

PREPARED FOR
SIR IFTIQAR SAMI

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PROPOSAL

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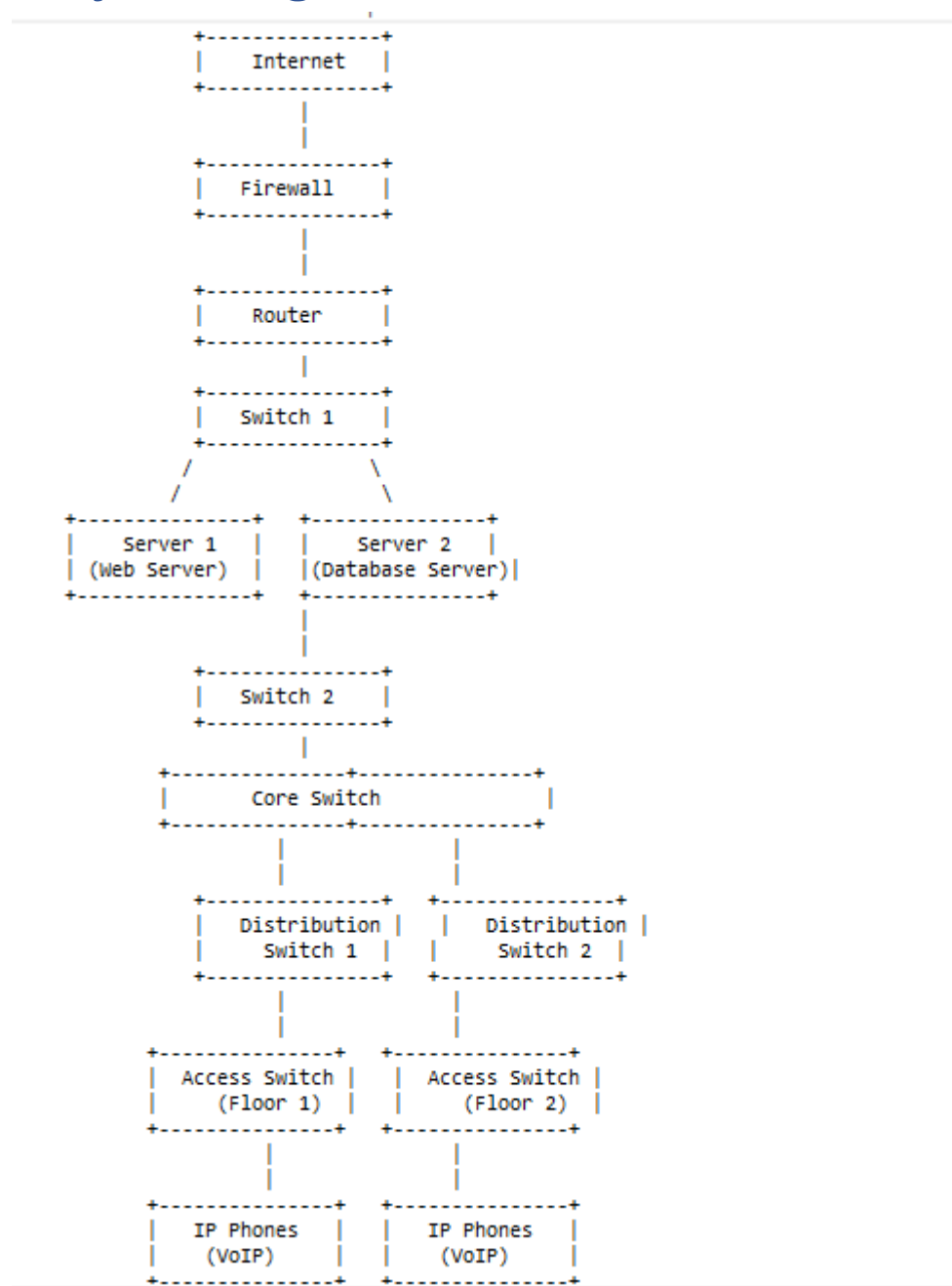
Project Title:

