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GSU Event Portal

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ABSTRACT

Event organization and its execution is an important factor while dealing with the global event, also sometime same event at different stages and at different location. The event organizations often keep a very important information and global intimation center to the users of the portal. There are different locations, address; their reach ability is associate with the event portal which is the main informative center in between the event organizer and event participants. In the project and concept present by us is map based event management and information management system which is maintaining the different measurement, information and other factor via single platform which is done on java web technology part. The existing system consist sometime manual registration which demands for sending letter via courier and receiving their replies via another hard copy courier. Also the requirement of payment collection and other terms in the meantime is getting over big trouble with distance. Also the existing system is not providing a proper user interaction where the flexible and interactive search is not given in the meantime.

The problems are associate such as making a proper, regular and quick communication is required at different user end. Also the filtering techniques are not been implemented with the current event organizing portals.

The above problems can be further fix with the proposed solutions mean term which given a proper utilization of technology, such as filtrations on maximum parameters, proper utilization of available data. A proper utilization of gathered information is being implemented technically here. This fits the usage and solves the manual problem and delay issues. Our proposed systems makes use of cutting edge technology and via using a proper validation it implement an auto interactive portal for the event management at efficient level.

The development is done by the JSP – which is java oriented technology for server side and remains secure and efficient for user interaction. Our system claims the best work out in the event management technique.
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I Project Description

The project contain various modules and features such as registering for the event, finding event details and thus, it would be very convenient if the common man gets the information of all the events taking place at various locations on a single portal.

- With location information
- Event information

To provide a Google Map Based Event Management Portal using which the user can register for the various desired events happening at any location from anywhere, which saves time and cost, thus makes the system more interactive, dynamic and flexible.

1.1 Competitive Information

- Browse the generated map to identify location information and to select the interested location.
- View the various events with their date, descriptions at the selected locations.
- Selection of desired event.
- Register for the selected event.
- Store the registered member’s information for the respective events in the registration server.

1.2 Relationship to Other Applications/Projects

The project having the relation with other application such as the following requirement matching need the application to satisfy the project requirement:

1. Google map integration and the application to integrate provided by the google.
2. Project required the JQuery library to support dynamic operation and run time content loading into the html and other web component interface.
3. Dependency on application server, the project requirement is to associate with the server and using its library to compile and execute the program.
4. Database MySQL is required which is in support to provide a proper DBMS to store and retrieve the data in the correct usage and structure format.
1.3 Assumptions and Dependencies

- Project event location, their longitude and latitude is known by the publisher.
- Project required the further software installation such as JDK 8, NetBeans IDE for the development and accessing API properly.
- MySQL database for the data storage and other temporary or permanent access storage system.
- Admin panel is given in this project to operate as backend and thus monitoring the various activity which are associated with the current project.

1.4 Future Enhancements

As per the project is very respective to the current market technology the future enhancement can be done in these aspects:

1. A mobile android app can be design for alert and notification.
2. An Android interface can be draft for user end.
3. In future an interactive chatting option can be given here to the user and admin level to solve the end user queries and increase the participation.

1.5 Definitions and Acronyms

GSU – Governors State University
EP – Event portal
Application – A representation of complete architecture.

ERP – enterprise resource planning
J2ee – Java enterprise edition
JSP – Java server Page
SQL – structure query language

2 Technical Description

Google Maps extended in order to create an event management portal and to organize the open chat among the event viewers. It would be very convenient if the common man gets the information of all the events taking place at various locations on a single portal.
• With location information
• Event information and details

If anyone wants to know about the events happening at various locations and wants to attend those events then they cannot get that information through Google Map.

To provide a Google Map Based Event Management Portal using which the user can register for the various desired events happening at any location from anywhere, which saves time and cost, thus makes the system more interactive, dynamic and flexible.

These are the following features:

• It is an event management system that displays all the events on the map.
• One can identify a particular location.
• Whenever one clicks on the location in the map, it displays a list of all the events happening at that location.
• It specifies the location easily and displays the events and allocates the registration process by the user.
• By clicking on the event name in list, one can register for that event.
• When the registration process is completed, one is ready to have open chat with the members.
• It is an open chat system to hold the discussions with the other event members.
• This open chat system is accessed only by the authenticated user.

