

## Group-24

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# ‘Social Media Marketplace’: FCS Course Project

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

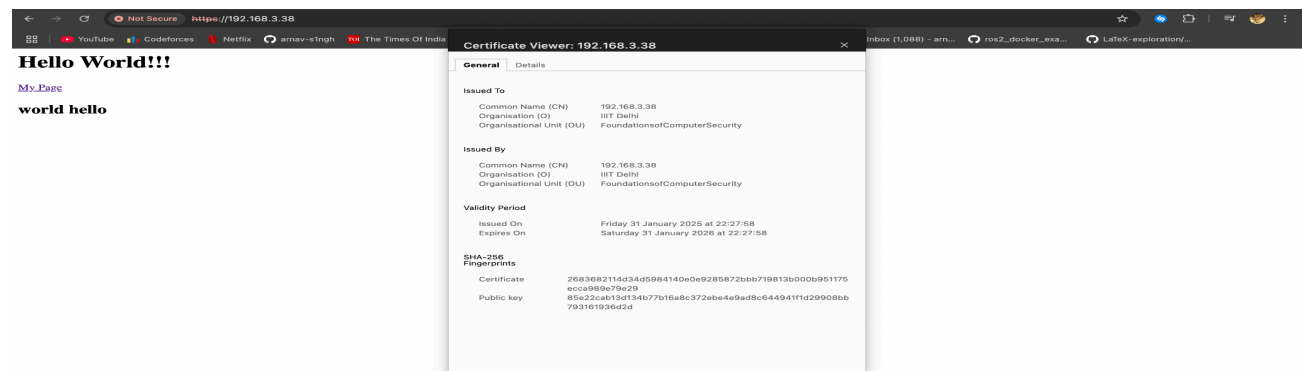
## March Milestone

### 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

```
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_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_0cd325b0_uniq" ON "auth_group_permissions" ("group_id", "permission_id");
CREATE INDEX "auth_group_permissions_group_id_b120cb9f" ON "auth_group_permissions" ("group_id");
CREATE INDEX "auth_group_permissions_permission_id_84cc909a" ON "auth_group_permissions" ("permission_id");
CREATE UNIQUE INDEX "auth_user_groups_user_id_group_id_94350c0c_uniq" ON "auth_user_groups" ("user_id", "group_id");
CREATE INDEX "auth_user_groups_user_id_6a12ed08" ON "auth_user_groups" ("user_id");
CREATE INDEX "auth_user_groups_group_id_97959944" ON "auth_user_groups" ("group_id");
CREATE UNIQUE INDEX "auth_user_user_permissions_user_id_permission_id_14a0b032_uniq" ON "auth_user_user_permissions" ("user_id", "permission_id");
CREATE INDEX "auth_user_user_permissions_user_id_895ead1b" ON "auth_user_user_permissions" ("user_id");
CREATE INDEX "auth_user_user_permissions_permission_id_1f60b92c" ON "auth_user_user_permissions" ("permission_id");
CREATE TABLE IF NOT EXISTS "django_admin_log" ("id" integer NOT NULL PRIMARY KEY AUTOINCREMENT, "object_repr" varchar(200) NOT NULL, "action_flag" smallint unsigned NOT NULL CHECK ("action_flag" >= 0), "change_message" text NOT NULL, "content_type_id" integer NULL REFERENCES "django_content_type" ("id") DEFERRABLE INITIALLY DEFERRED, "user_id" integer NOT NULL REFERENCES "auth_user" ("id") DEFERRABLE INITIALLY DEFERRED, "action_time" datetime NOT NULL);
CREATE INDEX "django_admin_log_content_type_id_c4b68db2" ON "django_admin_log" ("content_type_id");
CREATE INDEX "django_admin_log_user_id_c564bd61" ON "django_admin_log" ("user_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_76bd333b_uniq" ON "django_content_type" ("app_label", "model");
