

Group-24

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‘Social Media Marketplace’: FCS Course Project

10th March, 2025

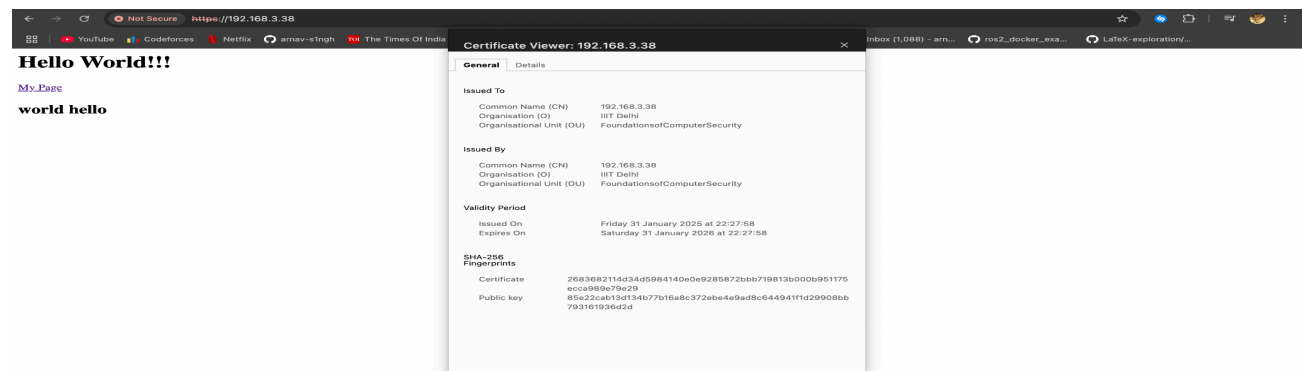
February Milestone

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_6cd325b8_uniq" ON "auth_group_permissions" ("group_id", "permission_id");
CREATE INDEX "auth_group_permissions_group_id_b128cb9f" ON "auth_group_permissions" ("group_id");
CREATE INDEX "auth_group_permissions_permission_id_84cd9c9a" ON "auth_group_permissions" ("permission_id");
CREATE UNIQUE INDEX "auth_user_groups_user_id_group_id_94358c0c_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_978599da" 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_1f6b9f2c" 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_c564bd6b" 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												

