

CSE211 Web Programming, Fall Semester 25/26
Final Course Project

Group04

Members:	ID:	Program:
Omar Khalifa	223101614	CE
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Executive summary

EventsX Website will provide users the capability to view upcoming events, search for events based on the category name, event date, and location, register for events using interactive forms, calculate the event related budget, and view updated details about the event. This project focuses on functionality, usability, and compliance with current web standards.

The development included a proper planning phase where a website map, logical folder structuring, as well as wireframing was done. Organizing all the project files as in the requirements, where distinct folders were created with unique names such as HTML pages, CSS files, JavaScript files, images, as well as server scripts.

All the web pages have been written in HTML5 and have been organized in a way consistent with proper nesting, indentation, and accessibility. All the pages contain all the required elements: a header, Navigation Bar, Breadcrumb, and a footer. The required meta tags, titles, alt text for the images, and adequate comments have been included.

The entire website design was done using some external CSS3 files, with a dominant focus on Flexbox for designing the layout of the website. Techniques for designing a website to be responsive have also been used in order to create a smooth effect on different screen sizes, such as for mobile devices and desktop computers. A github repository by user “Saboo24” has been an inspiration for the design and interactivity of EventsX website.

Client side features were developed using vanilla JavaScript (ES6). JavaScript was used for DOM manipulation, event handling, form validation, filtering and searching event data, and implementing an interactive budget calculator. ES6 classes implemented object oriented programming concepts, while dynamic content updates were handled to enhance user experience.

PHP was used as a backend technology in the registration form data process because of its event data. This backend example explains how forms on the client side interact with backend functionalities using GET, or POST methods.

Through validation and testing, quality and reliability were guaranteed. All HTML pages were validated using the W3C Markup Validator, while validation of CSS, JavaScript, and PHP files was done using other tools. Screenshots of the validation result were taken, and errors/warnings were resolved manually. Cross browser compatibility testing was done too, to confirm that the layout, functionality, and performance are all good across web browsers.

During the project making, AI tools were used in a supportive way for code formatting, clarification of requirements, debugging help, error handling, and documentation guidance. These tools were utilized to assist in understanding and to keep things organized but did dictate control of any implementation details or decisions of the development team. More details about AI usage is in appendix A.

References

GitHub Repository: Hamzaoui, A. [Saboo24]. (2024). Portfolio3: *Fully responsive personal portfolio website* [Source code]. GitHub.

<https://github.com/Saboo24/portofolio3>

Data Collection Sources:

Events.com. (n.d.). *Discover events*. <https://discover.events.com/> The Events Calendar. (n.d.).

The Events Calendar: WordPress event management.

<https://theeventscalendar.com/>

Appendix A - AI Assistance Acknowledgment

Artificial intelligence tools were used in a limited and supportive role during this project. These tools helped with code formatting, clarification of technical requirements, debugging explanations, and guidance on report structure. All coding, design decisions, and documentation were completed by the project team. AI tools were used only to help in understanding and organization, not to generate final implementations.

- Gemini (Google): Assisted in interpreting project specifications and provided a plan for the documentation and report structure.
- Claude (Anthropic): Served as a technical aid for identifying logic errors (debugging) and maintaining standardized code syntax and formatting. Also in understanding JavaScript, Backend in PHP and how to tackle the project.
- Grammarly: Used to refine the final report by correcting punctuation, enhancing grammatical accuracy, and improving overall writing clarity and flow.

