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1. **Introduction**
   1. **Purpose**

The main purpose of this project is to make the task of event management simple and hassle-free. Our system intends to make this process *online with all the event details updated on regular basis*. This will not only save time, but reduce lot of paper works and other hassles generally encountered while organizing and managing an event.

Starting from registration, till the completion of the event, the participants would be updated via email or by short message services. Once registered, the user is introduced with all the events and their details such as venue, date, time, registration fees, etc. Once registered for an event, the user can pay the registration fees via the secured online payment gateway. Payment receipt is given to the user via the email. Once registered, the user receives regular notifications for the event till the event ends. A separate module for FAQ section that will help the users clarifying their doubts and queries if any.

* 1. **Document Conventions**
* **Bold** fonts with the size of 18 indicates the main heading of each section.
* **Bold** fonts with the size of 14 indicates the sub headings of each section.
* Normal Times New Roman font indicates the internal contents of each section.
* *Italic fonts* in certain portions requires attention or higher priority.
  1. **Intended Audience and Reading Suggestions**

The intended audience / the document is meant for the *Developers, Clients, technical writers, System analysts, Project manager, Document writers, Requirement gatherers.*

The document is systematically designed which includes aspects such as Overall descriptions, External interface requirements, System requirements, and other Non-functional requirements. The reader is suggested to thoroughly go through each and every topics and sub topics in a proper chronological order.

* 1. **Product Scope**

The prime aim of building the *Event Management System* is to make the traditional manual system of event registration a simple and smooth online system. The system is built mainly for the events organised in a college. Using this system, the user can search for an event according to the venue, Event ID or Event name. Once registered, user can pay for the event with the help of an integrated secured payment system. If the user has any doubts or confusion, referring to FAQ can solve their doubts in real time. The system is built keeping the mind, important aspects such as time management and cost management.

* 1. **References**

System analysis and design by Kendall and Kendall, PHI Publication, 7th Edition.

Itech.fgcu.edu/faculty/zalewski/ism4331/writingsrs.doc

<https://en.wikipedia.org/wiki/Event_management>

<http://www.ric.edu/ems/>

1. **Overall Description**

**2.1 Product Perspective**

1. The digitalization of the system will reduce a lot of paperwork and hence the load on the administrative staff.
2. The data can easily be retrieved and any required addition, deletion or updating can be performed.
3. The system provides for user-ID validation; hence unauthorized access is prevented.

**2.2 Product Functions**

1. Provide signup to users for account creation.
2. Provide login to users on entering valid login credentials.
3. Provide account recovery options to users in case they lose their login credentials.
4. Maintain notification service that notifies users about upcoming events and their details.
5. Enable participants to register online for any event.
6. Provide users with a secure payment gateway to make payments.
7. Provide users with an FAQ section to post their queries.
8. Maintain complete database of each and every entity involved in the management system.

**2.3 User Classes and Characteristics**

The classes involved and their characteristics/attributes are as follows:

1. **Admin**
   1. ID
   2. Name
   3. UserName
   4. Password
   5. InstitutionID
   6. ContactNo
   7. EmailID
   8. Gender
   9. Age
2. **Faculty**
   1. ID
   2. Name
   3. UserName
   4. Password
   5. InstitutionID
   6. ContactNo
   7. EmailID
   8. Gender
   9. EnrollmentNo
   10. Age
   11. CollegeName
3. **Student**

* 1. ID
  2. Name
  3. UserName
  4. Password
  5. InstitutionID
  6. ContactNo
  7. EmailID
  8. Gender
  9. EnrollmentNo
  10. Age
  11. CollegeName

1. **Sponsor**

* 1. Name
  2. ID
  3. Type
  4. Website

1. **Guest**

* 1. Name
  2. ID
  3. EmailID
  4. Age
  5. Designation
  6. Info

1. **OtherParticipants**

* 1. ID
  2. Name
  3. ParticipantType
  4. UserName
  5. Password
  6. ContactNo
  7. Gender
  8. EnrollmentNo
  9. Age
  10. EmailID

1. **ExternalExpertise** 
   1. ID
   2. Name
   3. EmailID
   4. Age
   5. Designation
   6. Info
   7. Specialization
   8. PlaceOfWork
2. **Event** 
   1. ID
   2. Name
   3. Venue
   4. Incharge
   5. Date
   6. Time
   7. ParticipationAmount
   8. OrganisingDepartment
   9. Type
3. **EventCoordinators** 
   1. ID
   2. Name
   3. CoordinatorType
   4. UserName
   5. Password
   6. ContactNo
   7. EmailID
   8. Gender
   9. EnrollmentNo
   10. EventID
   11. Age
5. **Volunteers** 
   1. ID
   2. Name
   3. VolunteerType
   4. ContactNo
   5. UserName
   6. Password
   7. EmailID
   8. Gender
   9. EnrollmentNo
   10. EventID
   11. Age

**2.4 Operating Environment**

The environment required is *Wamp* server. No special hardware requirement. The software can run in any operating system (*Java* is used). *MySQL* is used for the creation of database.

