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GSU Event Portal

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ABSTRACT

This is Event Portal for event registration provides organizers to create, promote, manage and sell events of all types and sizes. The platform is mobile friendly, simple-to-navigate interfaces and design flow to enable organizers to manage events, and help users browse events and buy tickets with ease, the fundamental thought behind plotting this application is that organizer can design events as indicated by his requirements, needs and spending plan. We designed database to effectively store, get to and keep up information from the database and can be utilized for future usage.

Our Event Portal is particularly configured to diminish the correspondence gap between organizers and users. Simple access information from database. The organizer can choose the topic for their occasion. Users can register for any coming event from anyplace. Admin and organizer can keep records of users.

This task gives a stage to advance events by organizers where users finds events utilizing users present area. It enables organizer to make any occasion with parameters like categories, event time, date and cost with points of interest.

This agreement principally concentrates on making and propelling an event for an event coordinators and users. The basic idea to design this project is to make a simple and easy event portal for organizers and visitors on any kind of events.
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1. Project Description:

This is an online portal website for event registration near our locations where organizers create events and post them in the portal, admin maintains the web site with exact information and gives access to users, organizers.

The database is designed in such a way all the user’s information is stored in user’s tables and information about organizers are stored in organizers table here admin creates the organizers who has access to create an event in Gsu Event Portal.

The payment gateway is simple by using secure payment gateway application from PayPal.

1.1 Competitive Information

This project will gather all the events near us and if users registered this event they get the information directly to their mail with google calendar and remainder. The event alert helps users to remind interesting events near them.

1.2 Relationship to Other Applications

Our application is directly related to many applications like College Events, Technology Events, Carrier Fairs etc. but the design and user interface is unique and simple.

1.3 Assumptions and dependencies:

We tested our page and created below assumptions and dependencies

- The browser must be updated version so that it can be used in any client browsers like Chrome, Firefox, Edge.
- Dependencies like payment gateway and information retrieval is included in the database.

1.4 Future Enhancements

The future scope of this project is to improve the locations and to provide student discounts and payment methods.
1.5 Definitions and Acronyms
Following are the Acronyms that have been used in the document:

- GSU – Governors State University
- 3NF – Third Normal Form
- C# – ASP.Net (C Sharp)
- IP – Internet Protocol
- DNS – Domain Name Server
- HTML – Hyper Text Markup Language
- Admin – Administrator
- CSS – Cascading Style Sheets

**I-Frame:** An inline frame is a tag which an HTML document embedded inside an HTML document. It behaves like an inline Image

**Inline Queries:** Inline queries are like other semantic search features, and can be limited to a site to ensure enough performance

2 Project Technical Description
This project is an online marketing application, where events are sponsored by organizers and users can register and admin will maintain the pages transactions and other web activities. Here organizers create events like free and paid with the description of the events. The users who wish to register the events can visit online and register these events.

The data is securely updated in the database, can be easily stored and retrieved by an organizer. Here organizer promotes the events in Google by using meta keywords and meta words which are provided for the creation of events.

2.1 Application Architecture
For better response and better view, we used bootstrap and MVC (model view controller) frameworks which support Microsoft SQL server for the database. We used stored procedures as methods to call information or to store, delete or insert records into database from UI

2.2 Application Information flows
- Current events
• Filtering Event categories

• Organizer sign in

• Event registration

2.3 Interaction with Other Projects:

We are not having any interaction with other projects

2.4 Interaction with other applications:

As we are doing graduate project this application will interact with SQL server to retrieve the registration details and payment methods for users, organizers and admin.

2.5 Capabilities

• Normalized functions

• Backup event transactions

• Database backup

• Easy use of application

• Data integration

2.6 Risk Assessment and Management

Data security and integrity is always at risk, therefore encryption techniques and recursive review of database commits will help preserve the data. A fall back of the database is also maintained, in scenarios of possible physical disasters, or an online threat where data loss is imminent.

3 Project Requirements

3.1 Identification of Requirements
This data base is designed to store the details of all users signed up.

**Required column names**: User Id, User Name, Address, Contact number, Email, Login Id, Login Password.

Mandatory to include in a database table.

This data base is designed so DB table to store the Event Details.

**Required Column names**: Event Id, Event Name, Event Schedule, Event Type, Ticket Cost, Event description, Organizer Id, Organizer details.

Mandatory to include in a database table.

This function Admin must access new users to be added, updated, or deleted by the application.

Mandatory in application while designing

The Function helps to keep user logged in until session over or logged out

Mandatory in application development

Use Case Diagram
Figure 3.1 Use case diagram for both Admin and users

Activity Diagram

Figure 3.2 Activity Diagram for GSU Event portal
3.2 Operations, Administration, Maintenance and Provisioning (OAM&P)

- Data should be properly integrated and encrypted.
- Weekly update and backup the event and data
- Users can contact the organizer for further details.
- Users and organizers contact the admin for authorizations and event registration and for credential details.

