

Group-24

Suraj Jha 2021209, Rajat Jaiswal 2021184, Tarun Bansal 2021210, Arnav Singh 2021019

‘Social Media Marketplace’: FCS Course Project

31st March, 2025

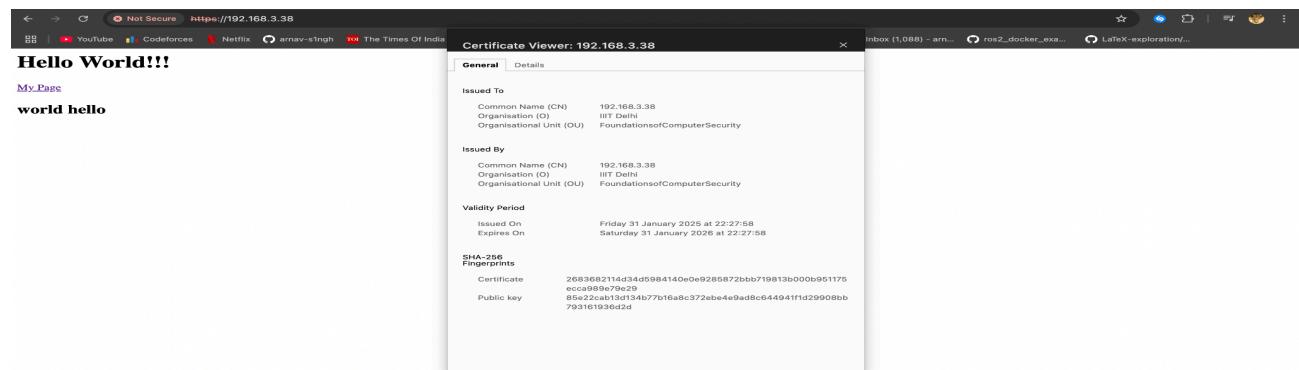
March Milestone

Tech Stack

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

- Operating System: Ubuntu
- Database: Sqlite
- Web Server: Nginx
- Front End: React
- Back End: Django
- Languages: Python, Javascript, HTML, CSS, Shell
- Fernet using the Cryptography library

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.

