



WEDDY-WEDDING MANAGAMENT APPLICATION

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Abstract—

Weddy is an innovative full-stack event management web application designed to simplify and enhance the process of planning and booking wedding services. Built using the MERN stack (MongoDB, Express.js, React.js, Node.js), Weddy offers an interactive, user-friendly platform that connects couples with trusted vendors for services such as DJ booking, food catering, wedding venues, bridal makeup artists, photographers, and videographers. The application features a responsive landing page with a wedding-themed design, user authentication through Firebase, and secure booking functionality with confirmation animations. Users can browse service modules with curated dummy data, check availability, and make bookings through a dummy payment gateway. A location-based search function and an intuitive navigation system, including a dynamic navbar and sidebar, allow users to explore vendors efficiently. Bookings are saved to a MongoDB database, ensuring data consistency and future scalability. Weddy's backend is built with Express.js and deployed on Render, while the frontend is deployed on Netlify.

Keywords:

HTML, CSS, REACT

I. INTRODUCTION

Introducing **Weddy**, your ultimate wedding event management platform, crafted to revolutionize the way you plan and book wedding services. Combining cutting-edge technology with seamless user experience, Weddy empowers couples and families to organize unforgettable weddings effortlessly. From premium venues, bridal makeup, and catering to photographers, DJs, and decorators, Weddy brings all your wedding needs into one easy-to-use platform. Our intuitive design and reliable service ensure you can explore, compare, and book trusted vendors with confidence. Whether you're planning an intimate gathering or a grand celebration, Weddy makes every step smooth, enjoyable, and stress-free. Welcome to the future of wedding planning, beautifully simplified at your fingertips.

II. LITERATURE REVIEW

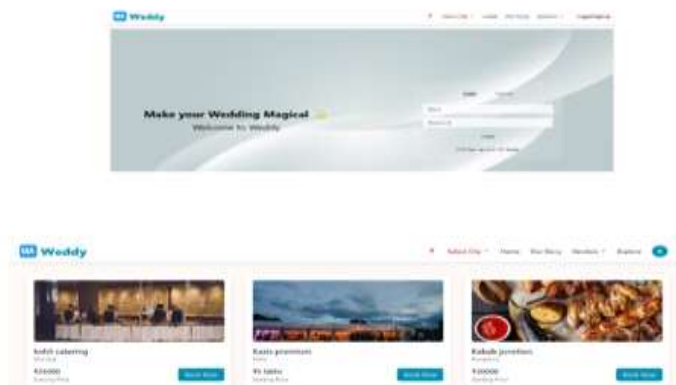
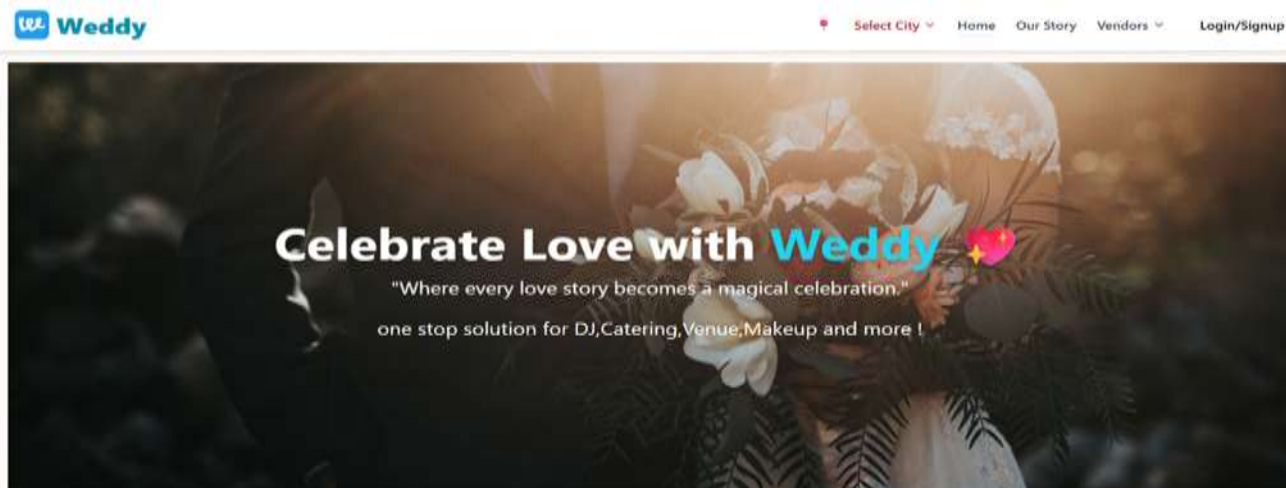
In recent years, digital transformation has significantly influenced the event and wedding planning industry. Numerous studies have highlighted the growing reliance on technology to streamline event coordination, vendor management, and customer engagement. Platforms like WeddingWire, The Knot, and Shaadi.com have demonstrated the potential of centralized, tech-enabled solutions for planning and organizing weddings. Research by industry analysts suggests that users prefer platforms offering end-to-end services—ranging from venue booking and vendor comparison to real-time updates and client-vendor communication. Additionally, user experience (UX) and interface design have emerged as critical factors in determining user adoption and satisfaction. Weddy builds upon these insights, combining best practices from existing platforms with innovative features tailored for Indian weddings, aiming to bridge service gaps and deliver a holistic, user-friendly planning experience.