Appendix B - Team Contribution Breakdown

Samaa Mohamed 223101629

4.3.5.1. HTML5 Validation

4.3.1. HTML Specifications

- index.html Page

- budget-calculator.html Page

4.3.2. CSS Specifications Help if Needed

4.3.3. JavaScript Specifications Main

4.3.4. Universal Page Requirements B) Consistent Navigation Structure

4.2. Web Project Logical Folder Structure

6. Written Report, Appendix B: Team Contribution Breakdown and the rest of the report

Saga Taha 223104728

Ai_Documentation_Report

4.3.5.2. Browser Compatibility Testing

4.3.1. HTML Specifications

- events.html Page

- thank-you.html Page

4.3.2. CSS Specifications Help if Needed

4.3.3. JavaScript Specifications Main

4.3.4. Universal Page Requirements C) Code Quality Standards

6. Written Report, Appendix C - Additional Visualisations

Omar Khalifa 223101614

4.3.1. HTML Specifications

- contact.html Page
- about.html Page
- Multimedia Resources

4.3.2. CSS Specifications Main

4.3.3. JavaScript Specifications Help if Needed

4.1. 3- Website Map

Mohamed Samir 223104766

4.3.6. Backend (Bonus)

4.3.1. HTML Specifications

- registration.html Page

4.3.3. JavaScript Specifications Help if Needed

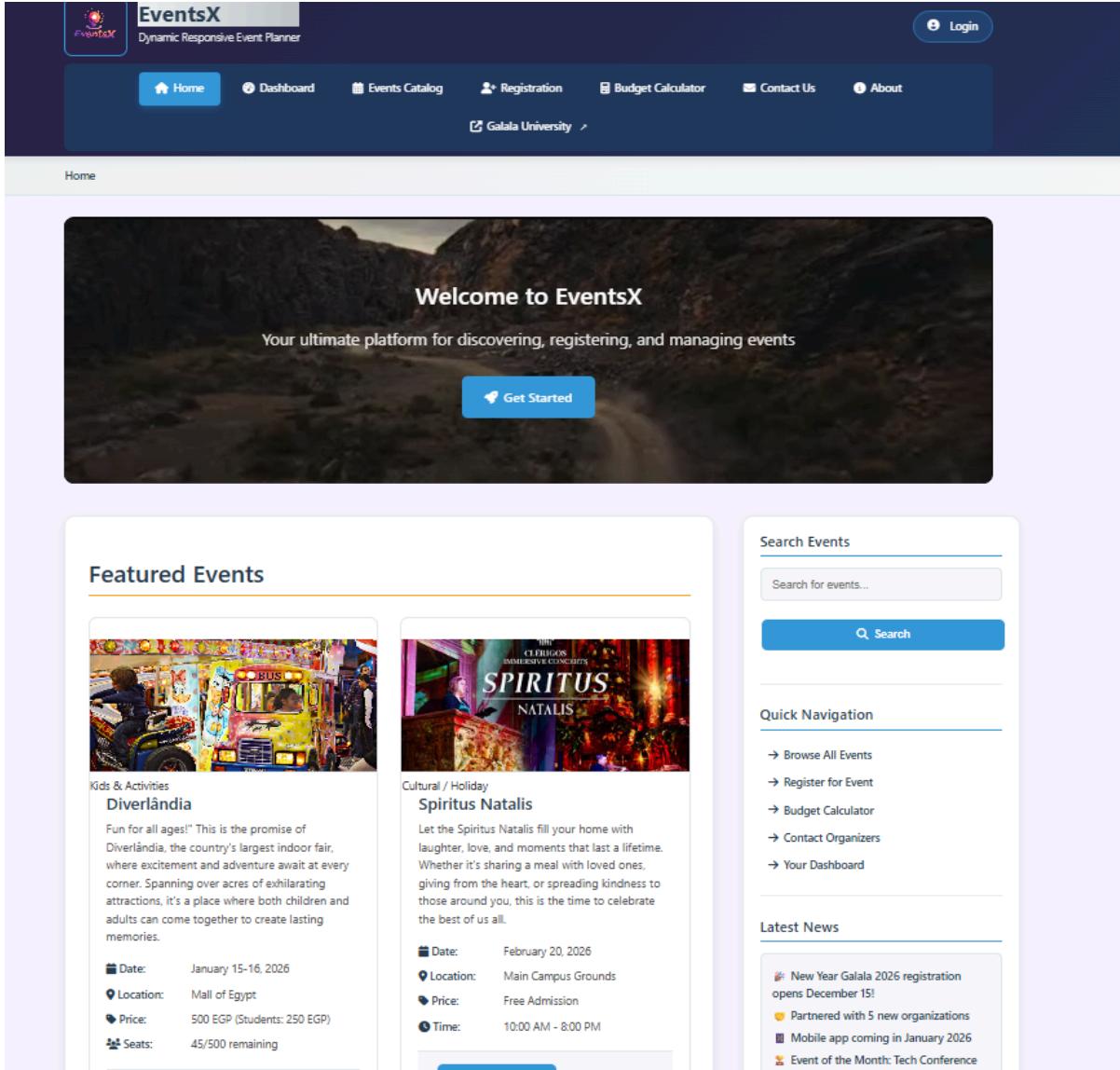
4.3.4. Universal Page Requirements A) HTML5 Semantic Structure

6. Written Report, Appendix A: AI Assistance Acknowledgement

Appendix C - Additional Visualizations

Website

Home page



The screenshot shows the homepage of the EventsX website. At the top, there's a dark header bar with the EventsX logo, a "Login" button, and navigation links for Home, Dashboard, Events Catalog, Registration, Budget Calculator, Contact Us, and About. Below the header is a banner featuring a scenic mountain landscape with the text "Welcome to EventsX" and "Your ultimate platform for discovering, registering, and managing events". A blue "Get Started" button is prominently displayed. The main content area is divided into two sections: "Featured Events" and "Search Events". The "Featured Events" section displays two event cards: "Diverlândia" (Kids & Activities) and "Spiritus Natalis" (Cultural / Holiday). Each card includes a thumbnail image, the event name, a brief description, and detailed information like date, location, price, and time. The "Search Events" section includes a search bar, a "Search" button, and a "Quick Navigation" sidebar with links to browse all events, register for events, use the budget calculator, contact organizers, and access the dashboard.



Kids & Activities
Diverlândia 2

Get ready for the ultimate thrill ride at Diverlândia 2, where fun knows no limits! Dive into a world of excitement, wonder, and jaw-dropping attractions designed to give you the adventure of a lifetime.

