Fall 2017

GSU Event Portal

Rachana Goud Kola
Governors State University

Nikhil Kumar Sunkari
Governors State University

Jeevani Vangala
Governors State University

Follow this and additional works at: https://opus.govst.edu/capstones

Part of the Computer Sciences Commons

Recommended Citation
Kola, Rachana Goud; Sunkari, Nikhil Kumar; and Vangala, Jeevani, "GSU Event Portal" (2017). All Capstone Projects. 355.
https://opus.govst.edu/capstones/355

For more information about the academic degree, extended learning, and certificate programs of Governors State University, go to
http://www.govst.edu/Academics/Degree_Programs_and_Certifications/

Visit the Governors State Computer Science Department
This Project Summary is brought to you for free and open access by the Student Capstone Projects at OPUS Open Portal to University Scholarship. It has been accepted for inclusion in All Capstone Projects by an authorized administrator of OPUS Open Portal to University Scholarship. For more information, please contact opus@govst.edu.
GSU Event Portal is a web application used for organizing various events around the world. Events include work by three different roles, admin, organizer, and visitor.

This web application offers a very interactive user interface, so that every user can easily navigate to every corner of the website and explore all the functionalities. It consists of advanced functionalities like searching for the events, registration, editing profiles, sorting, showing event location on map etc. The goal of this application is to take service to the fingertips of user and provide all the services like event registration, secure digital payment, cancellation, refunds, and also designing a forum where users can interact with other users about the events and any other concerns.

Admin can manage everything in the website. Functionalities for admin include approving the event, deleting the event, managing organizers, managing user data, managing transactions etc. Role of the organizers are limited to their own events. They have full control for their events like viewing registrations, user details, payments etc. and additionally they have functionalities to create new events or modify current events. Functionalities for visitors include viewing all the available events, searching for events, registering for interested events, contacting organizers, paying for events etc.
# Table of Content

1 Project Description ........................................................................................................... 1  
1.1 Competitive Information ................................................................................................. 1  
1.2 Relationship to Other Applications/Projects .................................................................. 1  
1.3 Assumptions and Dependencies ...................................................................................... 1  
1.4 Future Enhancements ...................................................................................................... 2  
1.5 Definitions and Acronyms ............................................................................................... 2  
2 Project Technical Description ............................................................................................ 3  
2.1 Application Architecture .................................................................................................. 3  
2.2 Application Information flows ........................................................................................ 3  
2.3 Interactions with other Projects (if Any) ........................................................................ 4  
2.4 Interactions with other Applications .............................................................................. 4  
2.5 Capabilities ...................................................................................................................... 4  
2.6 Risk Assessment and Management .................................................................................. 4  
3 Project Requirements ......................................................................................................... 5  
3.1 Identification of Requirements ........................................................................................ 5  
3.2 Operations, Administration, Maintenance and Provisioning (OAM&P) ......................... 5  
3.3 Security and Fraud Prevention ......................................................................................... 6  
3.4 Release and Transition Plan ............................................................................................ 6  
4 Screenshots .......................................................................................................................... 6  
5 Internal/external Interface Impacts and Specification .......................................................... 15  
6 Design Units Impacts .......................................................................................................... 15  
6.1 Functional Overview ....................................................................................................... 15  
6.2 Requirements ................................................................................................................... 15  
7 Acknowledgements ............................................................................................................. 16  
8 References ............................................................................................................................ 17
1 Project Description

Using technology in every aspect of life has become a normal thing these days. This Project is aimed to take ease of technology to the fingertips of people by providing all the services through the website. This is a great platform for people who wants to sit in home and do all the transactions like booking for an event, searching for their interested events, browsing different places etc.

1.1 Competitive Information

GSU Event Portal is a website for making event management easier. There are so many other websites which offer event management. Some of them include Eventbrite, Eventsmart etc. These are the competitors for us and GSU Event Portal has the potential to beat the competition by using some unique functionalities like giving a dedicate place for organizers in the website and allowing admin to change the website user interface according to the season of events.

1.2 Relationship to Other Applications/Projects

This website, GSU Event Portal is related to eventbrite.com and eventsmart.com and what makes the GSU Event Portal unique from the above websites is the website is frequently updated and in few clocks user reaches from home page to payment page. Navigation in the website is very realistic and user friendly.

1.3 Assumptions and Dependencies

➢ We made assumption that the average visitor to the website understand the terms User, Organizer and Admin.
➢ Assumption made that the user will be able to navigate in website and play with the website.
➢ Assumption made the details of all the organizers are valid and correct.
➢ Assumption made all the services used in the application are running 24/7.
1.4 Future Enhancements

Future plan is to integrate the website with artificial intelligence and pattern matching to provide users customized experience based on user history and recent searches. Suggesting an event to user becomes easier when we analyze his pattern of previous bookings and match them with his interests.

1.5 Definitions and Acronyms

User: Person who visits website to search and register for an event.
Organizer: Person who hosts the event and look for users on the website.
Admin: Person who can control everything in the website.
UML: Unified Modeling Language
HTML: Hyper Text Markup Language
SQL: Structured Query Language
MVC: Model View Control
2 Project Technical Description

Front end of the website is designed using HTML, CSS and Bootstrap. All the backend functionality is done using asp.net/C# and the database used for storing the data is Microsoft Sql Server 2016.

2.1 Application Architecture

2.2 Application Information flows

Guest → visit website → Home Page → Search for Event → View Results on map → View event details → login/register as User.

User → login → Search for Events → View Results → Select Event → Payment → Done.

Organizer → login → Create Event → Manage Events → Manage Users (Event Specific).

Admin → login → Create Event → Manage all Events → Manage all users → Manage UI.
2.3 **Interactions with other Projects (if Any)**

There are no interactions with any other projects.