Screenshots of Database Schema

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CREATE TABLE IF NOT EXISTS "django_migrations" ("id" integer NOT NULL PRIMARY KEY AUTOINCREMENT, "app" varchar(255) NOT NULL, "name" varchar(255) NOT NULL, "applied" datetime NOT NULL);
CREATE TABLE IF NOT EXISTS "auth_group_permissions" ("id" integer NOT NULL PRIMARY KEY AUTOINCREMENT, "group_id" integer NOT NULL REFERENCES "auth_group" ("id") DEFERRABLE INITIALLY DEFERRED, "permission_id" integer NOT NULL REFERENCES "auth_permission" ("id") DEFERRABLE INITIALLY DEFERRED;
CREATE TABLE IF NOT EXISTS "auth_user_groups" ("id" integer NOT NULL PRIMARY KEY AUTOINCREMENT, "user_id" integer NOT NULL REFERENCES "auth_user" ("id") DEFERRABLE INITIALLY DEFERRED, "group_id" integer NOT NULL REFERENCES "auth_group" ("id") DEFERRABLE INITIALLY DEFERRED;
CREATE TABLE IF NOT EXISTS "auth_user_permissions" ("id" integer NOT NULL PRIMARY KEY AUTOINCREMENT, "user_id" integer NOT NULL REFERENCES "auth_user" ("id") DEFERRABLE INITIALLY DEFERRED, "permission_id" integer NOT NULL REFERENCES "auth_permission" ("id") DEFERRABLE INITIALLY DEFERRED);
CREATE UNIQUE INDEX "auth_group_permissions_group_id_permission_id_9cd325b0_uniq" ON "auth_group_permissions" ("group_id", "permission_id");
CREATE INDEX "auth_group_permissions_group_id_9cd325b0" ON "auth_group_permissions" ("group_id");
CREATE INDEX "auth_group_permissions_permission_id_9435c02e" ON "auth_group_permissions" ("permission_id");
CREATE UNIQUE INDEX "auth_user_groups_user_id_group_id_6a12ed0b_uniq" ON "auth_user_groups" ("user_id");
CREATE INDEX "auth_user_groups_user_id_group_id_6a12ed0b" ON "auth_user_groups" ("user_id", "group_id");
CREATE INDEX "auth_user_permissions_user_id_permission_id_a95ead1b" ON "auth_user_permissions" ("user_id", "permission_id");
CREATE INDEX "auth_user_permissions_user_id_a95ead1b" ON "auth_user_permissions" ("user_id");
CREATE INDEX "auth_user_permissions_permission_id_1fbdbf2c" ON "auth_user_permissions" ("permission_id");
CREATE INDEX "auth_content_type_id_76dd5d3b_uniq" ON "django_content_type" ("model");
CREATE TABLE IF NOT EXISTS "auth_permission" ("id" integer NOT NULL PRIMARY KEY AUTOINCREMENT, "name" varchar(50) NOT NULL, "content_type_id" integer NOT NULL REFERENCES "django_content_type" ("id"), "codename" varchar(100) NOT NULL, "object_repr" varchar(250) NOT NULL, "action_flag" smallint unsigned NOT NULL CHECK ("action_flag" >= 0), "change_message" text NOT NULL, "content_type_id" integer NOT NULL REFERENCES "auth_user" ("id") DEFERRABLE INITIALLY DEFERRED, "action_time" datetime NOT NULL);
CREATE INDEX "django_admin_log_content_type_id_c4bc8e8b" ON "django_admin_log" ("content_type_id");
CREATE INDEX "django_admin_log_id_f2f47e4b" ON "django_admin_log" ("id");
CREATE TABLE IF NOT EXISTS "django_content_type" ("id" integer NOT NULL PRIMARY KEY AUTOINCREMENT, "app_label" varchar(100) NOT NULL, "model" varchar(100) NOT NULL);
CREATE UNIQUE INDEX "django_content_type_app_label_model_76dd5d3b_uniq" ON "django_content_type" ("app_label", "model");
CREATE TABLE IF NOT EXISTS "auth_user" ("id" integer NOT NULL PRIMARY KEY AUTOINCREMENT, "password" varchar(128) NOT NULL, "last_login" datetime NOT NULL, "is_superuser" bool NOT NULL, "username" varchar(150) NOT NULL UNIQUE, "last_name" varchar(150) NOT NULL, "first_name" varchar(150) NOT NULL, "email" varchar(254) NOT NULL, "is_staff" bool NOT NULL, "is_active" bool NOT NULL, "date_joined" datetime NOT NULL, "first_name" varchar(150) NOT NULL);
CREATE TABLE IF NOT EXISTS "auth_app_profile" ("id" integer NOT NULL PRIMARY KEY AUTOINCREMENT, "profile_picture" varchar(100) NOT NULL, "user_id" integer NOT NULL REFERENCES "auth_user" ("id") DEFERRABLE INITIALLY DEFERRED);
CREATE TABLE IF NOT EXISTS "auth_app_message" ("id" integer NOT NULL PRIMARY KEY AUTOINCREMENT, "timestamp" datetime NOT NULL, "is_read" bool NOT NULL, "receiver_id" integer NOT NULL REFERENCES "auth_user" ("id") DEFERRABLE INITIALLY DEFERRED, "sender_id" integer NOT NULL REFERENCES "auth_user" ("id") DEFERRABLE INITIALLY DEFERRED);
CREATE INDEX "auth_app_message_receiver_id_d49a1fc" ON "auth_app_message" ("receiver_id");
CREATE INDEX "auth_app_message_sender_id_2f77aa83" ON "auth_app_message" ("sender_id");
CREATE TABLE IF NOT EXISTS "django_session" ("session_key" varchar(40) NOT NULL PRIMARY KEY, "session_data" text NOT NULL, "expire_date" datetime NOT NULL);
CREATE INDEX "django_session_expire_date_a5c62263" ON "django_session" ("expire_date");