CREATE TABLE IF NOT EXISTS "auth_permission" ("id" integer NOT NULL PRIMARY KEY AUTOINCREMENT, "content_type_id" integer NOT NULL REFERENCES "django_content_type" ("id") DEFERRABLE INITIALLY DEFERRED, "codename" varchar(100) NOT NULL, "name" varchar(255) NOT NULL);
CREATE UNIQUE INDEX "auth_permission_content_type_id_codename_01ab375a_uniq" ON "auth_permission" ("content_type_id", "codename");
CREATE INDEX "auth_permission_content_type_id_2f47644b" ON "auth_permission" ("content_type_id");
CREATE TABLE IF NOT EXISTS "auth_group" ("id" integer NOT NULL PRIMARY KEY AUTOINCREMENT, "name" varchar(150) NOT NULL UNIQUE);
CREATE TABLE IF NOT EXISTS "auth_user" ("id" integer NOT NULL PRIMARY KEY AUTOINCREMENT, "password" varchar(128) NOT NULL, "last_login" datetime NULL, "is_superuser" bool NOT NULL, "username" varchar(150) NOT NULL UNIQUE, "last_name" varchar(150) NOT NULL, "first_name" varchar(150) NOT NULL, "is_staff" bool NOT NULL, "is_active" bool NOT NULL, "date_joined" datetime NOT NULL, "email" varchar(254) 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 UNIQUE 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, "content" blob NOT NULL);
CREATE INDEX "auth_app_message_receiver_id_d09a14fc" ON "auth_app_message" ("receiver_id");
CREATE INDEX "auth_app_message_sender_id_2f77ae88" 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_a5c62663" ON "django_session" ("expire_date");
```

```

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) |
-----

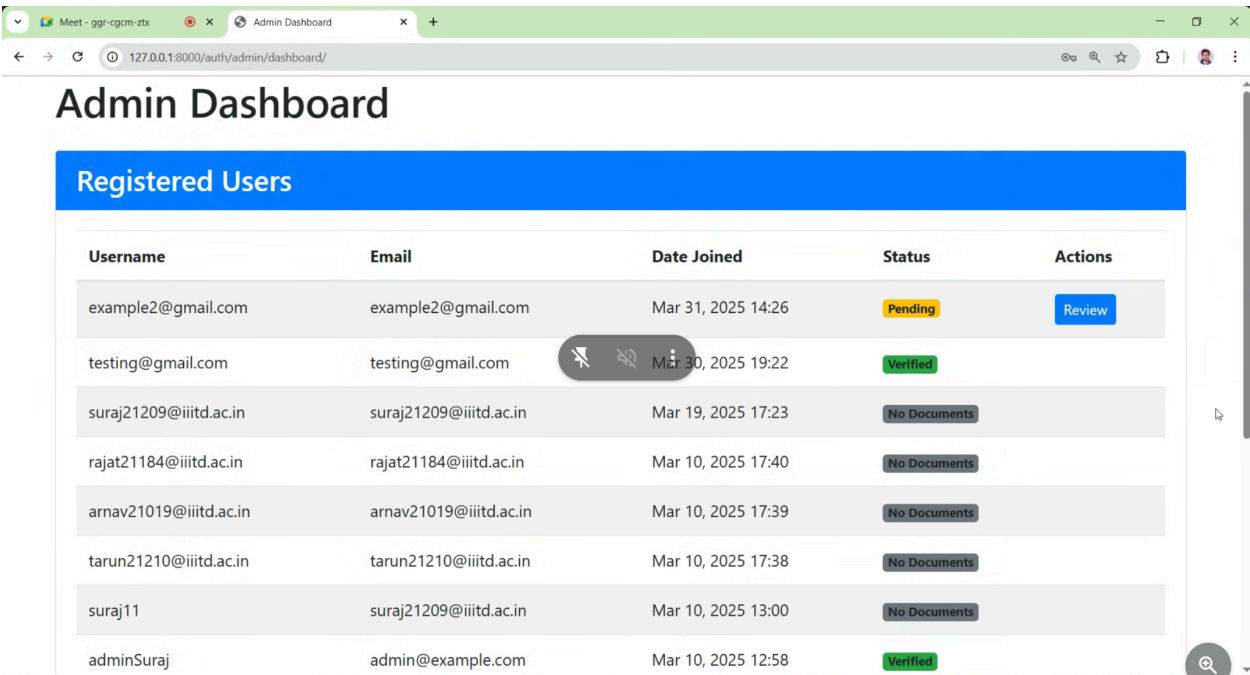
Table: auth_user_user_permissions
-----
| id | user_id | permission_id |
-----
| INTEGER PRIMARY KEY AUTOINCREMENT | INTEGER NOT NULL | REFERENCES auth_user(id) | INTEGER NOT NULL | REFERENCES auth_permission(id) |
-----

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(200) NOT NULL | SMALLINT UNSIGNED NOT NULL CHECK (action_flag >= 0) | TEXT NOT NULL | INTEGER NULL REFERENCES django_content_type(id) | INTEGER NOT NULL | DATETIME NOT NULL |
-----

