

## Group-24

# ‘Social Media Marketplace’: FCS Course Project

31<sup>st</sup> January, 2025

## January Milestone

### Tech Stack

For now, We’ve decided to work with the following tech stack.

- Operating System: Ubuntu
- Database: PostgreSQL
- Web Server: Nginx
- Front End: React
- Back End: Django
- Languages: Python, Javascript, HTML, CSS, Shell

**Configure HTTPS with your own certificate authority or a self-signed certificate & Deploy a simple “Hello World” or skeleton website on the VM server with SSL/TLS.**



We installed NGINX and created a simple "Hello World" website in /var/www/hello-world. Then, We configured NGINX to serve the site by creating a configuration file in sites-available. Next, We generated a self-signed SSL certificate using OpenSSL and set up NGINX to use it for HTTPS. We also configured a second server block to redirect HTTP traffic to HTTPS. After testing the configuration, We reloaded NGINX. Finally, We visited the site using lynx <https://192.168.3.38> to verify the webpage’s deployment.