Ospetal: A Hospital Data

Management System

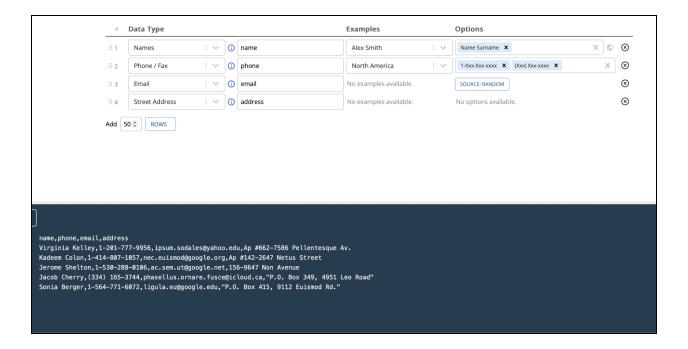
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Executive Summary

Oseptal is a hospital database system designed to manage patient personal and medical records, hospital employee information, administrative processes, invoices and relationships between various entities. It aims to address inefficiencies in current hospital record-keeping systems, where outdated and fragmented data lead to miscommunication and delay issues that can cost lives in a hospital setting.

The data was generated using a third party website that generates data and with the application of LLM. For example, Our patient table was generated using generate.com.

Image from https://generatedata.com/generator:



Business Rules

Ospetal database system follows strict business rules to ensure security, accuracy, and proper data management.

- 1. **Confidentiality** is maintained by restricting access to patient records based on role-based permissions, allowing only authorized staff to view sensitive information.
- 2. **Authentication** measures, including unique login credentials and multi-factor authentication, protect against unauthorized access.
- 3. Data accuracy is enforced through real-time updates, validation checks, and duplicate record prevention. Each patient and employee is uniquely identified using system-generated IDs, ensuring proper record-keeping and access control. Only doctors can modify patient medical records, while administrative staff handle non-medical data. These rules uphold data integrity, streamline operations, and enhance patient privacy.

