

# IMPLEMENTATION DOCUMENTATION

## Hardware Requirements:

1. Processor: i3, i5, i7 processor
2. RAM: 4GB+
3. Hard Disk: 20GB+

## Software Requirements:

1. Operating System : Windows 8 and above
2. Frontend Technology : Html, CSS, Bootstrap, Java Script
3. Backend Technology :  
Python(<https://www.python.org/downloads/>)
4. Framework : Django
5. Database : Mysql(<https://www.mysql.com/downloads/>)
6. IDE : VS Code(<https://code.visualstudio.com/download>)

## Steps of implementation:

1. Modules should be installed in python:

- `C:\Users\USER>pip install pillow`
- `C:\Users\USER>pip install mysql`
- `C:\Users\USER>pip install passlib`
- `C:\Users\USER>pip install matplotlib_`
- `C:\Users\USER>pip install mysql.connector`
- `C:\Users\USER>pip install django`

2. Download the Q\_projects.zip file which is attached along with this document.
3. Unzip the file in the desired location
4. Open Q\_projects folder with VS Code.
5. Open settings.py file and enter your database credentials in DATABASE block and create the database in Mysql with name mentioned in settings.py.
  - CREATE DATABASE quality;

```
DATABASES = {
    'default': {
        'ENGINE': 'django.db.backends.mysql',
        'NAME': "quality",
        'USER': "root",
        'PASSWORD': "admin",
        'HOST': "localhost",
        'PORT': 3306    }
}
```

6. Run Make migrations:

```
python manage.py makemigrations
```

7. Run migrate to create tables in database using models.py.

```
python manage.py migrate
```

8. Add login details into table named “q\_app\_logindetails” with designations as “superadmin” for Super admin and “user” for User using command given below

- insert into q\_app\_logindetails values(id, username, password, role, mail);

9. Enter runserver command to start the app.

```
python manage.py runserver
```

10. After hitting above commands, web application is deployed using Django and URL displayed in the terminal.

```
System check identified no issues (0 silenced).
March 29, 2023 - 17:24:58
Django version 4.1.7, using settings 'QP3.settings'
Starting development server at http://127.0.0.1:8000/
Quit the server with CTRL-BREAK.
```

11. Open the URL in browser and the web application runs in browser.

12. Username and password for Superadmin and user are given below:

- Username: superadmin, password: super.
- Username: user, password: user.