Date: March 10, 2026
Location: University Convention Center
Price: 100 EGP (Students Free)
Companies: 50+ Participating

[View Details](#) [Register Now](#)

Get advanced event management features, priority support, and exclusive benefits!

[Learn More](#)

Upcoming Deadlines

Tech Conference: 4d 0h 5m 32s
Early Bird Discount: Event Started
Career Fair: 53d 0h 5m 32s

Latest Announcements

New Event Added: AI Workshop Series
Starting January 2026, join our comprehensive AI workshop series covering machine learning, deep learning, and practical AI applications. Perfect for beginners and experienced developers alike.

December 5, 2025 New [Learn More](#)

Early Bird Registration Now Open
Register before December 31, 2025 for 20% discount on all paid events. Limited spots available for early registrants. Don't miss this opportunity to save on your favorite events!

December 1, 2025 Limited Time [Register Now](#)

Events page

Events Catalog

Explore and discover amazing events tailored just for you

Available Events List						
Event	Category	Date & Time	Location	Cost (EGP)	Preview	Actions
Salt & Pepper Supper Club	Food	Jan 3, 2026, 10:00 PM	London	65.00		Register
Spiritus Natalis	Music / Culture	Jan 1, 2026, 9:00 PM	Porto	70.00		Register
Carrossel Veneziano	Leisure	Jan 1, 2026, 12:00 AM	Cascais	40.00		Register
Diverlândia	Business	Jan 1, 2026, 3:00 PM	Lisbon	150.00		Register
Queen Sheeks Jamaican Pop-Up	Food	Jan 2, 2026, 12:00 PM	London	65.00		Register
Diverlândia 2	Business	Jan 6, 2026, 2:00 PM	Lisbon	220.00		Register
Carmen Miranda 2	Culture	Jan 7, 2026, 7:00 PM	Lisbon	90.00		Register
Jonas & Lander 2	Music	Jan 8, 2026, 9:00 PM	Lisbon	100.00		Register
Ano Novo no Lux 2	Leisure	Jan 9, 2026, 11:00 PM	Lisbon	150.00		Register
Spanish Beginner Course	Business	Jan 19, 2026, 7:30 PM	London	200.00		Register
Italian Beginner Course A1	Business	Jan 20, 2026, 6:00 PM	London	220.00		Register
The Gladwin Brothers' Burns Night	Food / Nightlife	Jan 24, 2026, 8:00 PM	London	75.00		Register
The Ultimate Bottomless Tea	Food	Jan 31, 2025, 5:00 PM	London	95.00		Register

