# CSE211 Web Programming - Fall 2025-2026

## Final Course Project: AI Tools Usage Documentation

Group Number: **11**
Team Members:

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**Submission Date:** 1/6/2026

## 1. Overview of AI Utilization

This document details the use of Generative AI tools (LLMs) during the development of the *EventsX* web application.

Our team utilized AI tools primarily for:

- **Learning & Concept Clarification:** Understanding complex CSS Flexbox layouts and JavaScript ES6 class structures.
- **Code Optimization:** Refactoring functions for better performance and readability.
- **Debugging:** Identifying syntax errors and logic flaws in our validation scripts.
- **Content Generation:** Generating placeholder text (Lorem Ipsum alternatives) for event descriptions.

Declaration:
All AI-generated suggestions were reviewed, tested, and modified by the team members. No code was copied blindly. We accept full responsibility for the logic and functionality of the submitted code.

## 2. Tools Inventory

The following tools were utilized during the project lifecycle:

| Tool Name | Version / Model | Primary Purpose |
|-----------|-----------------|-----------------|
| **ChatGPT** | GPT-4o / GPT-3.5 | Logic explanation, debugging, and CSS styling suggestions. |
| **GitHub Copilot** | Latest | Autocomplete suggestions and boilerplate code generation. |
| **Gemini** | 3 Pro | Refinement of documentation and report structuring. |

## 3. Detailed Usage Log

This section explicitly documents specific instances where AI assistance was sought, the prompts used, and how the output was integrated.

| Component / File | AI Tool | Purpose & Prompt Summary | Human Verification & Modification |
|------------------|---------|--------------------------|-----------------------------------|
| style.css / Flexbox | ChatGPT | **Prompt:** "How to center a div both vertically and horizontally using Flexbox?" | **Action:** Adopted the justify-content and align-items syntax but adjusted padding values to match our design wireframe. |
| scripts/main.js | Copilot | **Prompt:** (Code completion) Suggesting an event listener for the 'submit' button. | **Action:** Accepted the syntax but renamed variables to match our specific form ID (#registrationForm). |
| pages/events.html | ChatGPT | **Prompt:** "Generate a JSON array of 5 dummy events with dates and prices." | **Action:** Used the structure but replaced dummy text with realistic event names relevant to the university context. |
| scripts/budget.js | ChatGPT | **Prompt:** "Optimize this loop for calculating total budget." | **Action:** AI suggested reduce(). We implemented it and manually tested it against a manual calculation to |

| | | | ensure accuracy. |
|---|---|---|---|
| regex_check | ChatGPT | **Prompt:** "Regex for validating university email addresses." | **Action:** Modified the regex to specifically enforce our university domain requirements. |

## 5. Compliance Statement

We certify that:

1. The specific content listed above represents the extent of AI involvement in this project.
2. Every team member is capable of explaining, debugging, and modifying every line of code presented in this project, regardless of its origin.