➤ **Hospital Network Project**

Project Members:

Student ID	Student Name
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11450	Muhammad Ahsan
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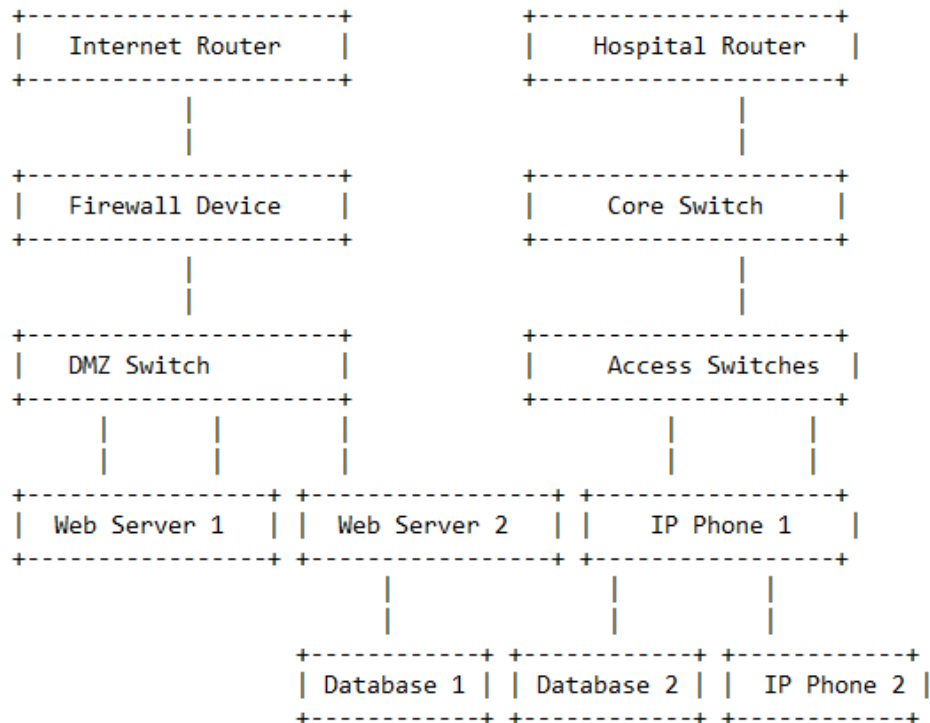
Project Diagram:



Explanation:

- 1) The Hospital Network is connected to the Internet through a router that connects to the firewall.
- 2) The web server (Server 1) is accessible from the Internet, and it hosts the Hospital Information System (HIS) application.
- 3) The database server (Server 2) stores all the information related to patients, doctors, nurses, medical records, and other hospital operations.
- 4) The distribution switches are connected to the core switch, which is responsible for routing traffic between different parts of the network.
- 5) The access switches are connected to the distribution switches and provide connectivity to IP phones and other devices on each floor of the hospital.
- 6) IP phones are used to provide voice communication between patients, doctors, and nurses.
- 7) The network must comply with various regulations related to privacy, security, and data protection.

Network Diagram:



Explanation:

- 1) The Hospital Network is connected to the Internet through an Internet router, which is responsible for connecting to the ISP.
- 2) The Internet router is connected to the hospital router, which is responsible for routing traffic between different parts of the network.
- 3) The firewall device is connected to the hospital router and provides security for the network by controlling access to the servers and other devices in the DMZ.
- 4) The DMZ switch is connected to the firewall device and contains the web servers that are accessible from the Internet.
- 5) The core switch is responsible for routing traffic between the DMZ and the internal network.
- 6) The access switches are connected to the core switch and provide connectivity to IP phones and other devices on each floor of the hospital.
- 7) The web servers are responsible for hosting the Hospital Information System (HIS) application and other web-based services.
- 8) The database servers store all the information related to patients, doctors, nurses, medical records, and other hospital operations.
- 9) The IP phones are used to provide voice communication between patients, doctors, and nurses.