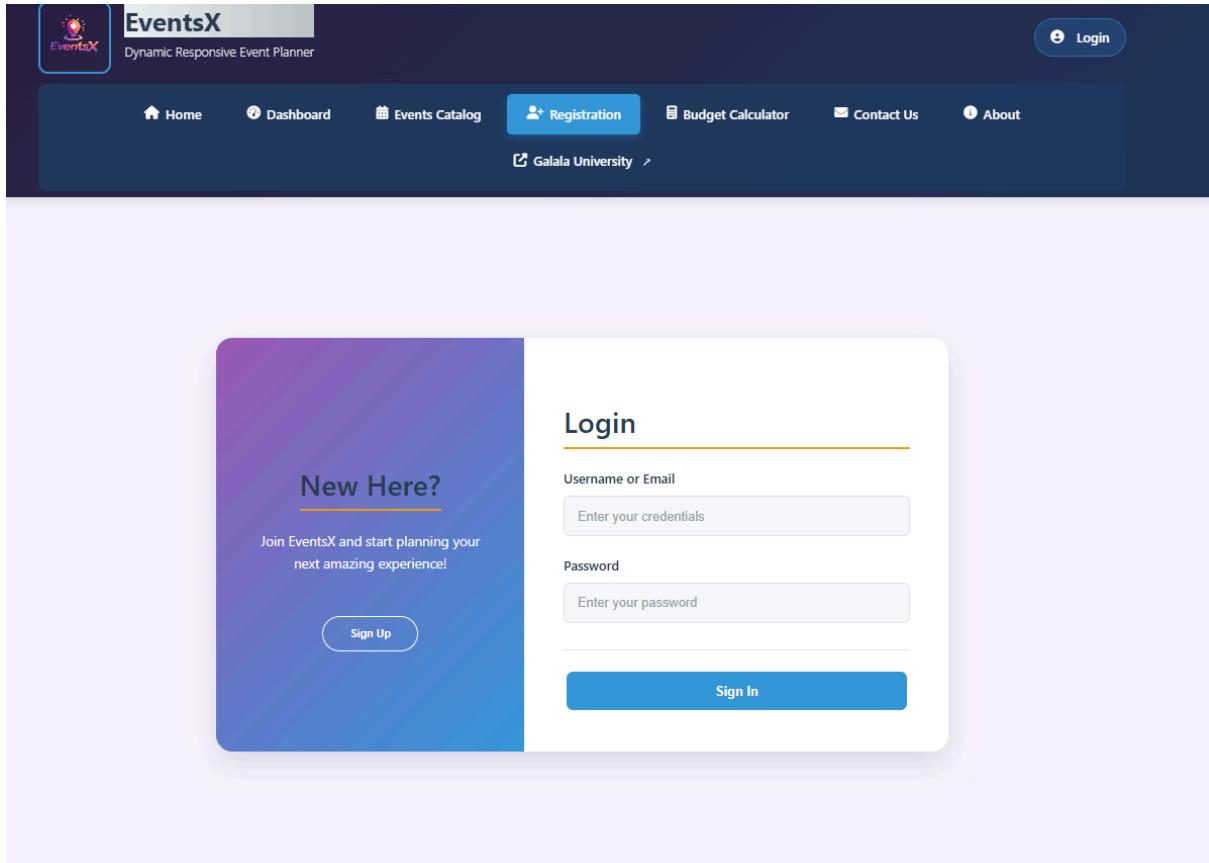
Filters

Search

Category

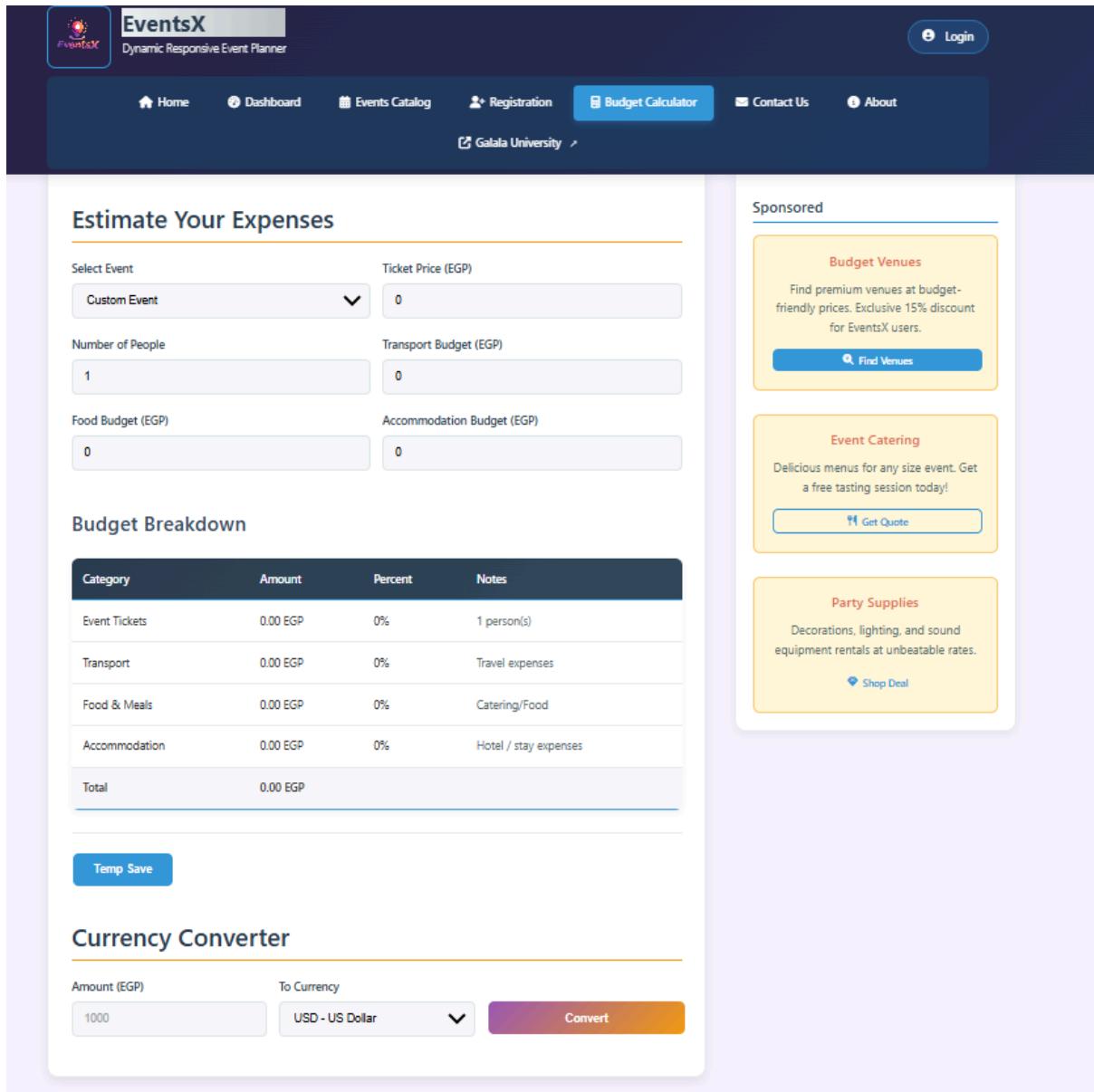
Sort By Price

Registration page



The screenshot shows a web application interface for 'EventsX' with a dark blue header bar. The header includes the 'EventsX' logo, the text 'Dynamic Responsive Event Planner', a 'Login' button, and a navigation menu with links for Home, Dashboard, Events Catalog, Registration (which is highlighted in blue), Budget Calculator, Contact Us, and About. Below the header, there is a breadcrumb trail indicating the user is at 'Galala University >'. The main content area features a large purple-to-blue gradient box on the left containing a 'New Here?' section with a 'Sign Up' button, and a white 'Login' form on the right with fields for 'Username or Email' and 'Password', and a 'Sign In' button.

