**Title:** Hospital Management System (HMS)

**Names and Roles:**

* Kiran Kumar Parvatha Reddy (Dotnet Backend Developer and Cloud Deployment)
* Satya Machindra Gattu (Frontend Developer and Cloud Deployment)
* Divya Mishra (Database Design and Cloud Deployment)

**Motivation/Purpose:**

Health care system is one of the most important aspects in every individual. Our motivation for this project **Hospital Management System** is to develop a system where the application is addressing for maintaining the track record of in-patient, out-patient and administrative related information on daily basis. The purpose of this project is to create a user-friendly system that improves hospital management operations, enhances patient extra care to share observations to turn safety events for better prevention and improves overall efficiency in the system.

By creating this application, we get a new systematic behavior in patients for doctor’s appointment and leverages time managing factor for a successful approach. Our team can bring lot more healthcare facilities for this application to manage and maintain patient data to strengthen the management system. After using this application, we can see how it really helps us to keep the patient information more organized and keep the track record up-to-date.

This application mainly helps for people who are still maintaining their records manually. It can help *people getting the right information to the right patients at the right time* without any conflicts in the system. This newly platform brings it all together for a healthy cause, mainly in time management, cost management and ultimately ensures a higher safety and secure standards for ensuring the healthcare management system data.

This application helps to ensure that the patient information can securely store and holds entire records in the database based on individual organization standards. Mainly, our implementation for this project is to secure user credentials by using hashing functionality. Our team is planning to build application in such a way that it provides a customized feature dynamically to make use for multiple organizations at the same time.

Our aim of this project is to create a platform that not only maintains essential patient records but also improves patient care delivery by facilitating observations.

**Utilized Cloud Tech:**

We use Microsoft Dotnet Framework to develop the web application, Microsoft Azure SQL Database to store the database. To build, deploy, scale web apps and APIs in this project we use Azure Web Apps. To secure the connections we use Azure Key Vault and to monitor the entire application we use Azure Monitor mainly for tracking logs and metrics across the application.