Technology Stack Used-

* Backend (Server-Side) – Python Django Framework
* Frontend (Client-Side) – HTML, JavaScript, CSS
* Database – SQL Lite
* Some JavaScript Wrappers- Particle.js, Chart.js etc.

To setup the Project-

BUILDING THE PROJECT

STEP 1: Open “mtassignment” Project with visual studio, atom, IntelliJ etc .

STEP 2: Open up terminal and type ‘python manage.py run server’ , keep the root directory in place and run this command. Refer the below snippet.

STEP 3: After running the server successfully go to ‘ http://127.0.0.1:8000/ ’ on a google chrome or Internet Explorer

In case any error is encountered while running, then either dependencies are not installed or some header files are missing. Try installing all the supporting files like ‘pip install django’ etc. Refer the below snippet.

You should land up here , if all goes well---- This is our Login Page - aka -Sign Up Page.

A screen shot of a social media post

Description automatically generated

**Populating Models by Admin-**

STEP1: Go to ‘ <http://127.0.0.1:8000/admin/> ‘ and login as admin using credentials provided in the text document attached

STEP2: As all the models are registered with Admin , he can add/delete any fields for the Users, Firstly Add User as he has foreign key linked with every other table , after that in Leaders there are 4 Tables – Extended Users , Levels , Tests, User Scores , Populate all the fields as per your choice.

Refer the below snippet.

STEP3: If you wish to change the change the model then don’t forget to apply migrations! By using command make migrations followed by migrate every time you modify the model makes it safe to incorporate the changes. Refer the below snippet.

A screenshot of a cell phone

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**View the Leader Board –**

STEP1: After successful signup or login you will be directed to page ‘<http://127.0.0.1:8000/tests/>’ , there you will have two choices whether to view the Leader Board in Chart Format or in Table Format. Refer the below snippet.

STEP2: If you wish to logout, on the right hand corner you might see Logout Button on the Navbar, click on it to safely sign out . Refer the below snippet.

A screenshot of a cell phone

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**Execution Flow–**

Refer the High Level Design Snippet attached with the Project, to have a clarity of the Execution flow.