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Table: django_migrations
+-----+
| id | app | name | applied |
+-----+
| INTEGER PRIMARY KEY AUTOINCREMENT | VARCHAR(255) NOT NULL | VARCHAR(255) NOT NULL | DATETIME NOT NULL |
+-----+
Table: sqlite_sequence
+-----+
| name | seq |
+-----+
| TEXT | TEXT |
+-----+
Table: auth_group_permissions
+-----+
| id | group_id | permission_id |
+-----+
| INTEGER PRIMARY KEY AUTOINCREMENT | INTEGER NOT NULL | REFERENCES auth_group(id) | INTEGER NOT NULL | REFERENCES auth_permission(id) |
+-----+
Table: auth_user_groups
+-----+
| id | user_id | group_id |
+-----+
| INTEGER PRIMARY KEY AUTOINCREMENT | INTEGER NOT NULL | REFERENCES auth_user(id) | INTEGER NOT NULL | REFERENCES auth_group(id) |
+-----+
Table: auth_user_permissions
+-----+
| id | user_id | permission_id |
+-----+
| INTEGER PRIMARY KEY AUTOINCREMENT | INTEGER NOT NULL | REFERENCES auth_user(id) | INTEGER NOT NULL | REFERENCES auth_permission(id) |
+-----+
Table: django_admin_log
+-----+
| id | object_id | object_repr | action_flag | change_message | content_type_id | user_id | action_time |
+-----+
| INTEGER PRIMARY KEY AUTOINCREMENT | TEXT NULL | VARCHAR(250) NOT NULL | SMALLINT UNSIGNED NOT NULL CHECK (action_flag >= 0) | TEXT NOT NULL | INTEGER NULL REFERENCES django_content_type(id) | INTEGER NOT NULL |
+-----+

