sub admin(s). Admin creates sub admins' login. The first and foremost requirement of the user to work with the system is that the sub admin has created there login. After this they can login in the system and can have access to discussion forum, online event registration, feedback, e-voting, news, students & faculties' information.

3.2   Usability

The current project is designed in very simple way. The entire system is based on simple website. So it is very simple to understand the controls and have access. Here the sub admin might need bit of training to get acquainted for other users the system is too simple as it is designed with the touch of social networking site. It might take few hours for user to get acquainted.

3.3   Reliability

The system is highly reliable. As entire system is developed in PHP which is very powerful language. It has very less flows.

3.4   Design Constraints

The system is to be programmed PHP language. Also the styling is to be done with use of CSS3, HTML5, Flash, and might include java script.
The development tools like Macromedia Dreamweaver, MySQL, and Photoshop etc. can be used to simplify the process of designing and coding and debugging.

4.   External Interface Requirements

4.1. User Interface
User interface is designed in a user friendly manner and the user, in another end he has to give the order, for that he will interface with keyboard and mouse.

4.2. Hardware Interface
1) Hard disk – 80 GB
2) RAM – 1 GB
3) Keyboard – Standard QWERTY keyboard for interface
4) Mouse – Standard mouse with 2 buttons

4.3. Software Interface
The final application must be packaged in a website, so that the website can be easily accessed on the client's machine through the internet.

4.4. Communication Interface
Any OS (can be run on mobile devices, laptop, PCs etc.)

4.5. Performance Requirements
The capability of the computer depends on the performance of the software. The software can take any number of input provided the database size is large enough. This would depend on the available memory space

5.   Functional Requirements

5.1   Vision & Mission
ID, Desc, AddDate, EditDate

Added by admin after Login.

5.2   Discussion Forum
Forum_Question: id, topic, name, detail, name, datetime, view, reply, IsActive
Forum_Ans: question_id, a_id, a_ans, a_datetime

Only student/faculty can create topic, reply to the topic after login.
Sub admin must approve the new topic submitted by the student/faculty.

5.3   Club
Stream: StreamId, StreamName, StreamDescription, IsActive, AddDate
Only admin o the website can add new stream (club) after login.

5.4   SubAdmin/Faculty/Student
User:Id, UserId, Password, UserFirstName, UserLastName, Batch, ActivationDate, IsActive,
Email, Phone, UserType
Admin can generate Sub admin.
Sub admin can generate students & Faculty.

UserType	Role
1	Admin
2	Sub admin
3	Faculty
4	Student

5.5   Election
Election_type: ElectionTypeId, EletionType, AddDate, IsActive, Sequence
Election_Participants: Id, electionyearid, ParticipantId, AddUserId, AddDate, IsActive

Only admin can generate the election type.
Sub admin can assign students to the election type & generate new elections.
Students can vote into an election only after login.
Students can vote for only once.

5.6   Photo Gallery

Album: AlbumId, AlbumName, AddUserId, AddDate, IsActive, StreamId
Photo_gallery: PhotoId, AlbumId, filename, AddUserId, AddDate, IsActive

Only sub admin can generate new album & add photos in the same.

5.7   Events

Event_master: EventId, EventName, EventName, Description, EventStartTime, EventEndTime, AddDate, IsActive.
Event_Users: Id, EventId, EventUserId, AddDate, IsActive
SubEventMaster: Id, EventId, SubeventName, SEDesc, SEStrat, SEEnd, IsActive

Only Sub admin can generate new event for its club only after login.
User can participate/register in the event after login only.

5.8   News

News: NewsId, NewsTitle, NewsDescription, StreamId, AddDate, IsActive

Only Sub admin can generate new news for its club only after login.
On home page of website all news will be displayed.
On home page of club all news will be displayed from respective club only.

6.   Non Functional Requirements

6.1. Security
This application will be password protected. The user has to enter correct username and password.

6.2. Reliability
This application should be highly reliable and it should generate all the updated information in correct order.

6.3. Availability
Any information about the patient/doctor should be quickly available from any computer to the authorized user.

6.4 Maintainability
The application should be maintainable in such a manner that if any new requirement occurs then it should be easily incorporated.

6.5 Portability
The application should be portable to run on any OS.