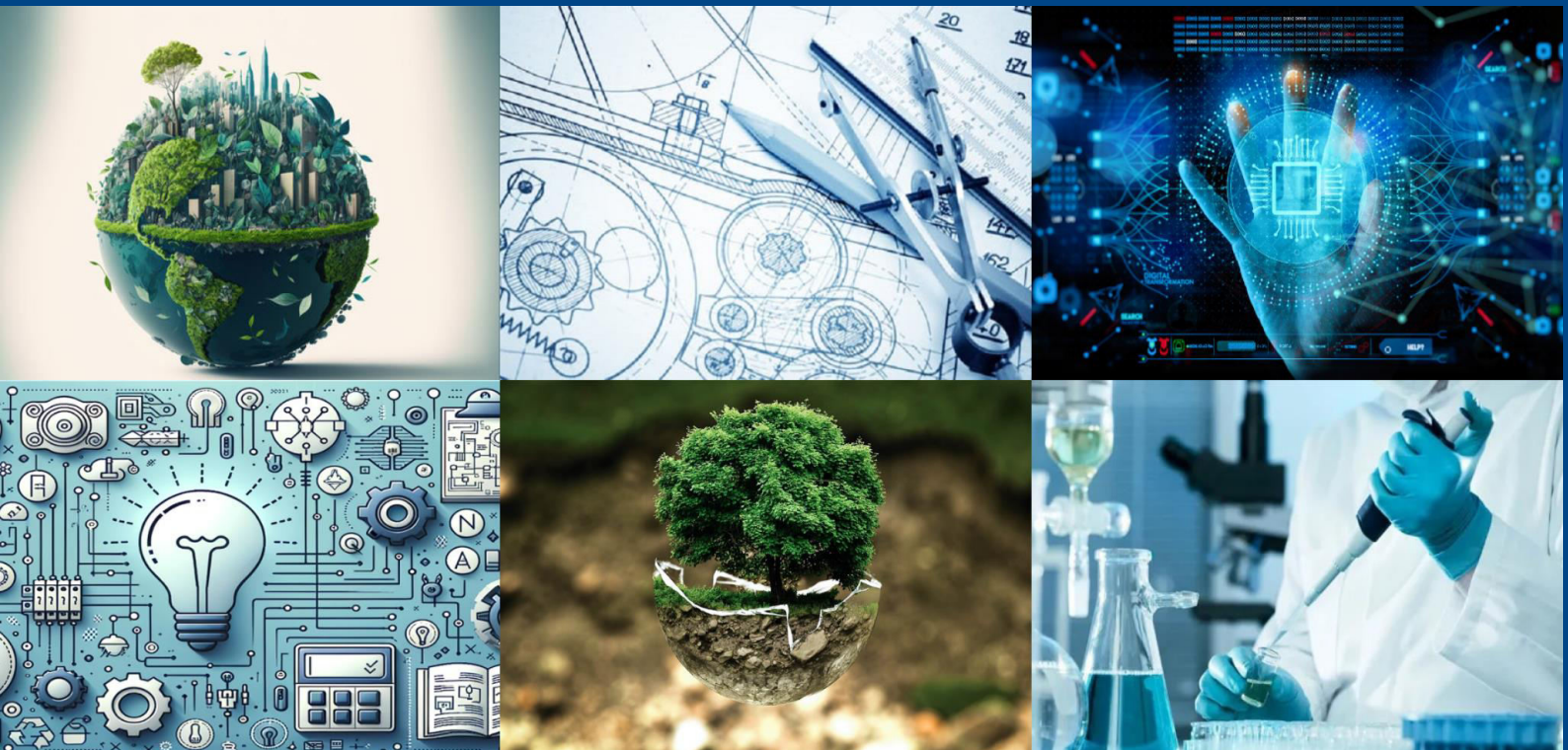




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Template Generator for College Events

Shreya Kale^{*1}, Komal Tintore^{*2}, Purva Tintore^{*3}, Ms.Nayan Bahirame^{*4}

Department of Computer Engineering, Jaywantrao Sawant Polytechnic, Pune, Maharashtra, India^{*1*2*3}

Professor, Department of Computer Engineering, Jaywantrao Sawant Polytechnic, Pune, Maharashtra, India^{*4}

ABSTRACT: The “JSPM College Event Template Generator” is an innovative web based project designed to facilitate the creation of visually appealing and context-appropriate templates for various college events. This website caters to the needs of college event organizers, and clubs, providing them with a tool to effortlessly design templates for greetings, welcome messages, fresher's parties, and other campus events. Built using the programming language html, CSS, embedded java script, Node js, Express js, the website offers a wide range of customizable templates, including posters, invitations, social media graphics, and banners. Users can select from various themes, color schemes, and fonts tailored to different events, ensuring a vibrant and engaging presentation. The application also includes features for adding college logos, event details, and photos, with easy drag-and-drop functionality.