Table: auth_app_profile												

id profile_picture user_id												

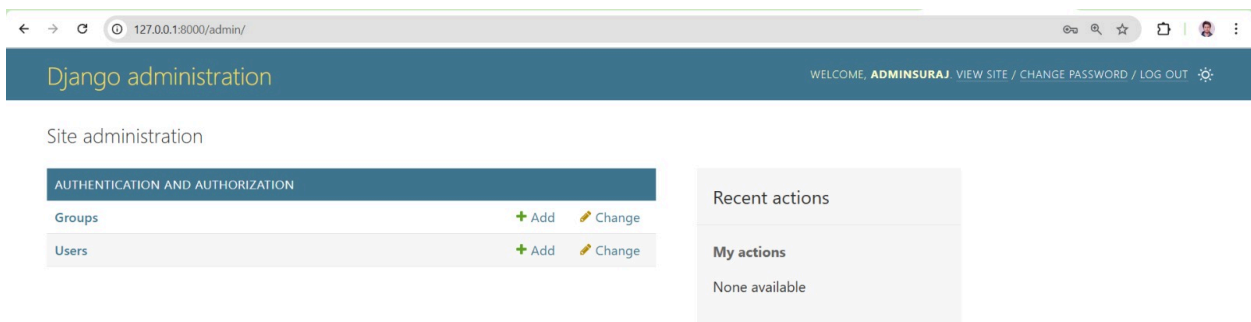
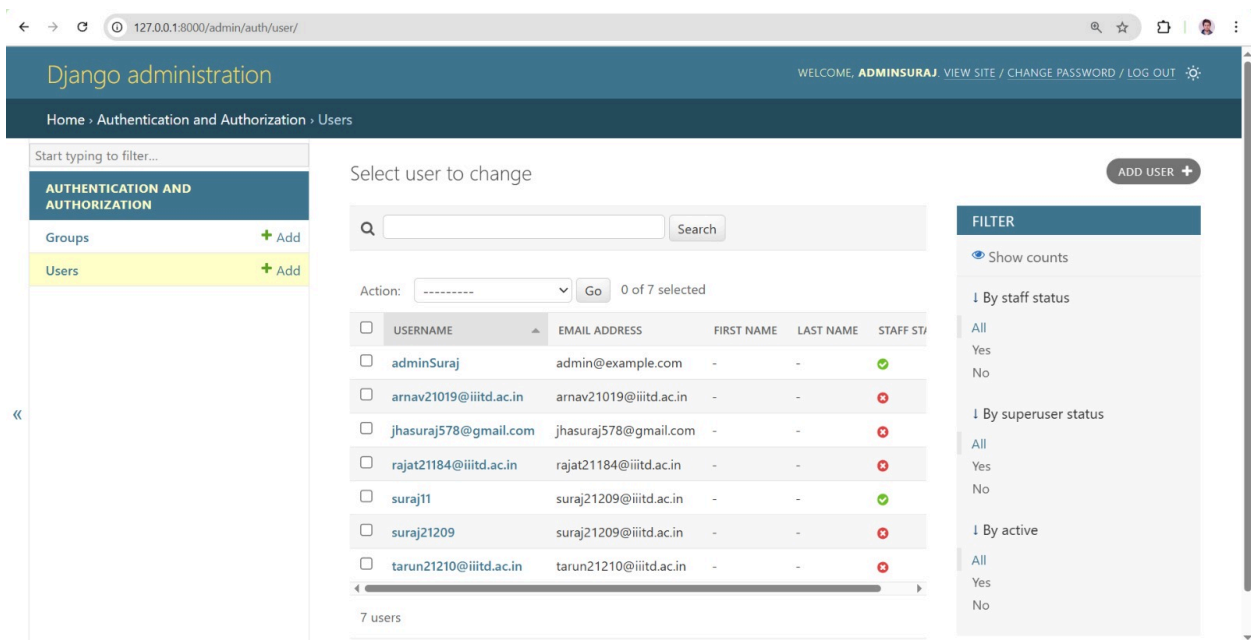
INTEGER PRIMARY KEY AUTOINCREMENT VARCHAR(100) NOT NULL INTEGER NOT NULL UNIQUE REFERENCES auth_user(id)												