Budget-calculator page



The screenshot displays the EventsX dynamic responsive event planner interface, specifically the budget calculator section. The top navigation bar includes links for Home, Dashboard, Events Catalog, Registration, Budget Calculator (which is highlighted in blue), Contact Us, and About. A logo for Galala University is also present in the top right.

Estimate Your Expenses

Select Event	Ticket Price (EGP)
Custom Event	0
Number of People	Transport Budget (EGP)
1	0
Food Budget (EGP)	Accommodation Budget (EGP)
0	0

Budget Breakdown

Category	Amount	Percent	Notes
Event Tickets	0.00 EGP	0%	1 person(s)
Transport	0.00 EGP	0%	Travel expenses
Food & Meals	0.00 EGP	0%	Catering/Food
Accommodation	0.00 EGP	0%	Hotel / stay expenses
Total	0.00 EGP		

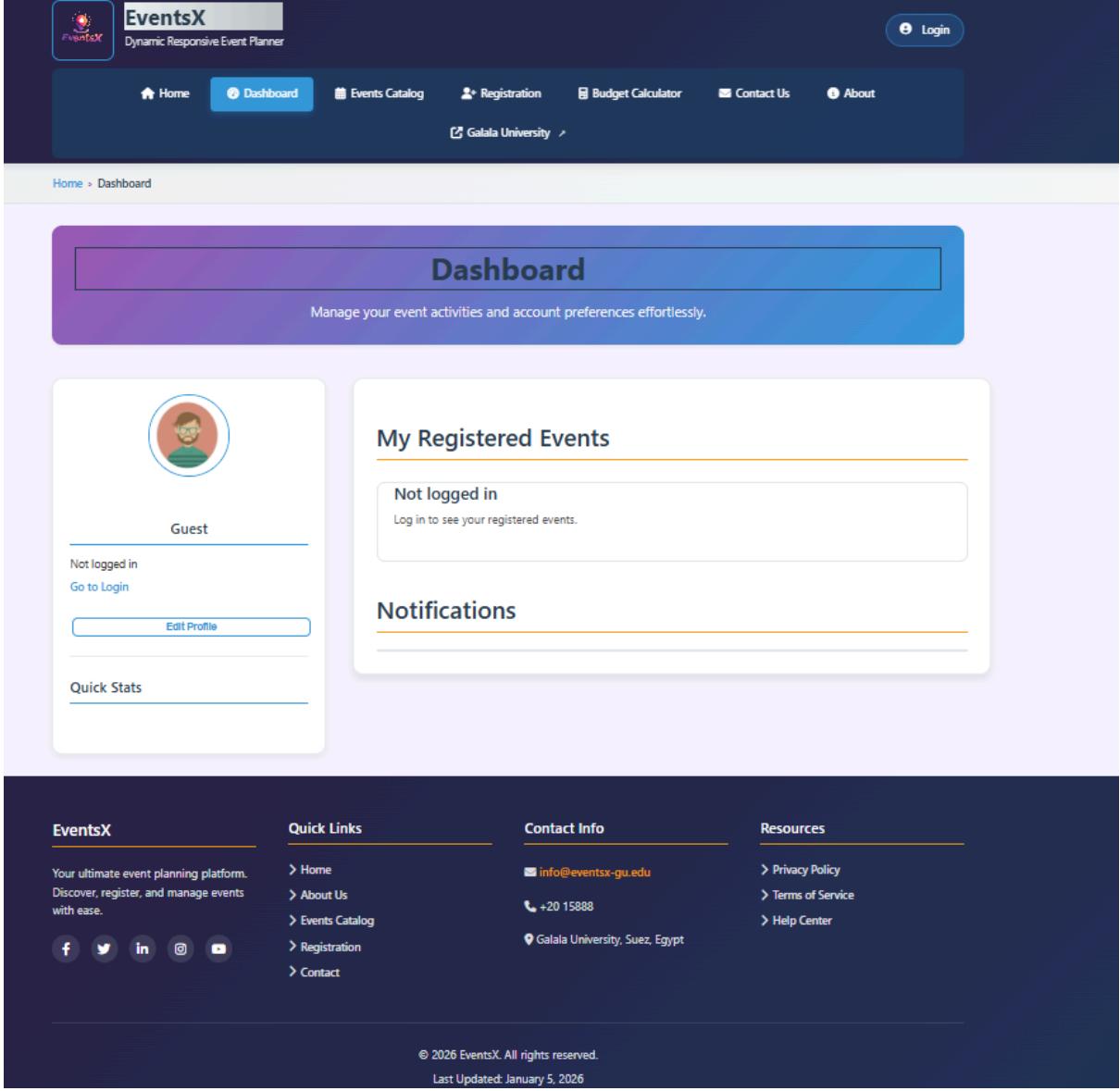
Currency Converter

Amount (EGP) To Currency Convert

Sponsored

- Budget Venues**
Find premium venues at budget-friendly prices. Exclusive 15% discount for EventsX users.
[Find Venues](#)
- Event Catering**
Delicious menus for any size event. Get a free tasting session today!
[Get Quote](#)
- Party Supplies**
Decorations, lighting, and sound equipment rentals at unbeatable rates.
[Shop Deal](#)

