



DBMS MINI PROJECT

COVID BED SLOT BOOKING SYSTEM

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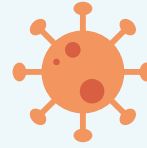
Introduction



The COVID-19 pandemic emphasized the need for efficient healthcare systems, particularly in managing bed availability. This mini project focuses on developing a Covid Bed Slot Booking System using a database management system (DBMS) to streamline the process and improve transparency.



Objectives



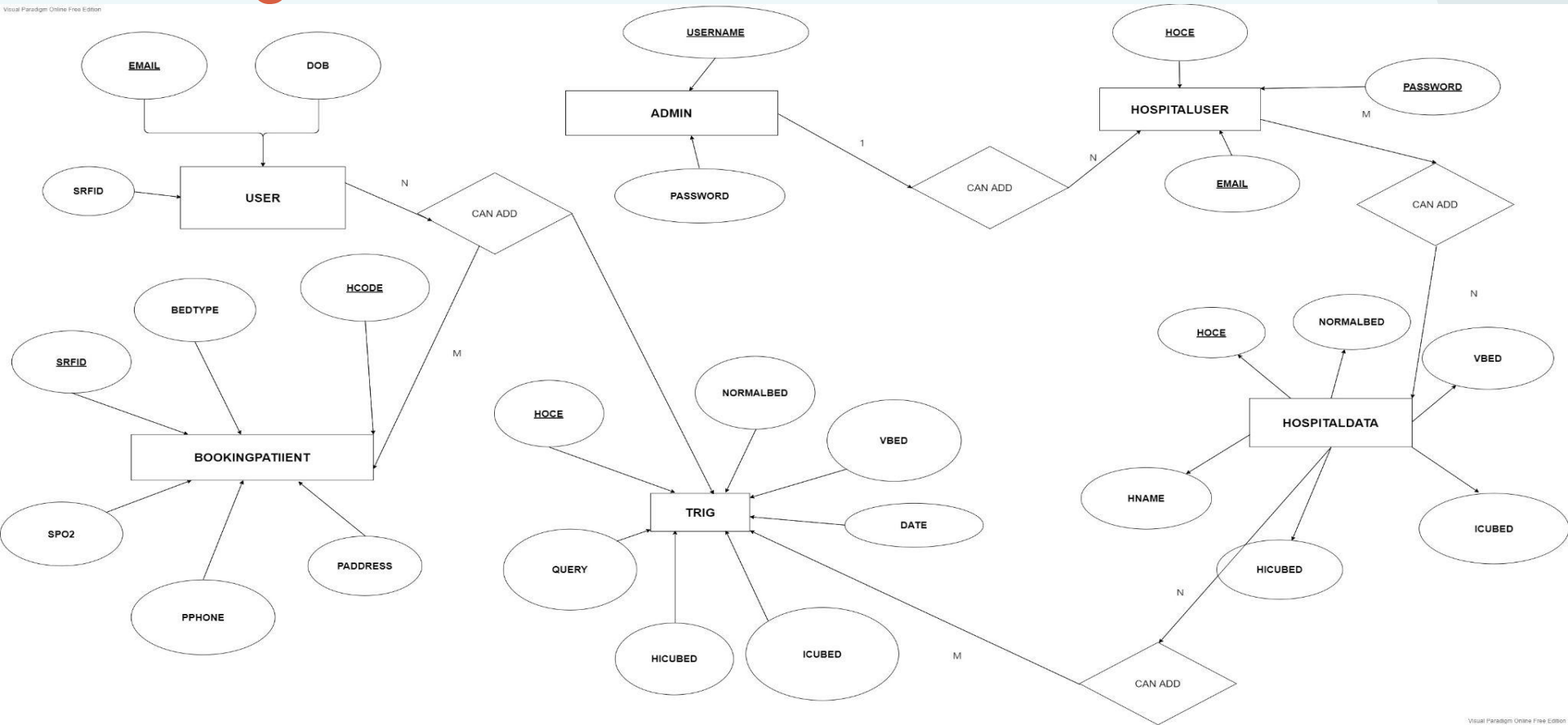
The main objectives of the Covid Bed Slot Booking System are:

- Automating bed booking to eliminate manual phone calls and paperwork.
- Increasing transparency by providing real-time information on bed availability across different hospitals.
- Optimizing resource allocation to help hospitals manage bed resources efficiently and prioritize critical cases.
- Improving accessibility by enabling remote bed booking, reducing stress and travel time for patients.