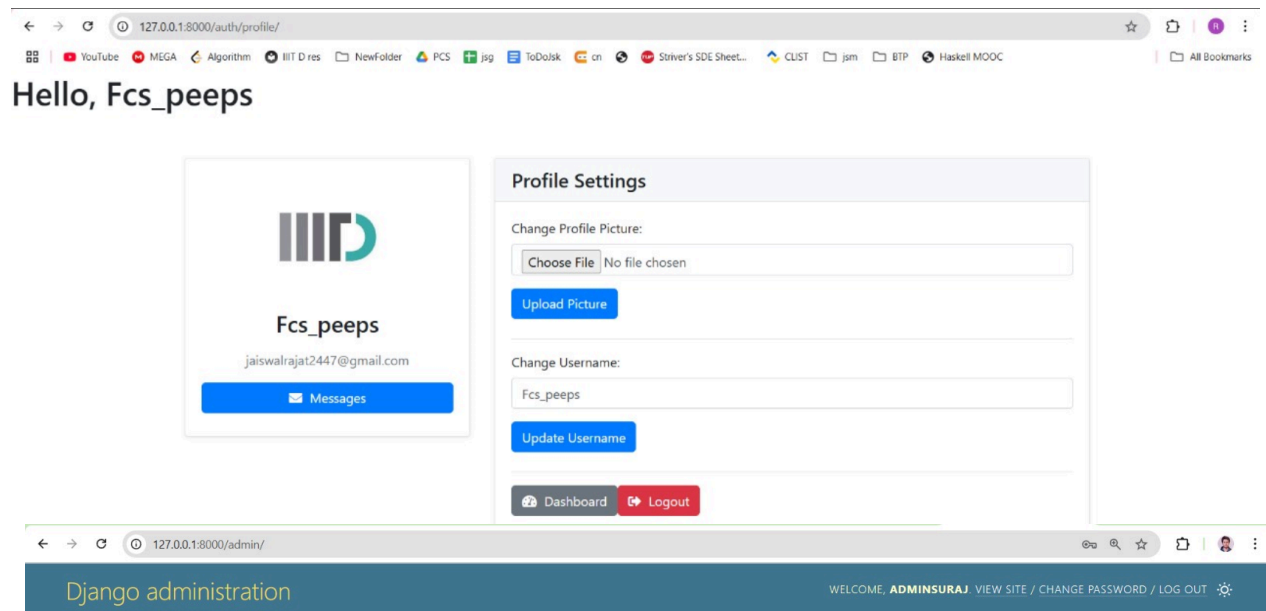
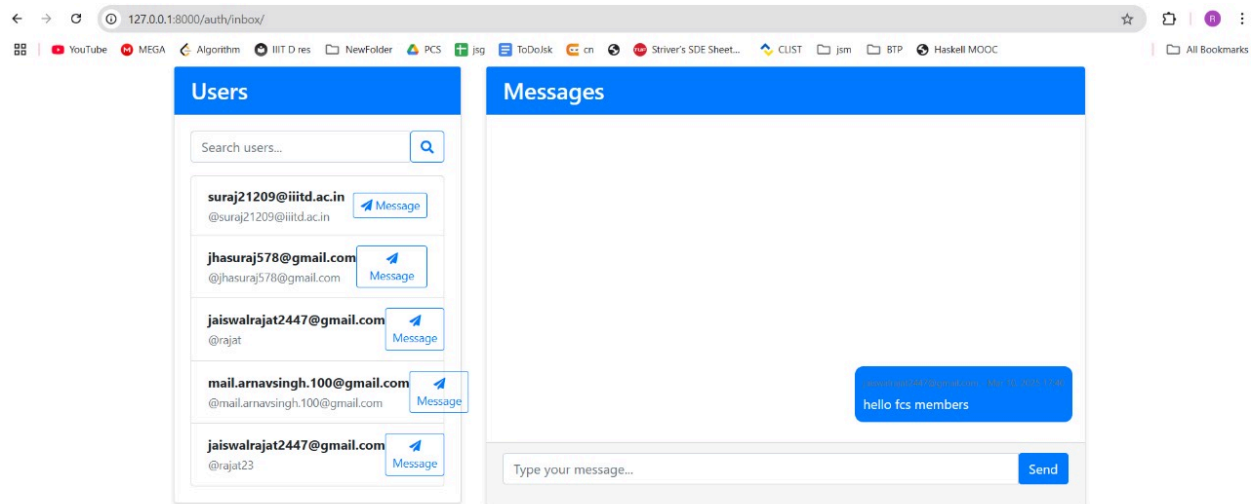
Table: auth_app_message												

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												

Screenshots of the admin dashboard





Site administration

AUTHENTICATION AND AUTHORIZATION

Groups	+ Add Change
Users	+ Add Change

Recent actions

My actions

None available

Messages

I'm doing Good

suraj21209@iiitd.ac.in - Feb 24, 2025 09:34

Hi

jhasuraj578@gmail.com - Feb 24, 2025 09:34

Are you fine?

jhasuraj578@gmail.com - Feb 24, 2025 09:33

How are you?

jhasuraj578@gmail.com - Feb 24, 2025 09:33

Hello

Type your message...

Send