**2.5 Design and Implementation Constraints**

The software is going to be developed using standard web languages such as *HTML, CSS, Javascript and PHP* and connectivity with *MySQL* database, so there are no software limitations as these languages can run on any OS and a browser that supports HTML5. The software is expected to be developed within the time period of 3 months including analysis, planning, modeling, construction and deployment, i.e. all the stages required for the software development.

For the security purpose, the user authentication will be performed which will allow only the registered users to login. The software will be developed in *PHP* with the *MySQL* (database) connectivity.

For any future demands the modifications will be performed.

**2.6 User Documentation**

The user is being provided with all the important information. The user can login to view event details and register for the same using the secure payment gateway. The user can go through the reviews, and can ask for the online help, which will instruct him/her to get through the process. The user will be notified of any upcoming events via *Email* as well as *SMS*. The user can give the feedback too.

**2.7 Assumptions and Dependencies**

* Administrator will be having a valid account type, user name and password to access the software.
* The software needs students and staff members to have basic knowledge in computing and web surfing.

1. **External Interface Requirements**
   1. **User Interfaces**

The system is implemented through a web app or a web site. At each page, the following tabs would be present.

1. Sign-up
2. Login
3. FAQ
4. Home
5. Search
6. Events
7. Feedback
8. Contact-us

The home page of the website gives a glance of all the events that are upcoming in the institution. Once clicked onto the event, a detailed description along with photographs is displayed to the user for better understanding. If a user wants to register himself on some events, he is required to be signed in.

If the user does not have an account, clicking on the sign-up button will lead to a web form, that requires the user enter his/her details such as First name, Last Name, User name, password etc.

Once signed in, the user can easily register himself/herself for an event. A separate registration form would pop up, once clicked the register button. The registration form would simply require user to enter the Name, Account ID and payment type. Online payment gateway(secured) will be provided that allows the user to pay for an event.

FAQ and Contact Us tab is available at every page that helps the user when any problems are encountered.

* 1. **Hardware Interfaces**

The system is designed to be Web site, hence the website can run on any operating system and on any hardware. The website is designed with the help of standard languages such as *HTML, CSS, JAVASCRIPT, PHP.* Communication protocol used will be HTTP.

* 1. **Software Interfaces**

The database used in the system is *MySQL,* the linking of the main web page and the database is done through the language called PHP. With the database connectivity it can perform following operation:

1. Select()
2. Insert()
3. Update()
4. Delete()
5. Modify()
6. Drop()

When the user wants to view or search for an event, he can simply enter the Event ID and the selection of all the events matching with the given Event ID is done and is displayed

In a signup page, when the user enters all the credentials, it is inserted into the database, which is used for future authentication, when the same user is signing in.

If there is any change in the Event detail, user account etc., the update () can be used to edit or update that particular data.

* 1. **Communication Interfaces**

The Event management system is an online web application, hence it requires a browser, supported by wamp server/ xampp server. The protocol should be HTTP and HTTPS for the payment gateway. The database used is *MySQL*, Hence PHP is used as the connecting language between the front end and the back end. Email service is also provided which is used to provide the updates and notification for the user via the Email ID entered during Signup.

2. **Other Non-Functional Requirements**
   1. **Performance Requirements**
3. Consistency of the data: The website is mainly used to scrap the old manual system, hence the consistency is given more stress, as data should not get hampered when stored in more than one table, relationship should work properly between the required tables to generate proper result.
4. Updated data: As the website would be accessed by thousands of users, it is required that the data present is the latest and also accurate. The database maintenance should be given top priority
5. Real-time response: If the website is said to notify the user for regular updates and important notifications, these activities should be real-time and prompt as well, a delay in the notification can lead to various problems
6. Website requirements: The website should look appealing to the user, but should not use heavy bandwidth for starting up, this may lead to inaccessibility of the website by the user

**5.2. Safety Requirements**

**Data Backup:** As the web app builds up, more and more media files will be uploaded and amount of data may spike up. In that case, loss of data is not desirable. Hence a regular back up of the same is required

**Backup server:** It may happen that many users log in to the website at the same time, in some cases it may be heavy for the server to handle and cater user’s need. And in worst situation, the server may spike up and the website will ultimately be down. It is always desirable to have backup server for giving seamless service to the user.

**5.3. Security Requirements**

**SSL Certificate:** The software supports online payment for completion of the registration of particular event, for a legit payment gateway, the software should have the SSL certificate which makes the communication encrypted

**User Authentication:** The software implements secured Signup and Login module which allows the users to register once and thereafter, input the valid login details for getting through the login module.

**5.4 Software Quality Attributes**

**Flexibility:** The software is designed over HTML5, PHP, Javascript which is the most commonly used languages for website development and hence is operating system independent.

**Reusability:** The software is built keeping the mind of all the activities that is performed in college level. But the software can be extended to be used for school events as well as corporate levels after making few changes to the existing system.

**Correctness:** The software is built for all the activities that are planned to be held in the college and hence all the functions, users are kept in mind and are designed according to the gathered requirements. Hence assurance of at most correctness is delivered.

**5.5 Business Rules**

1. Users are allowed only once to register for the software. If in case username or password are forgot, separate function for recovery is provided.
2. Users can register only once for an event. Multiple registration is denied for a single user for the same event.
3. Only the admin can edit and modify the basic structure and master page of the software.