Advantages of Proposed System:

Using the proposed system user can register for the desired events at any location from anywhere, which saves time and cost, thus makes the system more dynamic and flexible.
2.1 *Application Architecture*

**PRODUCT PERSPECTIVE**

- The web pages (XHTML/Servlets) are present to provide the user interface on common user client side. Communication between user and server is provided through HTTP/HTTPS protocols.
- The Client Software is to provide the user interface on system user client side and for this TCP/IP protocols are used.
- On the server side web server is for Servlets and database is for storing information.

*The complete use case diagram for the two given module in the project is identified here:*

![Use case diagram](image-url)

**Figure 1**: Use case diagram for the modules.
➢ **Common user:** Who uses the “Google map based event management portal” to get registered for various events at various locations and have an open chat with the other registered members.

➢ **Admin:** Responsible for Generating Google Map, managing events and chat portal.

➢ **Control server:** This is responsible for generating the Google map using Google Map API.

➢ **Registration server:** This stores the information of all the registered members for various events.

## 2.2 Application Information flows

**MODULE-1:**

**Map Creation and Location Identifier:**

In this module you are going to use Google Map API which helps for Map creation of a particular location. After the map is generated the users can search and navigate through places.

**MODULE-2:**

**Event Registration Portal:**

This module helps the user to register to an event he/she is interested in. In order to get registered one has to fill an application form in which he will specify all details and one will specify the username and password which makes him a member of the particular event.

**Module - 3:**

**Admin Panel**

This module help to create event, their location. Also the module contains the monitoring part of the complete portal such as monitoring the registered users, monitoring the complete flow of the users. Payment options and other updates options for the portal.
2.3 Interactions with other Applications

Google Maps (for a time named Google Local) is a free web mapping service application and technology provided by Google that powers many map-based services including the Google Maps website, Google Ride Finder and embedded maps on third-party websites via the Google Maps API. It offers street maps, a route planner, and an urban business locator for numerous countries around the world.

A related product is Google Earth, a standalone program for Microsoft Windows, Mac OS X and Linux which offers enhanced globe-viewing features.

Google Maps is a map service that you view in your web browser. Depending on your location, you can view basic or custom maps and local business information, including business locations, contact information, and driving directions. Click and drag maps to view adjacent sections immediately. View satellite image with or without map data of your desired location that you can zoom and pan.

2.4 Capabilities

There are following points should be follow while executing the project:

1. Project should be user friendly and responsive in nature.
2. Project should be communicable with database.
3. Project should accessible globally.
4. Project should allow to find exact location.
5. Project should able to register the candidate by location.
6. Project should able to make entry in event.
7. Project should provide filtering via different parameter.
8. Project should provide admin functionality for portal update.

2.5 Risk Assessment and Management

There are following risk assessment and management is need to considering while performing working with the designed project and scenario.

1. The project should provide a proper location information for the further execution.
2. Registration verification and validation should done properly by the verified person.
3. An admin panel operation should monitored all the activity done by the registered and end user in the event portal.

4. At management level three tier use should be well maintain and perform by the user.

3 Project Requirements

In order to execute the project there are following project requirement which make and utilize proper efficiency of project. Here we mentioned the minimum requirement to execute the project.

3.1 Identification of Requirements

SOFTWARE INTERFACE:
- **Client on Internet:** Web Browser, Operating System(any)
- **Client on Intranet:** Client Software, Web Browser, Operating System(any)
- **Web Server:** Tomcat 8.x, Operating System(any)
- **Data Base Server:** MySQL 5, Operating System(any)
- **Development End:** Flex, J2SE, J2EE, HTML, Action script, AJAX, Java script, Google API, OS(Windows)

HARDWARE REQUIREMENTS
- 13 processor
- 2GB Memory
- 500GB HDD

3.2 Operations, Administration, Maintenance and Provisioning (OAM&P)

The design project keeps maintain the various aspect standard of coding which are stated here:
- Keep a count of the number of lines of code. Though there cannot be a benchmark for the maximum lines of code in a sub routine but higher the lines of code indicates
  - Higher is the maintenance.
  - Need to split up in to child levels.
• Place every module in Try Catch () and finally () block to prevent disgraceful exit.
  ➢ Avoid excessive complexity.
  ➢ Avoid excessive Inheritance.
  ➢ Variable name should not match the field names.
  ➢ Reduce complexity of conditional branching.