2.4 **Interactions with other Applications**

There are no interaction with other applications.

2.5 **Capabilities**

Capabilities of Admin:
- add/delete/update the organizer information.
- add/delete/update the user information.
- add/delete/update events.
- Set images for front end of website.

Capabilities of Organizer:
- Create/Manage events.
- Update own profile.
- View users for events.

Capabilities of User:
- Update own profile.
- Search for events.
- Register for events.
- View booking history.

2.6 **Risk Assessment and Management**

Risk: Service interruptions.
Mitigation: 24/7 server maintenance.

Risk: Fraud in registration using fake payment details.
Mitigation: Using up to date security techniques to overcome the fraudulent activities.
3 Project Requirements

3.1 Identification of Requirements

<GSU-GSU Event Portal_FA-2017 profile- 01 >
This requirement allows us to view user details and also update and delete. These operations are done and saved in database so that they can be retrieved any time.

<GSU-GSU Event Portal_FA-2017 payment- 01 >
This requirement allows us to use details provided by user for payment and go through the transaction successfully.

3.2 Operations, Administration, Maintenance and Provisioning (OAM&P)
3.3 Security and Fraud Prevention

Security and fraud prevention is taken care by admin. Admin has access to user log tables. So the admin can assess what user is doing on website and how long he is spending on website.

We are also using a feature called One Time Password, in which a 6 digit unique code will be sent to user phone number and email. So that user can be verified and his details will be added to database only when verification is successful.

3.4 Release and Transition Plan

- Buy a domain name and maintain DNS service.
- Functional testing of the website and make sure everything works.
- Backup data periodically.
- Update the website with newly added functionalities when there is minimum traffic.

4 Screenshots

Home page of website:
Results page based on search by user:

Selected Event details and register page:
Login page for admin, organizer and user:

SignUp Page:
Forgot Password Page:

One Time Password Page:
User Home Page:

User history Page:
User Profile Page:

Create Event Page:
Organizer Manage Events Page:

<table>
<thead>
<tr>
<th>event_id</th>
<th>event_name</th>
<th>description</th>
<th>event_type</th>
<th>start_date</th>
<th>end_date</th>
<th>location</th>
<th>user_id</th>
<th>seats</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delete</td>
<td>Chicago Dancing Event</td>
<td>Great opportunity to learn different types of dances. Limited seats. Hurry Up!</td>
<td>Dance</td>
<td>2017-12-26</td>
<td>2017-12-27</td>
<td>New York, NY, United States</td>
<td>1014</td>
<td>47</td>
</tr>
<tr>
<td>Delete</td>
<td>IT Seminar</td>
<td>For cloud management.</td>
<td>Technical</td>
<td>2017-12-14</td>
<td>2017-12-22</td>
<td>1014</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>Delete</td>
<td>Seminar</td>
<td>Machine learning</td>
<td>Technical</td>
<td>2017-12-10</td>
<td>2017-12-29</td>
<td>633 N St Clair St, Chicago, IL, United States</td>
<td>1014</td>
<td>30</td>
</tr>
<tr>
<td>Delete</td>
<td>Music Event</td>
<td>Singing Songs</td>
<td>Music</td>
<td>2017-12-16</td>
<td>2017-12-29</td>
<td>63 West 35th Street, New York, NY, United States</td>
<td>1014</td>
<td>28</td>
</tr>
<tr>
<td>Delete</td>
<td>Music Event 2</td>
<td>Dance and sing</td>
<td>Music</td>
<td>2017-12-18</td>
<td>2017-12-22</td>
<td>Trump Tower, 5th Avenue, Manhattan, New York, NY, United States</td>
<td>1014</td>
<td>30</td>
</tr>
<tr>
<td>Delete</td>
<td>Music Festival</td>
<td>Come have fun with music.</td>
<td>Music</td>
<td>2017-12-18</td>
<td>2017-12-26</td>
<td>New York, NY, United States</td>
<td>1014</td>
<td>75</td>
</tr>
<tr>
<td>Delete</td>
<td>Sports event</td>
<td>sports description</td>
<td>Sports</td>
<td>2017-12-26</td>
<td>2017-12-26</td>
<td>New York, NY, United States</td>
<td>1014</td>
<td>60</td>
</tr>
</tbody>
</table>

Admin Managing Event types:
Admin Setting Images for Home Page:

Emails and SMS generated by application:
Code for Registration!

Please use this code to register in GSU event portal: 143416

Please use this code to register in GSU event portal: 550943

Click here to Reply or Forward

Event Registration Confirmation.

Thank you for transacting with us. Please find attached details of your event.
Database model:

5 Internal/external Interface Impacts and Specification

No Impacts

6 Design Units Impacts

6.1 Functional Overview

➢ Users, Organizers and admin are three key users for this application.
➢ Admin plays an important role of controlling each and everything on the website.
➢ Organizer can manage the events and users who are registered for his event.
➢ User can search and register for event.
➢ Keeping users and organizers up to date on information is the key role in making event successful which is done using email and SMS services.
6.2 Requirements

Software Requirements:
- Microsoft visual studio 2015.
- Microsoft SQL Server Developer 2016.

Hardware Requirements:
- Processor: Intel dual core or above
- Processor Speed: 1.0 GHZ or above
- RAM: 2 GB RAM or above
- Hard Disk: 20 GB hard disk or above
- Platform: Windows, Mac, Linux

7 Acknowledgements
- I would like to thank Dr. Soon Ok Park for her continuous support and guidance throughout the project development and all the people who supported in this great journey.
- I would like to thank Twilio Services and Google Services for their 24/7 available services, which makes the website more efficient.
8 References


