

>> We are better

Skibidi Tech Website

INTERNET PROGRAMMING FINAL
TERM PROJECT

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Skibidi Tech Website Report

Outline of the Report

- ★ Introduction
- ★ Website Features and Functionalities
- ★ Screenshots of the Website
- ★ Key Challenges Faced During Development
- ★ Technologies, Techniques, and Tools Used
- ★ Conclusion

Description of the Website and Main Functionalities

Overview:

The Tech Team Website is a modern, dynamic, and responsive platform designed to showcase the activities, achievements, and team members of the Tech Team. It features interactive sections to engage visitors and provide them with essential information about the team's goals and accomplishments.

Core Functionalities:

1. Dynamic Achievements Section:

- Utilizes AJAX to fetch and display achievements from a JSON file dynamically.
- Provides a seamless user experience with visually consistent designs for each achievement.

2. Newsletter Subscription with Data Storage:

- Validates user emails using JavaScript to ensure proper format.
- Stores user email in cookies, localStorage, and sessionStorage for flexibility and persistence.

3. Interactive Team News Carousel:

- Displays updates in a visually appealing carousel format.
- Smooth navigation with left and right arrows for browsing news items.

4. Responsive Design:

- Adapts to various screen sizes using CSS media queries for a seamless user experience on desktops, tablets, and mobile devices.
- Description of the members in the about page will pop up when the cursor hovers on top of them.

5. About Page with Dynamic Team Information:

- Showcases team members with their roles and additional descriptions.
- Displays historical and achievement data in structured sections.

6. Embedded Media with an Iframe:

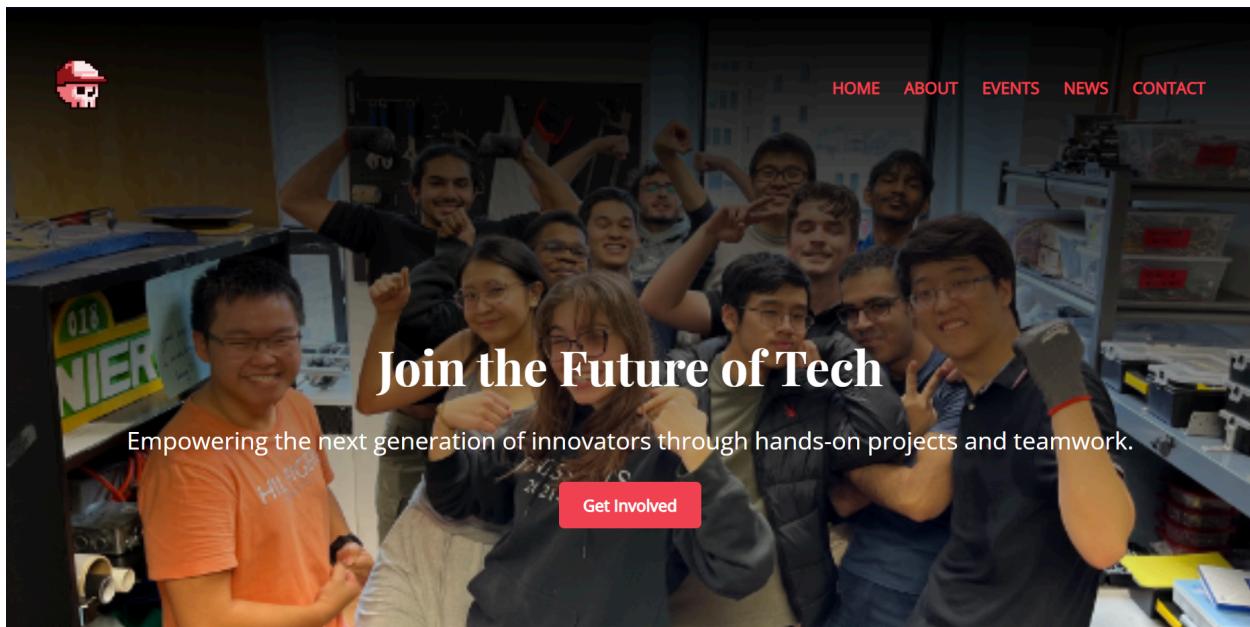
- Includes an embedded Youtube video (via an iframe) in the Media section to showcase last year's competition documentary.

Screenshots of the Website

Note: Include the following screenshots. If not available, capture them from your browser.