3.3 Security and Fraud Prevention
To detect the fraud, we applied the algorithm for prevention of fraud payments and for security for data sources and while creating our password it is necessary to create a policy for unbreakable security techniques. We are ready for data breach and data sustain in current database.

3.4 Release and Transition Plan
The organization staff will maintain the website for all future releases and transitions.

4 Project Design Description
The GSU Event Portal is designed to display current events and allowed to buy tickets for the events that appear on the website. The website member will have the privilege of browsing events and to purchase tickets for selected events. The events that are displayed are happening in the United States where there will be at least one venue per city throughout the country.

4.1 Flowchart
Figure 4.1 Flow chart for GSU event portal both admin and user

4.2 Sequence Diagrams for User:

Figure 4.2 Sequence diagram for user who sign up and login
4.3 Sequence Diagrams for Organizer:

Figure: 4.3 Sequence Diagram for Organiser who does not signup

Database Scheme
<table>
<thead>
<tr>
<th>Column Name</th>
<th>Data Type</th>
<th>Allow Nulls</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD</td>
<td>int</td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>nvarchar(50)</td>
<td></td>
</tr>
<tr>
<td>STATUS</td>
<td>nvarchar(1)</td>
<td></td>
</tr>
<tr>
<td>CREATEDBY</td>
<td>nvarchar(50)</td>
<td></td>
</tr>
<tr>
<td>CREATEDDATE</td>
<td>datetime</td>
<td></td>
</tr>
<tr>
<td>MODIFIEDBY</td>
<td>nvarchar(50)</td>
<td></td>
</tr>
<tr>
<td>MODIFIEDDATE</td>
<td>datetime</td>
<td></td>
</tr>
</tbody>
</table>
5 Internal/external Interface Impacts and Specification

An internal interface is sources for running an application like SQL server.

An external interface deals with payment methods, google maps, user registrations details

User Interface

Maps when events are present:
Home Page:

Event Page:
Adminlogin:

Admin can delete, add, views events
6 Design Units Impacts

GSU Event Portal consists of three functional units. They are the member registration, events generation unit and the transaction processing unit. The main home page will be displayed with events, sign in, register functional units of the GSU event portal. Users registration unit allows user to register as a member of the event portal. After the user enters the appropriate information, user’s data record is created in the user’s data table. Also, a record in the user address table is created. The organizer can add, modify and delete events from the GSU event portal.

Filtering categories allows the users, organizers and admin to search the events and allows users to register for various categories, user cannot register for the event which is concurrent. Organizers checks how many hosts are available on a event and can change number of tickets available.
Admin creates organizers with default password which is sent to the default mailing address provided by organizer. Admin has permission to access the properties of users and organizers he can maintain web database, other transactions and rollback activity

### 6.1 Functional Area

The functional areas are the registration, events and transaction process. Each functional area is depended on one another. Registration data information is linked to the membership address data information. The Event data information is connected to event address information. Transaction data information is linking to event data information. All links have an impact on one another.

The registration number of the user data table is linked to the membership address identification field. The Event number is matched event identification and vice-versa. The links creates dependency and an impact on the project and the data that supports each process.

#### 6.1.2 Impacts

The design unit depends on three factors. But, we are focusing on our GSU event portal project. The main agenda is to create a simple web interface to user and admin with updated features and simple database design to organizers, users, and admin

#### 6.1.3 Requirements:

##### Software Requirements

<table>
<thead>
<tr>
<th>Operating System</th>
<th>Windows XP/2003, later or Linux</th>
</tr>
</thead>
<tbody>
<tr>
<td>User Interface</td>
<td>HTML, CSS</td>
</tr>
<tr>
<td>Client-side Scripting</td>
<td>JavaScript</td>
</tr>
<tr>
<td>Programming Language</td>
<td>Visual Studio .NET 2013 Professional.</td>
</tr>
<tr>
<td>Database</td>
<td>MS SQL</td>
</tr>
</tbody>
</table>
**Hardware Requirements**

Processor : Pentium IV  
Hard Disk : 40GB  
RAM : 512MB or more

7. **Open Issue:**

The only open issues is we are using inline functions in payment gateway other than this we are not having any open issues.

8. **Acknowledgements:** I owe my gratitude to our project guide Professor Alex, Liu, who took a keen interest on our project work and guided us all along, till the completion of our project work by providing all the necessary information for developing a good system.

9. **References:**

2. Murach's ASP.NET 4.6 Web Programming with C# 2015 / Edition 6  