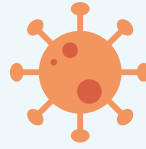


ER Diagram

Visual Paradigm Online Free Edition



Visual Paradigm Online Free Edition

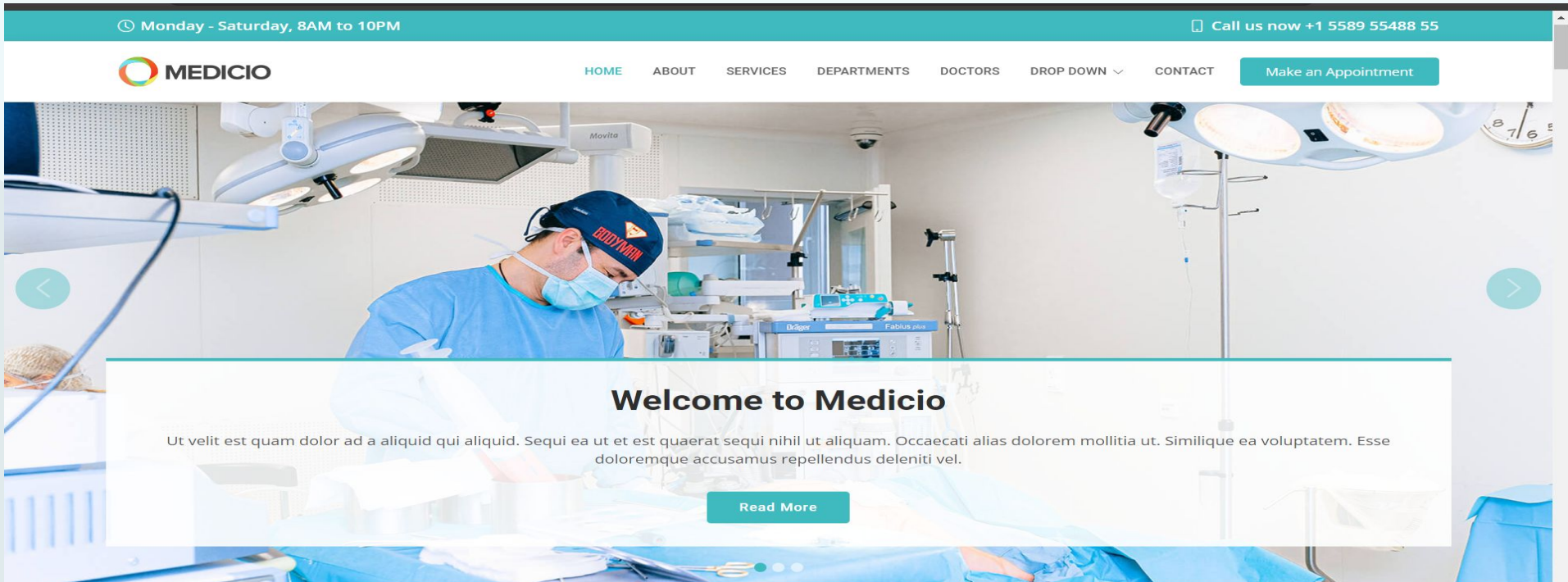


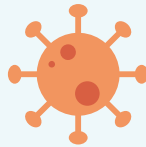
FRONT END





- **HTML, CSS, and JavaScript** are the tools used for front-end development.
- **These languages** are employed to build webpages
- **Utilizing bootstrapmad.com**, we can obtain pre-made front end templates





BACK END



XAMPP



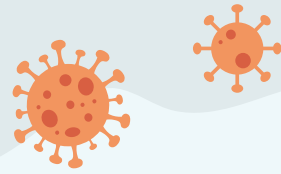
XAMPP is a free and open-source software package that bundles a web server (Apache), a database management system (MySQL), and interpreters for scripting languages (PHP and Perl). It's commonly used for local web development, providing a complete environment to test and run websites before deploying them online.

Key Features:

- Easy installation: XAMPP comes pre-configured, making it incredibly easy to set up and use on Windows, macOS, and Linux.
- Cross-platform compatibility: Develop your website on your preferred operating system without worrying about compatibility issues.
- Integrated components: All the necessary software for web development is bundled together, saving you time and effort.
- Open-source and free: XAMPP is free to use and modify, making it accessible to everyone.



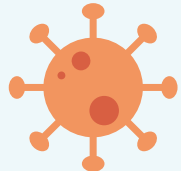
FLASK



Flask is a micro web framework written in Python. Unlike full-fledged frameworks like Django, Flask provides a minimal core and encourages developers to build applications by adding extensions and libraries. This makes it lightweight, flexible, and easy to learn.

Key Features:

- Minimalistic: Flask provides the essential building blocks for web applications, allowing developers to customize and extend it as needed.
- Flexible: Flask supports a wide range of third-party extensions, libraries, and tools, enabling developers to build complex and powerful applications.
- Easy to Learn: With its clear and concise documentation and a vast community, Flask is a great choice for beginners and experienced developers alike.
- Fast and Efficient: Flask is known for its high performance and efficient resource utilization.
- Open-source and Free: Flask is free to use and distribute under the BSD license.

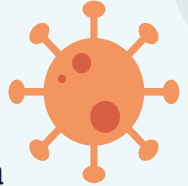


MySQL



MySQL is a popular, open-source relational database management system (RDBMS). It stores data in tables, allowing users to organize, manipulate, and retrieve information efficiently. Its name is a combination of "My", the name of co-founder Michael Widenius's daughter My, and "SQL", the acronym for Structured Query Language.

Key Features:



- **Structured data storage:** Organizes data in tables with rows and columns, enabling efficient data manipulation and retrieval.
- **SQL support:** Uses Structured Query Language (SQL) for accessing and manipulating data.
- **Multiple storage engines:** Offers different storage engines to optimize performance based on specific needs.
- **Replication:** Provides data redundancy and high availability.
- **Extensive ecosystem:** Supports a vast range of third-party tools and extensions.





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FLASK : <https://flask.palletsprojects.com/en/3.0.x/>





Thanks!