The coding standard follows the responsive design as per the today’s market requirement and also it gives lowest execution time to load and execute the application.

The complete project is portable from current host to another host and database backup can be taken by export option at MySQL database.

3.3 Security and Fraud Prevention

• Authentication module will ensure that only authorized users are provided access control on the web site.
• Roles will be defined to impose restrictions on the authorized users.
• Ensure that buffer overflow and integer overflow will be avoided.
• Whenever user is deleted his privileges will also get deleted.
• Carrying periodic backup of the database and maintain a log.

Honey Pots intentionally include some PCs in the network which are vulnerable for hackers. They can be used to catch hackers or fix vulnerability.

3.4 Release and Transition Plan

Explain how the project will be deployed to customer, or update from current release to newer release.

4 Project Design Description

Architecture:

In the three tiers any number of servers, which in turn serve clients in a network, can access the database using applets, the applet running in some other machine, a send
request only to the server from which it is downloaded. For this reason we need to have an intermediate server which will accept the requests from the applets and send them to the actual database server. This intermediate server acts as two-way communication channel.

That is the information or data from the database is passed on to the applet that is requesting it. This can be extended to make N-tiers of servers, each server caring to a specific type of requests from clients. Sometimes the middle tier may use some caching so that the response can be given faster.

**List of Figures**

![Use case diagram for the modules](image1)

**Figure 1:** Use case diagram for the modules.

![Architecture](image2)

**Figure 2:** Architecture
The above complete architecture make use of interaction with the different services and the user terms with the application and process under gone in between the scenario.

5 Internal/external Interface Impacts and Specification

PORTABILITY

Specify attributes of software that relate to the ease of porting the software to other host machines and/or operating systems.

This may include:

a) Percentage of components with host-dependent code
b) Percentage of code that is host dependent
c) Use of a proven portable language
d) Use of a particular compiler or language subset

SYSTEM MODE

Some systems behave quite differently depending on the mode of operation. For example, a control system may have different sets of functions depending on its mode: training, normal, or emergency. When organizing by mode there are two possible outlines. The choice depends on whether interfaces and performance are dependent on mode.

6 Design Units Impacts

Upon deriving the concept there are following unit design impact which make project effective and important with the following terms.

• Correctness - extent to which program satisfies specifications, fulfills user’s mission objectives
• Efficiency - amount of computing resources and code required to perform function
• Flexibility - effort needed to modify operational program
• Integrity/Security - factors that protect the software from accidental or malicious access, use, modification, destruction, or disclosure
• Interoperability - effort needed to couple one system with another
• Maintainability - ease of maintenance of the software itself
• Portability - ease of porting the software to another host
• Reliability - factors required to establish the required reliability of the system
• Reusability - extent to which it can be reused in another application
• Testability - effort needed to test to ensure performs as intended
• Usability - effort required to learn, operate, prepare input, interpret output
• Availability - factors required to guarantee a defined availability level for the system

7 Acknowledgements

This section should include a reference to prior authors, etc. and others who have assisted in the generation of this document.
8 Output Screen shots
<table>
<thead>
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<th>Event Logo</th>
<th>Title</th>
<th>Location</th>
<th>Description</th>
<th>Price</th>
<th>Tags</th>
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</tbody>
</table>

Register
Pay Now
Register
Pay Now
9 References


10 Appendices

- Google Map API: www.code.google.com/apis/maps
- https://ts.fujitsu.com/cisi/fts/
- https://www.ibm.com/developerworks/community/groups/service/html/communitystart?communityUid=838d8343-517b-48be-b4b4-5f6c00ab1adc