Dashboard page



The screenshot displays the EventsX dashboard. At the top, there's a header bar with the EventsX logo, a sub-header "Dynamic Responsive Event Planner", and a "Login" button. Below the header are navigation links: Home, Dashboard (which is highlighted in blue), Events Catalog, Registration, Budget Calculator, Contact Us, and About. A sub-navigation menu for "Galala University" is also present. The main content area has a purple header bar with the word "Dashboard". Below it, a message says "Manage your event activities and account preferences effortlessly.". On the left, there's a sidebar for a "Guest" user, showing a placeholder profile picture, a "Not logged in" status, a "Go to Login" link, and an "Edit Profile" button. The main content area features a section titled "My Registered Events" with a message "Not logged in" and a link to log in. There's also a "Notifications" section which is currently empty. The footer contains four sections: "EventsX" (with a brief description and social media icons for Facebook, Twitter, LinkedIn, Instagram, and YouTube), "Quick Links" (with links to Home, About Us, Events Catalog, Registration, and Contact), "Contact Info" (with email info@eventsx-gu.edu, phone +20 15888, and address Galala University, Suez, Egypt), and "Resources" (with links to Privacy Policy, Terms of Service, and Help Center). At the bottom of the footer, there's a copyright notice: "© 2026 EventsX. All rights reserved. Last Updated: January 5, 2026".

About page

Home > About Us

About EventsX

Revolutionizing event planning and management with user-centric digital tools.

Our Mission

"To create seamless, accessible, and memorable event experiences through innovative technology and user-centric design."

- EventsX Team

EventsX was born from a simple observation: event planning should be exciting, not stressful. We're dedicated to transforming how organizations manage their events, making the process smoother for both organizers and attendees.

Our Team

Meet the dedicated team behind EventsX and their contributions:

Samaa Mohamed (223101629)

Team Leader

- HTML5 Validation & Specifications (Index, Budget)
- JavaScript Specifications (Main Logic)
- Universal Page Requirements (Consistent Navigation)
- Web Project Logical Folder Structure
- Written Report (Appendix B: Team Contribution)

Saga Taha (223104728)

Developer

- Browser Compatibility Testing
- HTML Specifications (Events, Thank-you)
- JavaScript Specifications (Main Logic)
- Universal Page Requirements (Code Quality)
- Written Report (Appendix C: Additional Visualisations)

Omar Khalifa (223101614)

Designer & Developer

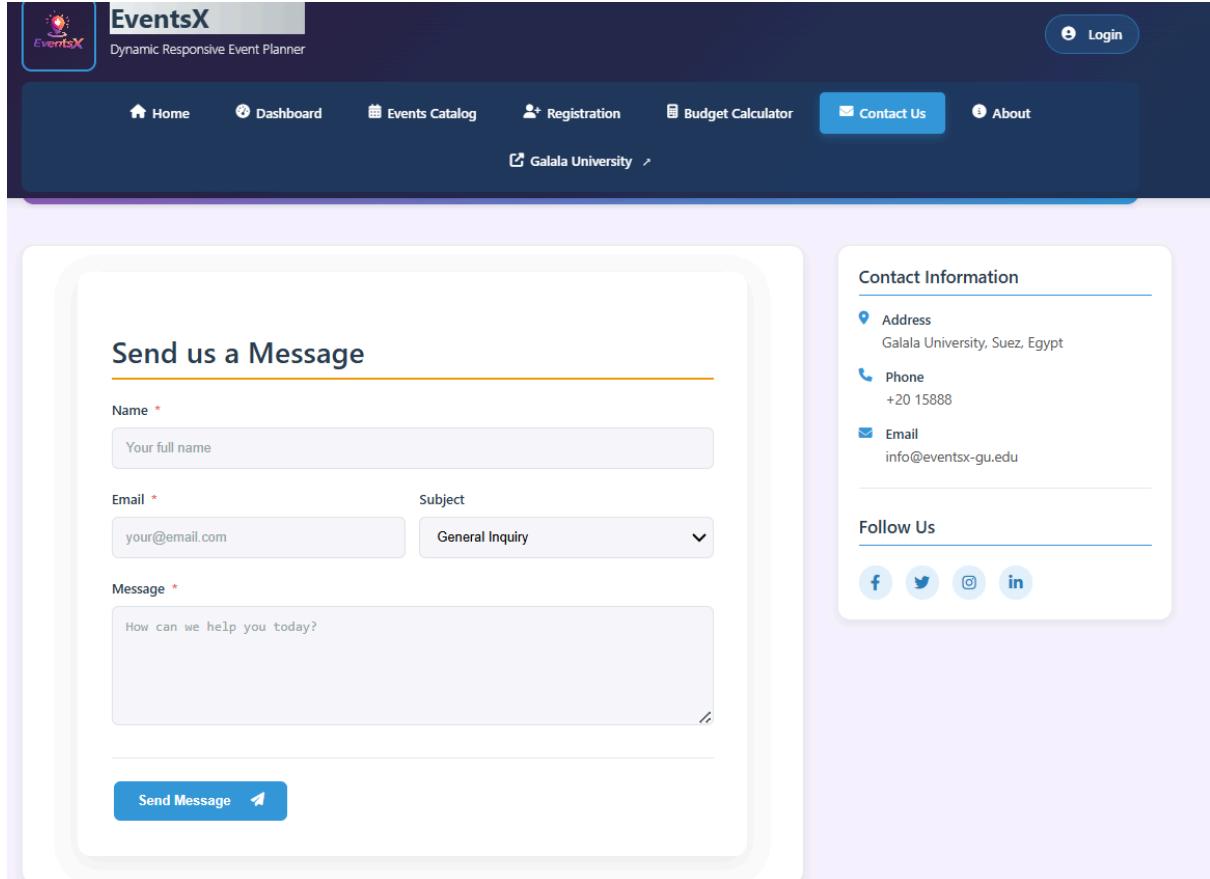
- HTML Specifications (Contact, About)
- Multimedia Resources Management
- CSS Specifications (Main Design)
- 3-Website Map Design
- Written Report (Content & Structure)