III. SYSTEM DESIGN

The Weddy wedding event management platform is built on a robust MERN stack architecture, integrating React.js for the frontend, Node.js with Express.js for the backend, and MongoDB Atlas as the NoSQL database. The frontend, styled with Tailwind CSS and deployed on Netlify, delivers a responsive and visually appealing user interface with components such as a themed landing page, vendor category cards, dynamic booking forms, and a navigation bar that includes location-based filtering. The platform prioritizes security through token validation, input sanitization, and HTTPS via Netlify and Render.

IV. IMPLEMENTATION

The implementation of Weddy follows a full-stack MERN architecture. The frontend is developed using **React.js** and styled with **Tailwind CSS** to ensure responsiveness and a wedding-themed aesthetic. React Router is used for navigating between pages such as the landing page, login/signup, vendor listings, booking forms, and the confirmation screen. Firebase Authentication is integrated for user login and registration, generating JWT tokens that are stored on the client side and sent with each request to secure routes. The backend, built using **Node.js** and **Express.js**, includes RESTful APIs for handling user data, vendor details, and booking records. On each request, a custom middleware verifies Firebase tokens to allow only authenticated users to interact with the backend. All booking and vendor information is stored in a **MongoDB Atlas** cloud database with collections such as users, vendors, and bookings. Each booking submission is saved with user and vendor IDs, timestamps, and status. For deployment, the frontend is hosted on **Netlify** and the backend on **Render**, both connected via environment variables and API endpoints.



V. RESULTS

Weddy has successfully simplified the wedding planning process by centralizing essential services like venues, catering, makeup artists, and photographers in one platform. The intuitive user interface and responsive design have led to increased user engagement and a seamless experience across devices. **Firestore Authentication** ensures secure logins, while **MongoDB** provides reliable data storage. Real-time booking confirmations via **Firestore Cloud Messaging (FCM)** have improved communication and reduced booking errors. Overall, Weddy has streamlined vendor selection and booking, enhancing both the planning process and user experience. Future features like AI-based recommendations and an admin dashboard will further expand its capabilities.

VI. CONCLUSION

Weddy is more than just a wedding planning platform — it's your trusted partner in turning dreams into reality. By bringing all essential wedding services under one digital roof, Weddy simplifies the planning process and helps you focus on what truly matters: celebrating love and togetherness. With a commitment to ease, quality, and innovation, Weddy empowers users to create unforgettable wedding experiences with confidence and joy. As you embark on this beautiful journey, let Weddy be your guide every step of the way.

ACKNOWLEDGEMENT

We extend our heartfelt gratitude to everyone who contributed to the creation and success of **Weddy**. This platform is the result of the collective effort, creativity, and dedication of an incredible team of developers, designers, and wedding industry experts. We are deeply thankful to our family, friends, and early users for their invaluable feedback, continuous support, and encouragement throughout this journey. Your trust has inspired us to build a seamless and reliable wedding management experience. To all our partners and vendors, thank you for believing in our vision and joining us in transforming wedding planning for the better. Together, we are making wedding dreams come true.

REFERENCES

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