WedWell-A Cloud Based Wedding Planner Application Using Flutter

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Abstract: *Wedding planning is a complex, emotionally charged process that requires careful organization, coordination, and communication. In socially vibrant and diverse nations such as India, wedding planning involves not only logistics but also elaborate religious rituals, multi-event planning, budgeting, vendor management, and large-scale guest management. Traditionally, this intricate process has been coordinated with disconnected tools such as physical notebooks, Excel spreadsheets, and messaging apps, which more often than not result in inefficiencies, miscommunication, and higher stress levels for the involved stakeholders.*

With the advent of digital transformation and higher smartphone penetration rates, there is a need for smart, integrated platforms that can streamline the planning process, improve collaboration, and honour cultural diversity. WedWell fills this requirement by providing a full-featured, mobile-first wedding planning app developed with Flutter for cross-platform support and fuelled by Google Firestore for real-time, cloud-hosted data syncing. The app integrates essential functions—task assignment, budget tracking, vendor coordination, and guest management—into an easy-to-use and collaborative interface that adjusts to varied cultural customs.

The development process was based on an agile methodology and included iterative input from couples and expert planners. WedWell's modular design enables customization depending on local traditions, locally based vendors, and individual wishes. Major features include real-time sync of tasks, collaborative planning facilities, budget notifications, in-app messaging, and Google Maps-enabled vendor search.

In user testing and performance testing, WedWell obtained a 37% drop in the efforts needed to manage manual tasks and a 60% drop in the use of messaging apps such as WhatsApp for coordination. It effectively handled over 35 users simultaneously with the average sync latency being only 1.2 seconds, proving its technical strength and scalability.

This work introduces the design reasoning, system architecture, testing results, and future development strategy of WedWell. It defines the application as a practical, scalable solution to contemporary wedding planning, with marked improvements in usability, cultural inclusivity, and stress reduction. The conclusions recommend the incorporation of cloud-native technology and localized design thinking in resolving conventional planning problems through contemporary, user-focused solutions...

Keywords: Flutter, Firestore SDK, Cross-Platform Application, Task Management System, Wedding Planning.

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