Mohamed Samir (223104766)

Backend Specialist

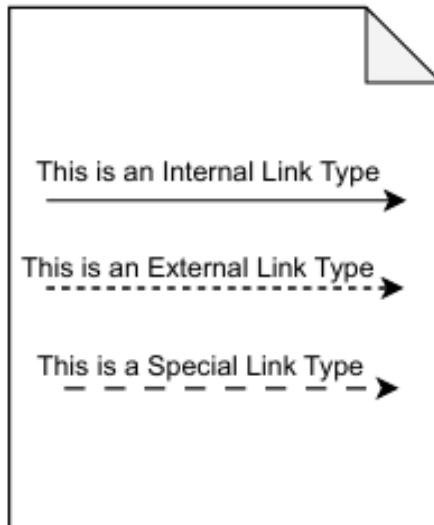
- Backend Implementation (Bonus)
- HTML Specifications (Registration)
- Universal Page Requirements (Semantic Structure)
- Written Report (Appendix A: AI Acknowledgement)

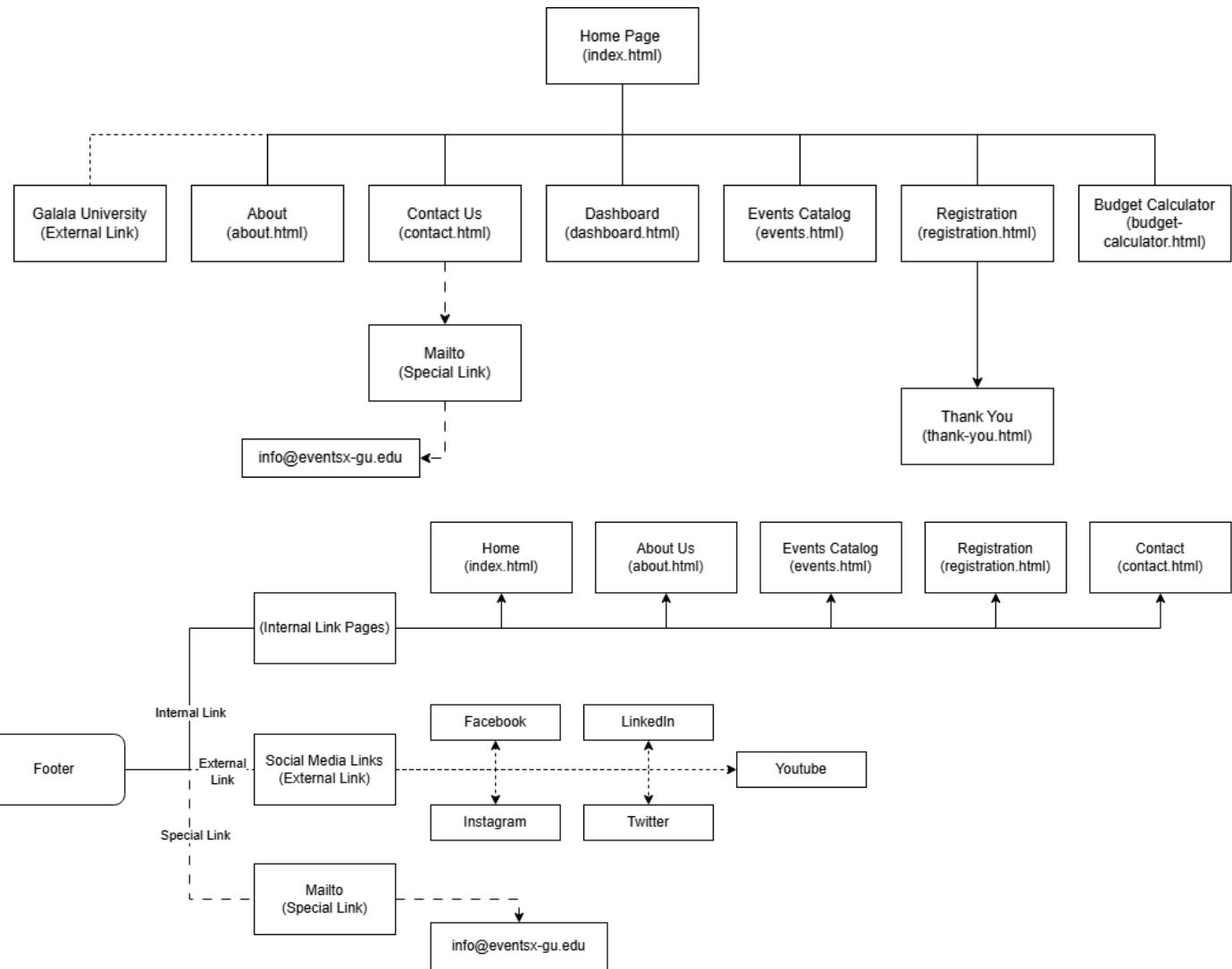
Contact us page



The screenshot shows the 'Contact Us' section of the EventsX platform. At the top, there's a navigation bar with links for Home, Dashboard, Events Catalog, Registration, Budget Calculator, Contact Us (which is highlighted in blue), and About. Below the navigation, it says 'Galala University'. The main form area has a title 'Send us a Message'. It includes fields for Name (with placeholder 'Your full name'), Email (placeholder 'your@email.com'), Subject (dropdown menu showing 'General Inquiry'), and a large text area for Message (placeholder 'How can we help you today?'). A 'Send Message' button with a paper airplane icon is at the bottom. To the right, there's a sidebar titled 'Contact Information' with address, phone number, and email details, and another titled 'Follow Us' with social media icons for Facebook, Twitter, Instagram, and LinkedIn.

Map





Visual Structure

Website Map

Folder Structure

```
— Group04_CSE211_FinalProject/
    ├── Part1_Performance_Analysis/
    │   └── Performance_Analysis_Report
    ├── Part2_Website_Project/
    │   ├── index.html
    │   ├── pages/
    │   │   ├── about.html
    │   │   ├── budget-calculator.html
    │   │   ├── contact.html
    │   │   ├── dashboard.html
    │   │   ├── events.html
    │   │   ├── registration.html
    │   │   ├── thank-you.html
    │   │   └── css/
    │   │       ├── contact.css
    │   │       ├── dashboard.css
    │   │       ├── index.css
    │   │       ├── main_style.css