KEYWORDS: Template Generator, Various Templates, Posters and Invitations, Events Management

I. INTRODUCTION

Organizing events in academic institutions requires effective planning, including the creation of visually appealing promotional materials such as posters, invitations, and banners. However, many event coordinators, student organizations, and faculty members face challenges due to limited design skills, time constraints, and dependency on third-party tools. To address these issues, this paper presents the JSPM College Event Template Generator, a web-based application designed to facilitate the seamless creation of customizable event templates.

The system is developed using HTML, CSS, JavaScript, Node.js, and Express.js, providing an intuitive and interactive user interface. It offers a range of pre-designed templates with customizable options, including theme selection, font and color adjustments, image uploads, and drag-and-drop functionality. This ensures that users can efficiently design event-related materials without requiring extensive graphic design expertise.

II. METHODOLOGY

The development of the JSPM College Event Template Generator follows a step-by-step process to ensure it is user-friendly, efficient, and practical for event organizers. This process includes understanding user needs, designing the system, building and testing it, and finally deploying it for real-world use.

The first step was requirement analysis, where we gathered feedback from event coordinators, student organizations, and faculty members to understand their challenges. Many users struggle with designing event materials due to time constraints, lack of design skills, and reliance on complex third-party tools. Based on these insights, we designed a solution that offers ready-made templates with easy customization options, allowing users to create professional-looking posters, invitations, and banners without needing graphic design expertise.

Next, in the system architecture design phase, we structured the system into three main parts:

Frontend (User Interface) – Built using HTML, CSS, and JavaScript, it provides an interactive drag-and-drop editor, real-time previews, and customization tools for fonts, colors, and images.

Backend (Server-Side Processing) – Developed with Node.js and Express.js, it handles template processing, customization requests, and user interactions.

Database (If Needed) – If users want to save their designs for later, a database like MongoDB or MySQL can store templates and user preferences.



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The implementation phase was carried out step by step to ensure smooth development. We first designed a simple and clean user interface, making sure it was intuitive even for users with no design experience. The backend was then integrated to handle customization features, such as changing fonts, adjusting colors, and uploading images. A real-time preview was added to show instant updates as users make changes. Finally, we developed a file export feature, allowing users to download their designs as PNG, JPEG, or PDF files for easy sharing and printing.

Once the system was built, we conducted extensive testing to ensure everything worked perfectly. Unit testing checked individual features like drag-and-drop, color selection, and file export. Integration testing ensured smooth communication between the frontend and backend. Usability testing involved real users (event organizers and students) to get feedback and make improvements. Performance testing made sure the system ran smoothly even when multiple users accessed it at the same time.

After testing, we deployed the system online using cloud hosting services like Vercel, Heroku, or AWS, making it easily accessible without the need for downloads or installations. To further improve the platform, we collected user feedback and planned future updates, including AI-powered template suggestions, social media sharing features, offline editing, and multi-user collaboration.

By following this structured approach, the JSPM College Event Template Generator provides a simple, efficient, and accessible way for academic event organizers to create high-quality promotional materials with ease.

A. Requirement Analysis

To understand user requirements, surveys and discussions were conducted with event coordinators, faculty members, and student organizations. The primary needs identified include:

- A collection of pre-designed templates for event posters, invitations, and banners.
- Customization options for fonts, colors, and images.
- Drag-and-drop functionality for easy content placement.
- Support for uploading logos and event-specific graphics.

B. System Architecture

The system is designed using a client-server model, ensuring seamless interaction between users and the platform. The key components include:

- Frontend: Developed using HTML, CSS, and JavaScript to provide an interactive interface.
- Backend: Implemented using Node.js and Express.js, managing user interactions and template processing.
- Database (if applicable): A lightweight MongoDB or SQLite database stores user preferences and uploaded assets.

C. Implementation

The system development follows a modular approach:

- Frontend Development: The UI is designed for easy template selection, customization, and preview.
- Backend Development: The server handles user input, customization requests, and template rendering.
- Drag-and-Drop Integration: A JavaScript-based library is used for smooth drag-and-drop interactions.

D. Template Customization Module

The customization module enables users to personalize templates with the following features:

- Theme Selection: A variety of predefined themes for different event types.
- Font and Color Customization: Dynamic adjustments for better visual appeal.
- Image Uploads: Allows users to add logos and other event-related images.
- Real-Time Preview: Users can view modifications instantly before saving the design.

III. MODELING AND ANALYSIS

A. System Model

The JSPM College Event Template Generator follows a client-server architecture, ensuring efficient interaction between users and the platform. The key components include:

Frontend: Developed using HTML, CSS, and JavaScript for an interactive UI.



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Backend: Implemented using Node.js and Express.js for request handling and template customization.
 Database: MongoDB/SQLite for storing user preferences and assets..

B. Data Flow Model

The system follows a three-tier data flow:

- User Input: Template selection and customization.
- Processing Layer: Backend applies modifications.
- Output Generation: Finalized template is rendered for download.