```

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												
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Table: auth_app_profile												
-----												
id   profile_picture   user_id												
-----												
INTEGER PRIMARY KEY AUTOINCREMENT   VARCHAR(100) NOT NULL   INTEGER NOT NULL UNIQUE 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												

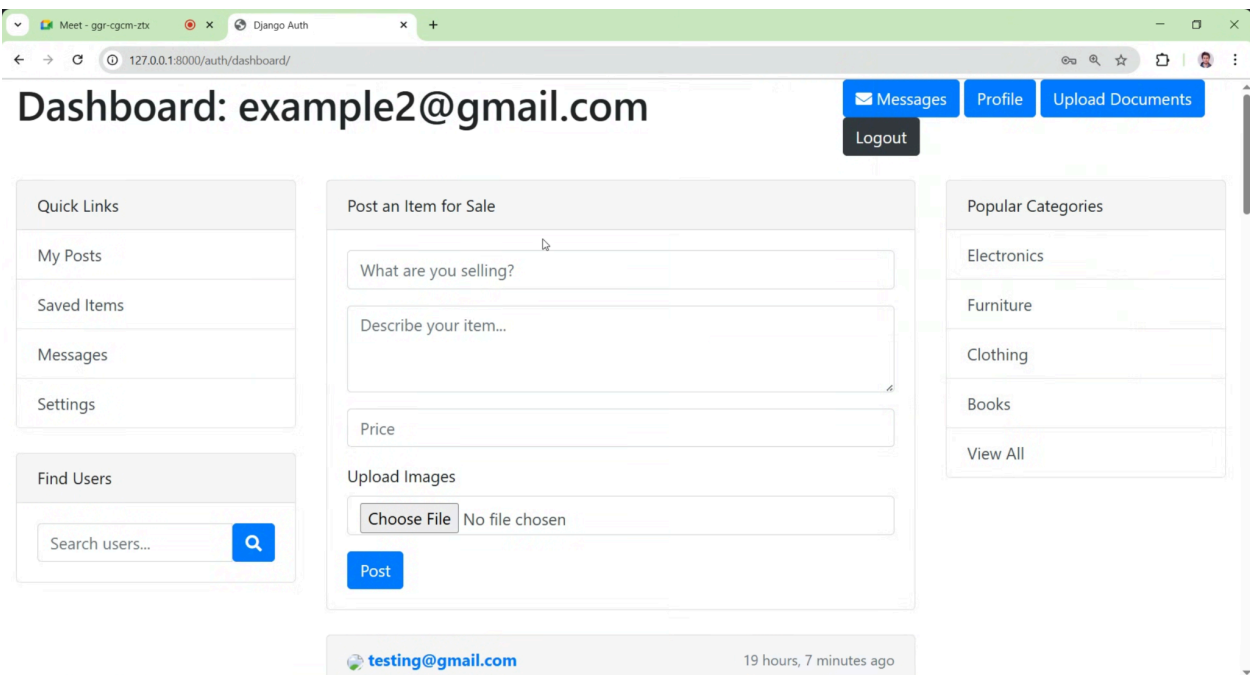
Screenshot of the admin dashboard



The screenshot shows a web browser window with the URL `127.0.0.1:8000/auth/admin/dashboard/`. The page title is "Admin Dashboard". Below the title is a blue header for "Registered Users". A table lists the following users:

Username	Email	Date Joined	Status	Actions
example2@gmail.com	example2@gmail.com	Mar 31, 2025 14:26	Pending	<a href="#">Review</a>
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	

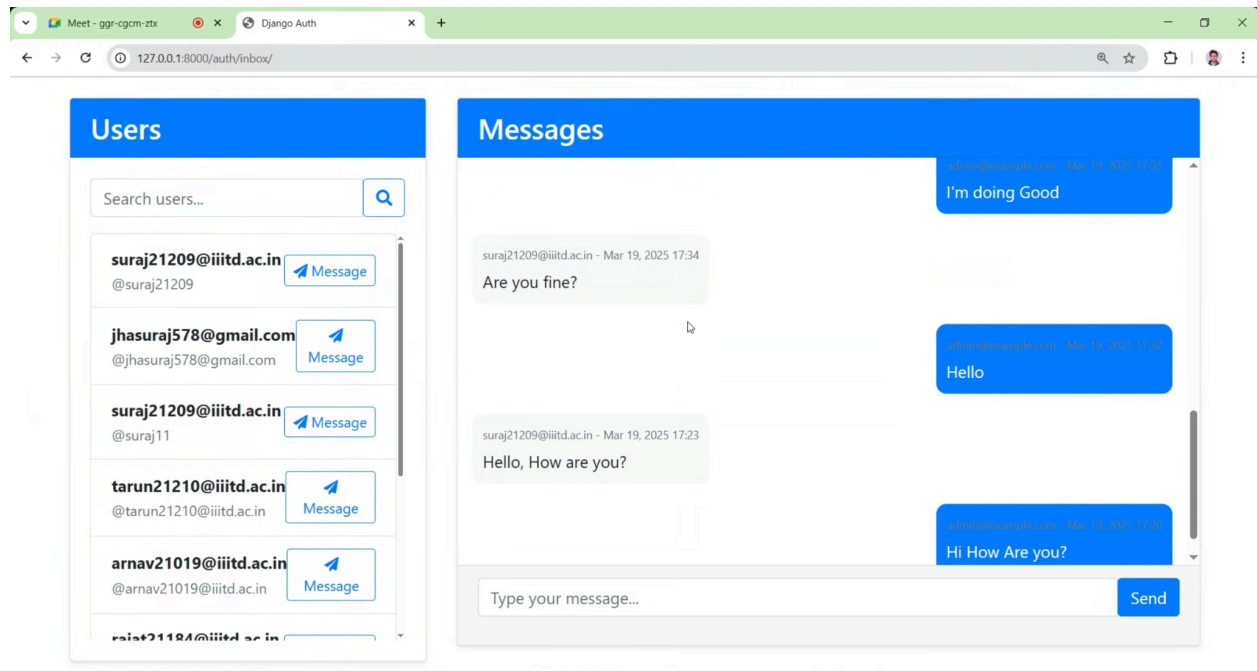
Screenshot of the user accessing advanced features after approval



The screenshot shows a web browser window with the URL `127.0.0.1:8000/auth/dashboard/`. The page title is "Dashboard: example2@gmail.com". The user is logged in as "testing@gmail.com" (19 hours, 7 minutes ago). The dashboard includes the following sections:

- Quick Links:** My Posts, Saved Items, Messages, Settings.
- Find Users:** Search users... (with a search icon).
- Post an Item for Sale:** A form with fields for "What are you selling?", "Describe your item...", "Price", and "Upload Images" (with a "Choose File" button and "No file chosen" text). A "Post" button is at the bottom.
- Popular Categories:** Electronics, Furniture, Clothing, Books, View All.
- Navigation:** Messages, Profile, Upload Documents, and Logout buttons.

## Screenshot of one-to-one messages



## Screenshot of the page for attaching images and videos