    │   │       ├── registration.css
    │   │       └── thank-you.css
    │   └── images/
    │       └── events/
    │           ├── event1_salt_pepper_supper_club.jpeg
    │           ├── event2_spiritus_natalis.jpeg
    │           ├── event3_carrossel_veneziano.jpeg
    │           ├── event4_Diverlândia.jpg
    │           ├── event5_carmen_miranda.jpg
    │           ├── event6_jonas_lander.jpg
    │           ├── event7_ano_novo_no_lux.jpg
    │           └── event8_the_great_mona.jpeg
```

```
|   |   |   |   └── event9_concerto_de_ano_novo.jpeg
|   |   |   |   └── event10_queen_sheeks_jamaican_popup.avif
|   |   |   |   └── event11_diverlandia_2.jpg
|   |   |   |   └── event12_carmen_miranda_2.jpg
|   |   |   |   └── event13_Jonas_Lander.jpg
|   |   |   |   └── event14_ano_novo_no_lux2.jpg
|   |   |   |   └── event15_spanish_beginner_course.png
|   |   |   |   └── event16_italian_beginner_course_a1.jpg
|   |   |   |   └── event17_burns_night.webp
|   |   |   |   └── event18_bottomless_afternoon_tea.jpg
|   |   |   |   └── event19_pizza_making_class.jpeg
|   |   |   |   └── event20_plant_based_food_fest.jpg
|   |   |   └── event21_shanghai_lounge.jpeg
|   |   └── hero.png
|   |   └── logo.png
|   |   └── profile.png
|   |   └── validation_ss/
|   |   └── registration.html
|   └── scripts/
|       └── auth.js
|       └── budget-calculator.js
|       └── events.js
|       └── main.js
|           └── thank-you.js
|           └── thank-you.html
|       └── videos/
|           └── hero.mp4
└── Part3_Documentation/
    └── CSE211_FinalProject_Group[04]_Report
        └── Website_Map.pdf
        └── Validation_Report.pdf
        └── Ai_Tools_Usage_Documentation.pdf
        └── Browser_Testing_Report.pdf
        └── README.md
```