

Activity based Project 3 Report on

Application Security Submitted to Vishwakarma University, Pune

Contemporary Curriculum, Pedagogy, and Practice (C2P2)

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By

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Introduction:
In the evolving landscape of healthcare, ensuring the security and privacy of patient and staff accounts is paramount for organizations like Noble Hospital. With the increasing sophistication of cyber threats, bolstering safeguarding measures is not just a matter of compliance but also of ethical responsibility. To address these concerns, Noble Hospital recognizes the imperative of implementing a robust security strategy that goes beyond traditional measures.
In response to this imperative, Noble Hospital aims to enhance its security posture by integrating Multi-Factor Authentication (MFA) into its existing infrastructure. MFA adds an additional layer of security by requiring users to provide multiple forms of identification before gaining access to their accounts. In this proposed strategy, the dual elements of Password and One-Time Password (OTP) authentication will be employed, significantly enhancing protection against unauthorized access and potential data breaches.

Configure your web application and deploy it on Virtual Private Network

By adopting MFA with Password and OTP authentication, Noble Hospital not only aligns with industry best practices but also demonstrates its unwavering commitment to safeguarding sensitive patient information and ensuring the security of its dedicated staff members. This proactive approach underscores Noble Hospital's dedication to maintaining the trust and confidentiality essential in the healthcare sector, ultimately fostering a safer and more secure environment for all stakeholders involved.

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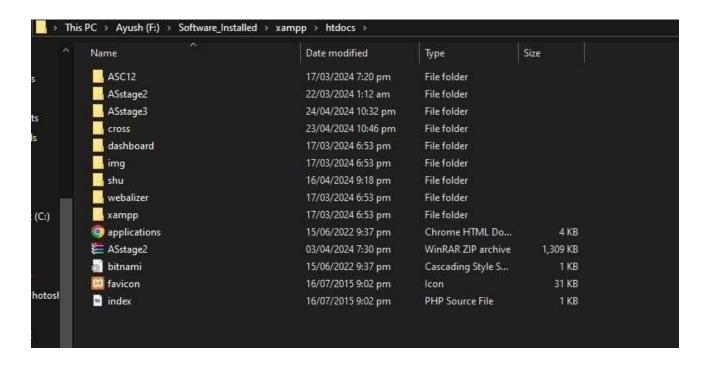
Project Statement:

Install XAMPP: Download and install XAMPP on the server machine that will host the application. XAMPP provides an easy-to-use platform that includes Apache, MySQL, PHP, and Perl, essential components for hosting web applications.

- 1. Configure Apache: Open the XAMPP Control Panel and start the Apache server. Configure Apache to serve your application by editing the Apache configuration files (httpd.conf, httpdvhosts.conf) located in the "conf" directory of your XAMPP installation. Set up virtual hosts if hosting multiple applications.
- 2. Place Application Files: Copy your application files into the appropriate directory within the XAMPP installation. By default, XAMPP's web root directory is located in the "htdocs" folder. Ensure that your application files are accessible within this directory.
- 3. Database Setup: If your application requires a database, use phpMyAdmin, included with XAMPP, to create a new database and import any necessary database schema and data.
- 4. Configure Firewall: Configure the firewall on the server machine to allow incoming connections on the port used by Apache (usually port 80 for HTTP or port 443 for HTTPS). This ensures that clients on the LAN can access the application.
- 5. Static IP Address: Assign a static IP address to the server machine hosting XAMPP. This ensures that the IP address remains constant, making it easier for clients on the LAN to access the application consistently.
- 6. Test Access: Verify that the application is accessible within the LAN by opening a web browser on a client machine and entering the server's IP address or hostname followed by the path to the application (e.g., http://server_ip/application_folder). Ensure that all links and resources within the application are correctly configured for LAN access.

