

CSE211 Web Programming

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Web Design Documentation

EventsX – Dynamic Responsive Event Planner Web Application

Group 13

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1. Introduction

This document presents the web design planning and structure of the *EventsX* web application.

The purpose of this project is to design and implement a dynamic and responsive event planner website using HTML5, CSS3, and JavaScript.

The website allows users to browse upcoming events, register for events, and calculate event-related budgets in an interactive and user-friendly way.

2. Website Purpose and Goals

The main goals of the EventsX web application are:

- To display upcoming events in a clear and organized layout.
- To allow users to register for events using a registration form.
- To provide a budget calculator for estimating event-related costs.
- To demonstrate the use of modern web technologies such as HTML5, CSS3, and JavaScript.
- To apply responsive web design principles using Flexbox.

3. Target Audience

The target audience for the EventsX website includes:

- University students interested in events and activities.
- Young professionals looking for conferences, concerts, or meetups.
- Users aged between 18 and 35.
- People who prefer a simple and responsive web interface for browsing events.

4. Technologies Used

The following technologies were used to develop the EventsX web application:

- **HTML5**: Used to create the semantic structure of all web pages.
- **CSS3**: Used for styling, layout design, Flexbox positioning, animations, and responsiveness.
- **JavaScript (ES6)**: Used for:
 - Dynamic rendering of event cards
 - Client-side form validation
 - Budget calculation
 - DOM manipulation and event handling

No external JavaScript frameworks (such as jQuery or React) were used in this project.

5. Website Pages Description

The EventsX website consists of the following pages:

- **index.html**

The homepage that introduces the website and displays featured events.

- **events.html**

Displays a list or table of upcoming events with details such as name, date, location, and price.

- **registration.html**

Contains a registration form that allows users to sign up for events with client-side validation.

- **thank-you.html**

Displays a confirmation message after successful event registration.

- **budget-calculator.html**

Allows users to calculate the total cost of attending an event, including tickets, travel, and accommodation.

- **about.html**

Provides information about the website and its purpose.

- **contact.html**

Displays contact details and social media links.

6. Design Decisions

Several design decisions were made to enhance usability and accessibility:

- Flexbox was used to create responsive layouts across different screen sizes.
- A consistent color palette and typography were applied to all pages.
- Navigation menus and breadcrumb navigation were added for better user experience.
- Forms include labels and validation to ensure accessibility and correctness.
- The website layout adapts smoothly to mobile, tablet, and desktop screens.

7. Conclusion

The EventsX web application demonstrates the application of web design principles and front-end development techniques.

The project successfully integrates structured HTML5 content, modern CSS styling, and interactive JavaScript functionality to create a responsive and user-friendly event planner website.

8. Website Map

