1. Applications needed to run the code :

No.	Application	Version	Description
1	Python	3.7.3	*Python* is an interpreted, high-level and general-purpose programming language. Python's design philosophy emphasizes code readability with its notable use of significant whitespace.
2	Flask	1.0.2	*Flask* is a lightweight WSGI web application framework written in Python. It is designed to make getting started quick and easy, with the ability to scale up to complex applications.
3	SQL-Alchemy	2.4.1	*SQLAlchemy* is the Python SQL toolkit and Object Relational Mapper that gives application developers the full power and flexibility of SQL.
4	HTML	5	*HTML5* is a markup language used for structuring and presenting content on the World Wide Web. It is the fifth and last major *HTML* version that is a World Wide Web Consortium (W3C) recommendation.

2. How to install and run the code :
Step I : Installing Python :
sudo apt update
sudo apt -y upgrade
sudo apt install -y python3-pip

Step II : Installing Flask :
On Linux, virtualenv is provided by your package manager:

    //Debian, Ubuntu
    $ sudo apt-get install python-virtualenv
    //CentOS, Fedora
    $ sudo yum install python-virtualenv
    //Arch
    $ sudo pacman -S python-virtualenv

mkdir myproject
cd myproject

```
python3 -m venv venv
. venv/bin/activate
$ pip install Flask
```

Step III : Installing SQL-Alchemy :

```
$ pip install sqlalchemy
```

Step IV : Clone the repository from github using the command -

```
$ git clone https://github.com/sayalideo/RBAC-Implementation
```

Step V : Installing other Dependencies :

```
$ pip install bcrypt
$ pip install flask-login
$ pip install flask-wtf
```

Step VI : Run the code using :

```
$ python run.py
Or
$ flask run
```

Now, view the running application on *localhost:5000*

3. Any other specifications about dependent applications :

No.	Dependency	Version	Description
1	Flask-Bcrypt	0.7.1	*Flask-Bcrypt* is a Flask extension that provides bcrypt hashing utilities for your application.
2	Flask-Login	0.5.0	*Flask-Login* provides user session management for Flask. It handles the common tasks of logging in, logging out, and remembering your users' sessions
3	Flask-WTF	0.14.3	*Flask-WTF* provides your Flask application integration with WTForms.

4. Settings of your code and dependent application :

$ pip install bcrypt

$ pip install flask-login

$ pip install flask-wtf

Technology Stack :

     i.   Browser : Google Chrome, Firefox, etc.

    ii.   Code Editor : Visual Studio Code, Sublime Text, etc.

   iii.   Version Control : Github for Desktop, Gitkraken, etc.

   iv.   Technology Stack :

        1. Frontend : HTML, CSS, Jinja 2 Templates

        2. Backend : Python Flask Framework.

        3. Database : SQLAlchemy - A Python SQL toolkit

Change directory into the cloned project.

On the terminal type : flask run

View working project on *localhost:5000*