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Table: django_content_type
+-----+
| id | app_label | model |
+-----+
| INTEGER PRIMARY KEY AUTOINCREMENT | VARCHAR(100) NOT NULL | VARCHAR(100) NOT NULL |
+-----+
Table: auth_permission
+-----+
| id | content_type_id | codename | name |
+-----+
| INTEGER PRIMARY KEY AUTOINCREMENT | INTEGER NOT NULL REFERENCES django_content_type(id) | VARCHAR(100) NOT NULL | VARCHAR(255) NOT NULL |
+-----+
Table: auth_group
+-----+
| id | name |
+-----+
| INTEGER PRIMARY KEY AUTOINCREMENT | VARCHAR(150) NOT NULL UNIQUE |
+-----+
Table: auth_user
+-----+
| id | password | last_login | is_superuser | username | last_name | email | is_staff | is_active | date_joined | first_name |
+-----+
| INTEGER PRIMARY KEY AUTOINCREMENT | VARCHAR(128) NOT NULL | DATETIME NULL | BOOL NOT NULL | VARCHAR(150) NOT NULL UNIQUE | VARCHAR(150) NOT NULL | VARCHAR(254) NOT NULL | BOOL NOT NULL | BOOL NOT NULL |
+-----+
Table: auth_app_profile
+-----+
| id | profile_picture | user_id |
+-----+
| INTEGER PRIMARY KEY AUTOINCREMENT | VARCHAR(100) NOT NULL | INTEGER NOT NULL REFERENCES auth_user(id) |
+-----+
Table: auth_app_message
+-----+
| id | timestamp | is_read | receiver_id | sender_id | content |
+-----+
| INTEGER PRIMARY KEY AUTOINCREMENT | DATETIME NOT NULL | BOOL NOT NULL | INTEGER NOT NULL REFERENCES auth_user(id) | INTEGER NOT NULL REFERENCES auth_user(id) | BLOB NOT NULL |
+-----+

```

Screenshot of the admin dashboard

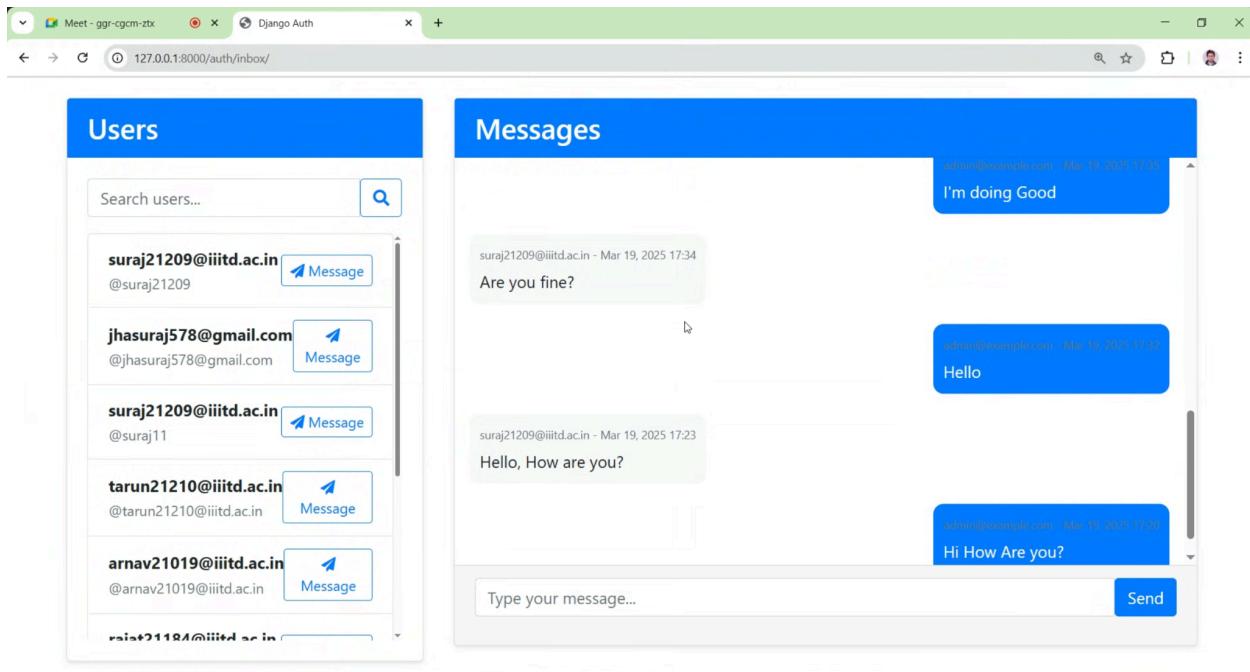
The screenshot shows a web browser window titled "Admin Dashboard" with the URL "127.0.0.1:8000/auth/admin/dashboard/". The main content is a table titled "Registered Users" with columns: Username, Email, Date Joined, Status, and Actions. The table lists eight users:

Username	Email	Date Joined	Status	Actions