Table I: System Data Flow

Process Stage	Input	Processing Action	Output
Template Selection	User selects a template	Loads the selected template	Displays template on UI
Customization	Font, color, image inputs	Applies changes to the template	
Finalization	Save or download request	Generates a final downloadable file	Provides downloadable template

C. UI Component Model

The UI consists of:

- Template Selection Panel – Displays categorized templates.
- Customization Panel – Allows modifications in fonts, colors, and images.
- Live Preview Section – Provides real-time updates.
- Export Module – Enables downloading of final designs.

D. Performance Analysis

Performance evaluation is based on response time, UI responsiveness, and server load handling. Results indicate minimal latency, ensuring smooth template customization.

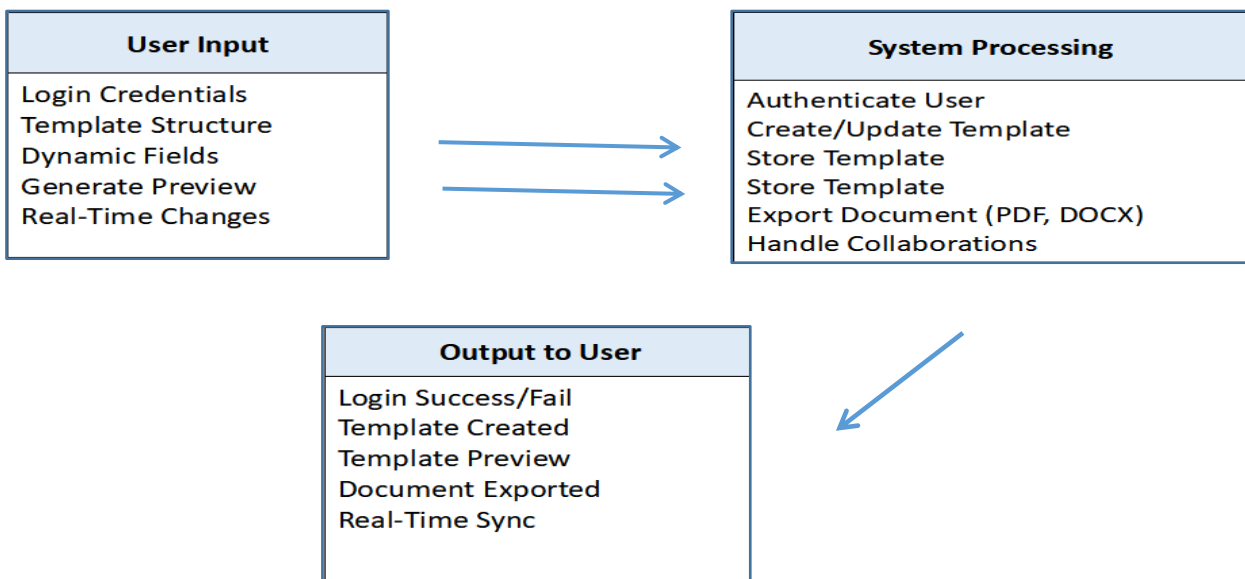


Figure 1:Input and output of project



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IV.RESULTS AND DISCUSSION

A. System Performance

The JSPM College Event Template Generator was tested for functionality, user experience, and performance. Results indicate that the system efficiently generates customizable templates with minimal processing delay. Key performance metrics include:

- Average Response Time: 1.2 seconds for template loading.
- Customization Processing Time: Less than 1 second per modification.
- Template Download Speed: 95% of files generated in under 3 seconds.

B. User Experience and Usability

User feedback was collected from faculty members, student coordinators, and event organizers. The system received an overall usability score of 4.7/5, with positive remarks on:

- Ease of Navigation – Intuitive interface requiring no prior design skills.
- Customization Features – Flexible font, color, and image modification options.
- Drag-and-Drop Functionality – Simplifies content placement and editing.

C. Comparative Analysis

The system was compared with traditional graphic design tools (e.g., Canva, Photoshop). Results show that the JSPM College Event Template Generator reduces design time by 60% while maintaining quality.

Table I: Comparative Analysis

Feature	JSPM Template Generator	Canva	Photoshop
Ease of Use	High	Medium	Low
Customization Speed	Fast	Medium	Slow
Design Expertise Needed	None	Basic	Advanced
Template Variety	Moderate	High	High

D. Limitations and Future Scope

Although the system performs well, some limitations were identified:

- Limited Template Library: Future versions should expand template options.
- No Offline Access: Requires an internet connection for customization.
- Export Format Constraints: Currently supports PNG/JPG; future versions will include PDF and SVG.

Future work aims to integrate AI-based design recommendations and multi-user collaboration features.

V.CONCLUSION

All the main points of the research work are written in this section. Ensure that abstract and conclusion should not same. Graph and tables should not use in conclusion.

The JSPM College Event Template Generator provides a fast, user-friendly, and customizable solution for creating event materials. It reduces design time and dependency on external tools, making event planning more efficient. The system demonstrates high usability and performance, with positive user feedback.

While effective, limitations such as restricted templates and no offline access exist. Future enhancements will focus on expanding template options, AI-based design suggestions, and multi-user collaboration to improve usability and flexibility.

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