1. Homepage:

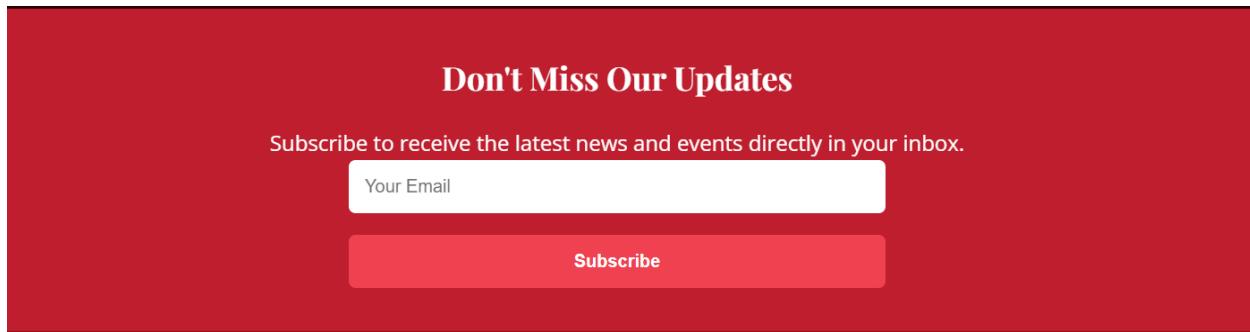
- Hero Section and Navigation Bar.



- Upcoming Events Section.

A screenshot of the "Upcoming Events" section. The section has a red header with the text "Upcoming Events" in white. Below the header are three event cards, each with a small image, a title, a brief description, and a red button. The first card is titled "Workshop I" and describes "Introduction to Robotics and Programming." The second card is titled "Hackathon" and describes "Compete and create innovative solutions." The third card is titled "Annual Showcase" and describes "Show off what you've built this year!" Each card has a red button at the bottom labeled "Learn More", "Register Now", or "View Details".

- o Newsletter Subscription Form.



2. Team News Carousel (before and after navigation).

Before:

The "Team News" section features a title "Team News" and a subtitle "Stay updated with the latest achievements and updates from our team." Below are three cards:

- Latest Project Release**: Shows a complex robotics project. Description: "Our team has successfully released a groundbreaking robotics project."
- Regional Competition**: Shows team members at a competition booth. Description: "We were awarded first place in the regional robotics competition!"
- New Members**: Shows two smiling team members. Description: "Welcome our newest team members joining us this semester."

After:

The "Team News" section features a title "Team News" and a subtitle "Stay updated with the latest achievements and updates from our team." Below are three cards:

- Regional Competition**: Shows team members at a competition booth. Description: "We were awarded first place in the regional robotics competition!"
- New Members**: Shows two smiling team members. Description: "Welcome our newest team members joining us this semester."
- New Website In Progress**: Shows a small green plant in a red pot. Description: "Skibidi Tech website members are making a new website for the competition!"

3. About Page:

- Team Members Section.

Meet Our Team



Dylan
Team Leader



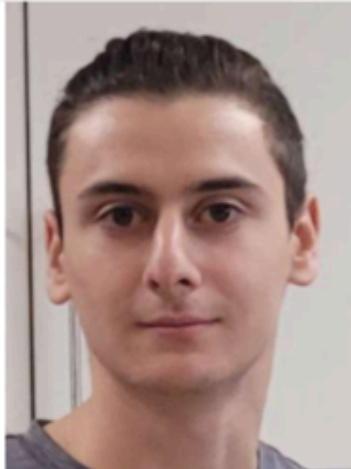
James
Software Developer



Lorena
Designer



Cristina
Film-Maker



Andrew
Bob the Builder



Brandon
Website Programmer

- Achievements Section (dynamically loaded content).

Our Achievements



Won Various Awards in Kryptik 2024 CRC
After months of hard work and dedication our efforts paid off !!



Skibidi Tech Place 2nd Overall
We did our best, we will work harder, we will be better!



Obtained 3rd Place in Website Design
3 is a lucky number and we accept it!

Key Challenges

- 1. Data Handling:**
 - Integrating cookies, localStorage, and sessionStorage for email storage required precise implementation to avoid redundancy and ensure compatibility.
- 2. Dynamic Content Loading:**
 - Loading achievements from a JSON file dynamically while maintaining consistent layout and responsive design.
- 3. Carousel Implementation:**
 - Creating a smooth and responsive carousel for the Team News section using jQuery, ensuring proper transitions and alignment on different devices.
- 4. Responsive Design Challenges:**
 - Achieving a consistent look and feel across various screen sizes required extensive testing and optimization of CSS media queries.
- 5. Debugging Overlapping Issues:**
 - Resolving style conflicts between sections to prevent overlapping elements.

Technologies, Techniques, and Tools Used

- 1. Languages:**
 - HTML5: For structuring the content.
 - CSS3: For styling and responsive design.
 - JavaScript: For interactivity, form validation, and dynamic content loading.
- 2. Frameworks/Libraries:**
 - jQuery: For implementing the news carousel.
- 3. Data Management:**
 - JSON: For storing and dynamically loading achievements.
- 4. Storage Mechanisms:**
 - Cookies: To store user data with an expiration mechanism.
 - LocalStorage and SessionStorage: For persistent and session-specific email storage.
- 5. Tools:**
 - Code Editor: Visual Studio Code (or any equivalent editor).
 - Browser Developer Tools: For debugging and responsive design testing.
 - Version Control: Git (optional).
 - Photo Editor: GIMP