example2@gmail.com	example2@gmail.com	Mar 31, 2025 14:26	Pending	<button>Review</button>
testing@gmail.com	testing@gmail.com	Mar 30, 2025 19:22	Verified	
suraj21209@iiitd.ac.in	suraj21209@iiitd.ac.in	Mar 19, 2025 17:23	No Documents	
rajat21184@iiitd.ac.in	rajat21184@iiitd.ac.in	Mar 10, 2025 17:40	No Documents	
arnav21019@iiitd.ac.in	arnav21019@iiitd.ac.in	Mar 10, 2025 17:39	No Documents	
tarun21210@iiitd.ac.in	tarun21210@iiitd.ac.in	Mar 10, 2025 17:38	No Documents	
suraj11	suraj21209@iiitd.ac.in	Mar 10, 2025 13:00	No Documents	
adminSuraj	admin@example.com	Mar 10, 2025 12:58	Verified	

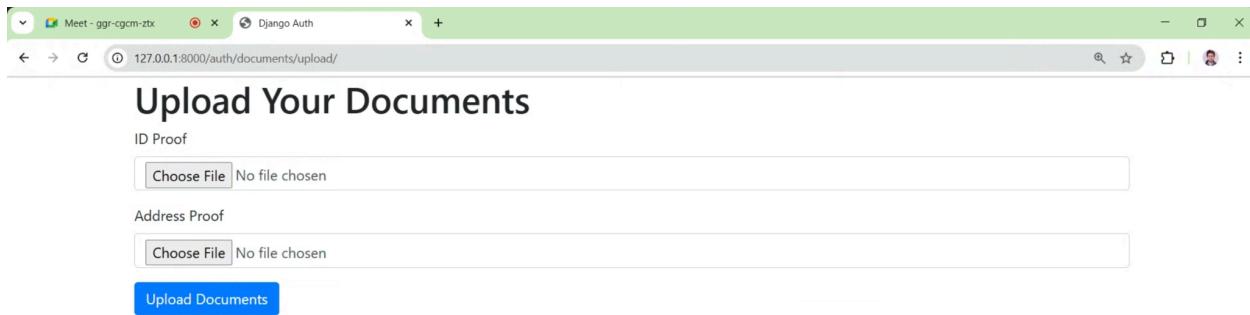
Screenshot of the user accessing advanced features after approval

The screenshot shows a web browser window titled "Dashboard: example2@gmail.com" with the URL "127.0.0.1:8000/auth/dashboard/". The top navigation bar includes links for Messages, Profile, Upload Documents, and Logout. The left sidebar has "Quick Links" for My Posts, Saved Items, Messages, and Settings. Below it is a "Find Users" section with a search bar and a magnifying glass icon. The main area contains several forms: "Post an Item for Sale" (What are you selling?, Describe your item..., Price), "Upload Images" (Choose File, Post button), and a message from "testing@gmail.com" posted 19 hours, 7 minutes ago.

Screenshot of one-to-one messages



Screenshot of the page for attaching images and videos



Screenshot of the Payment Gateway

 adminSuraj 2 minutes ago

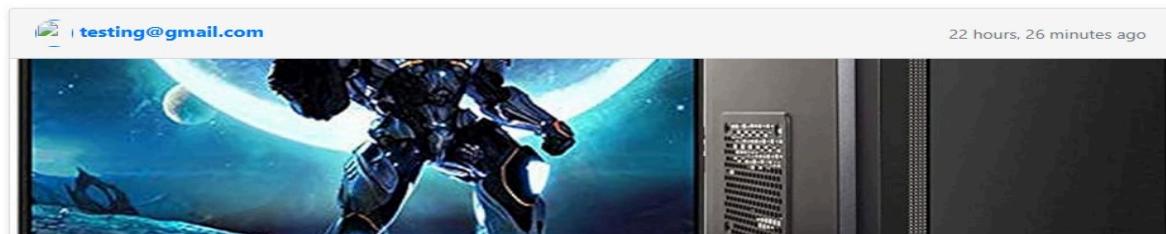


watch \$623.00

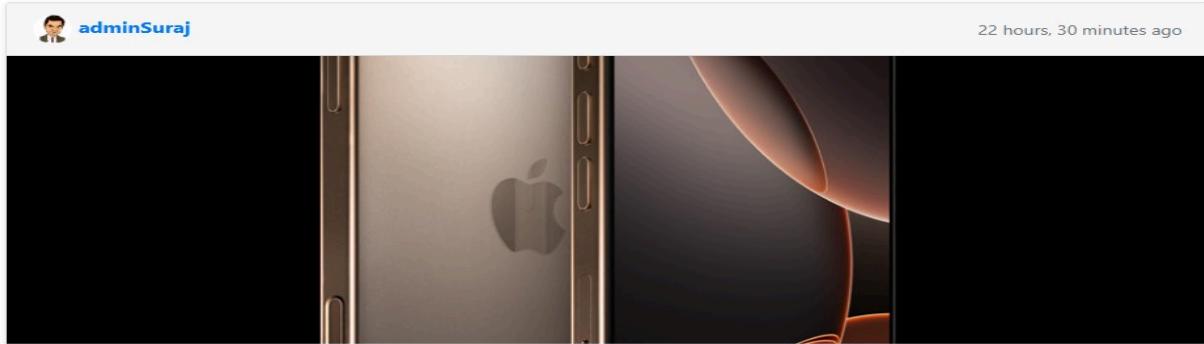
This watch have amazing features

[View Details](#) [Buy Now - \\$623.00](#) Available

[Save](#) [Message Seller](#)



 testing@gmail.com 22 hours, 26 minutes ago



iPhone \$50000.00

This phone is best

[View Details](#) Sold

[Save](#) [Message Seller](#)



23 hours, 23 minutes ago