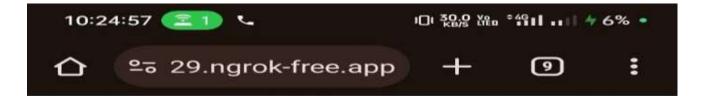


Figure 1 Install XAMPP



```
Command Prompt - ngrok ht × + v
                                                                                                                 (Ctrl+C to quit
ngrok
                                dheerajyalasangi123@gmail.com (Plan: Free)
Account
 pdate
                                update complete, restart for new version!
                                3.8.0
Version
Region
                                India (in)
Latency
                                16ms
Web Interface
                                http://127.0.0.1:4040
Forwarding
                                https://8f7f-103-153-167-129.ngrok-free.app -> http://localhost:5500
Connections
                                ttl
                                                  rt1
                                                          rt5
                                                                   p58
                                                                            p98
                                         opn
                                18
                                         2
                                                  0.03
                                                          0.02
                                                                   5.13
                                                                            21.29
HTTP Requests
GET /favicon.ico
                                 494 Not Found
                                 101 Switching Protocols
GET /noble_hospital.html/ws
GET /noble_hospital.html
                                 200 OK
GET /noble_hospital.html/ws
                                 101 Switching Protocols
GET /noble_hospital.html
                                 304 Not Modified
                                 404 Not Found
GET /favicon.ico
GET /noble_hospital.html
                                 200 OK
GET /noble_hospital.html/ws
GET /noble_hospital.html
GET /noble_hospital.html
                                 101 Switching Protocols
                                 200 OK
                                 200 OK
```

Figure 2 Place the webpage in XAMPP



You are about to visit: 8f7f-103-153-167-129.ngrokfree.app

Website IP: 103.153.167.129

- This website is served for free through ngrok.com.
- You should only visit this website if you trust whoever sent the link to you.
- Be careful about disclosing personal or financial information like passwords, phone numbers, or credit cards.

Visit Site

Are you the developer?

We display this page to prevent abuse. Visitors to your site will only see it once.



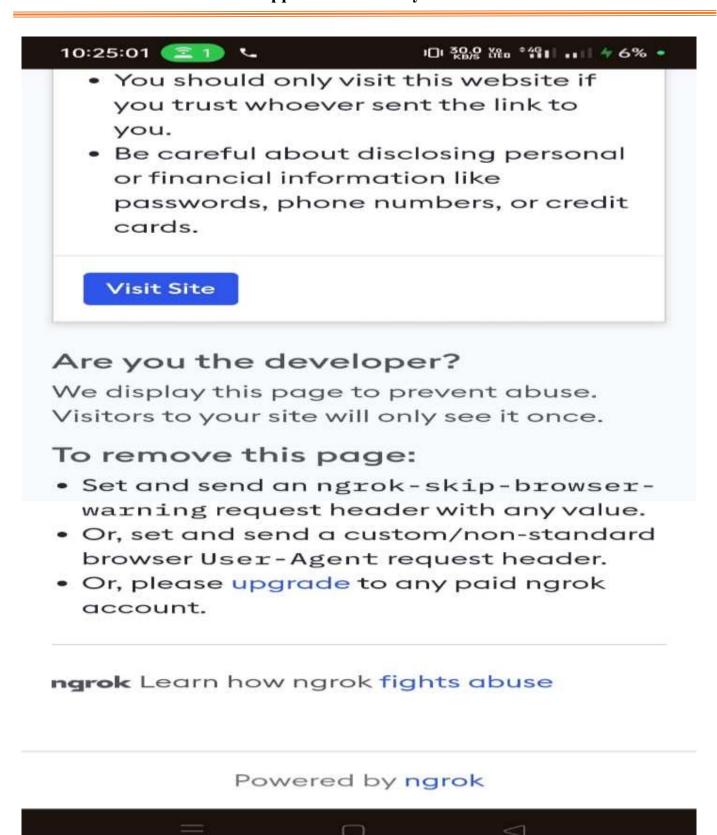
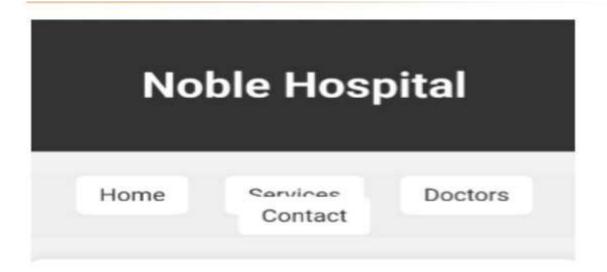


Figure TO VIEW SITE.



Welcome to Noble Hospital

Providing quality healthcare services for the community.

Our Services

- · Emergency Care
- Medical Consultation
- Surgery
- Maternity Services

Our Services

- Emergency Care
- Medical Consultation
- Surgery
- Maternity Services

Our Doctors

Dr. Aditya Gupta - Surgeon

Dr. Sandeep Vaishya - Surgeon

Dr. Hemant Sharma - Obstetrician

Contact Us

Address: 123 Main Street, Cityville

Phone: (555) 123-4567

Email: info@noblehospital.com

Figure INFORMATION.

Conclusion:

In conclusion, deploying an application on a LAN using XAMPP offers numerous benefits in terms of simplicity, security, performance, cost-effectiveness, and scalability. By leveraging XAMPP's features and configuring network settings effectively, organizations can create a reliable and secure environment for hosting web applications within their internal network.