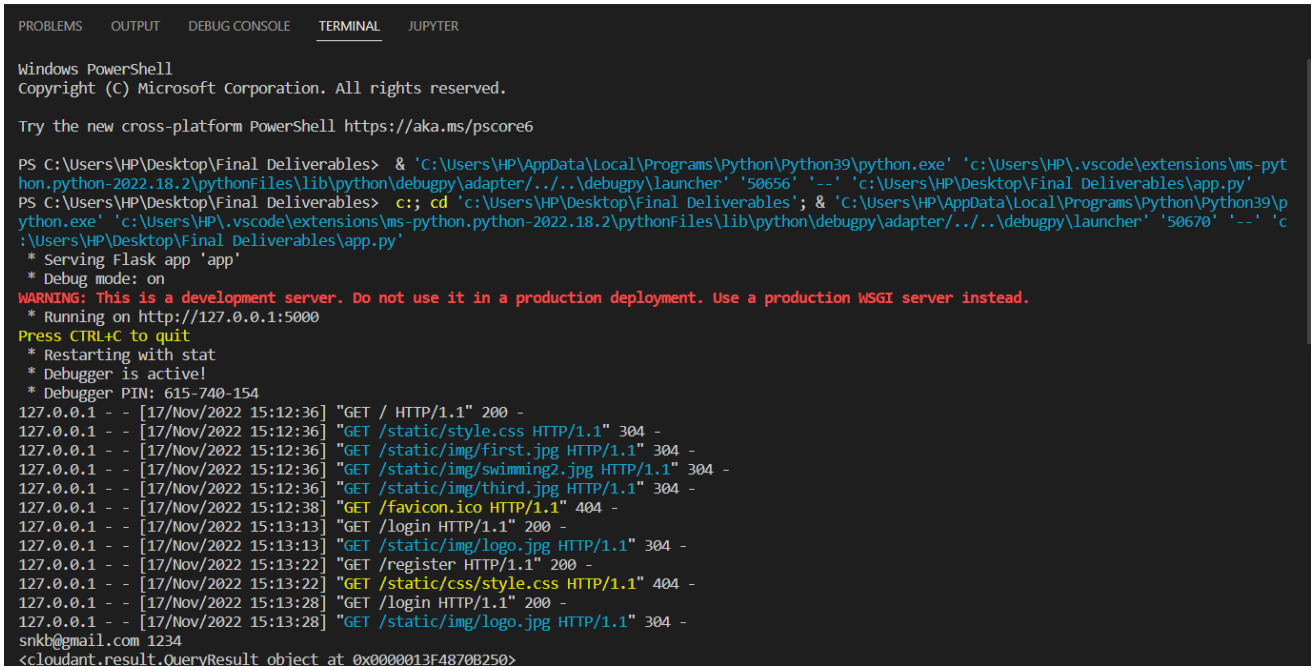
PROJECT DEVELOPMENT PHASE

DELIVERY OF SPRINT 4

Team ID	PNT2022TMID16644
Project Name	Virtual Eye - Life Guard for Swimming Pools ToDetect Active Drowning
Maximum Marks	4Marks

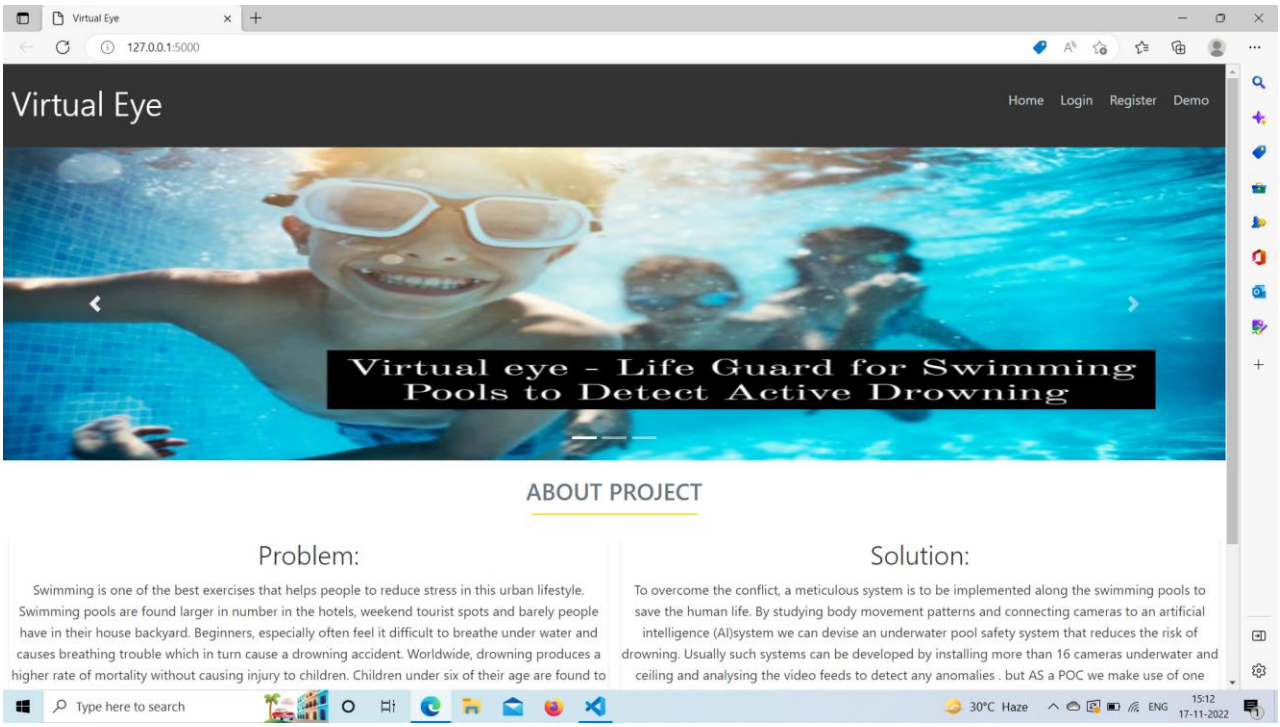
1. Run the application:

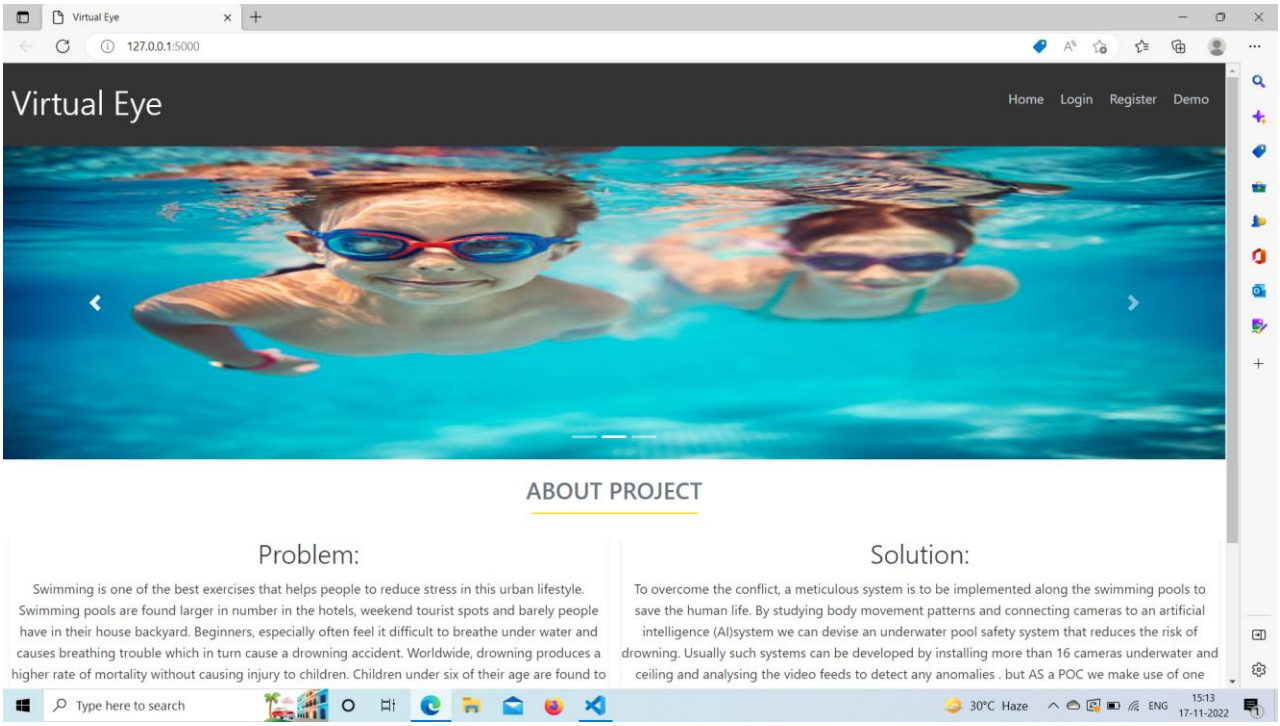
In the command prompt, navigate to the folder in which the flask app is present. When the python file is executed the localhost is activated on 5000 port and can be accessed through it.



2. Open the browser and navigate to http://127.0.0.1:5000 to check your application

The home page looks like this. You can click on login or register


Virtual Eye
127.0.0.1:5000
Virtual Eye
Home Login Register Demo
Virtual eye - Life Guard for Swimming Pools to Detect Active Drowning
ABOUT PROJECT
Problem:
Swimming is one of the best exercises that helps people to reduce stress in this urban lifestyle. Swimming pools are found larger in number in the hotels, weekend tourist spots and barely people have in their house backyard. Beginners, especially often feel it difficult to breathe under water and causes breathing trouble which in turn cause a drowning accident. Worldwide, drowning produces a higher rate of mortality without causing injury to children. Children under six of their age are found to
Solution:
To overcome the conflict, a meticulous system is to be implemented along the swimming pools to save the human life. By studying body movement patterns and connecting cameras to an artificial intelligence (AI)system we can devise an underwater pool safety system that reduces the risk of drowning. Usually such systems can be developed by installing more than 16 cameras underwater and ceiling and analysing the video feeds to detect any anomalies . but AS a POC we make use of one
Type here to search
30°C Haze
ENG
15:12
17-11-2022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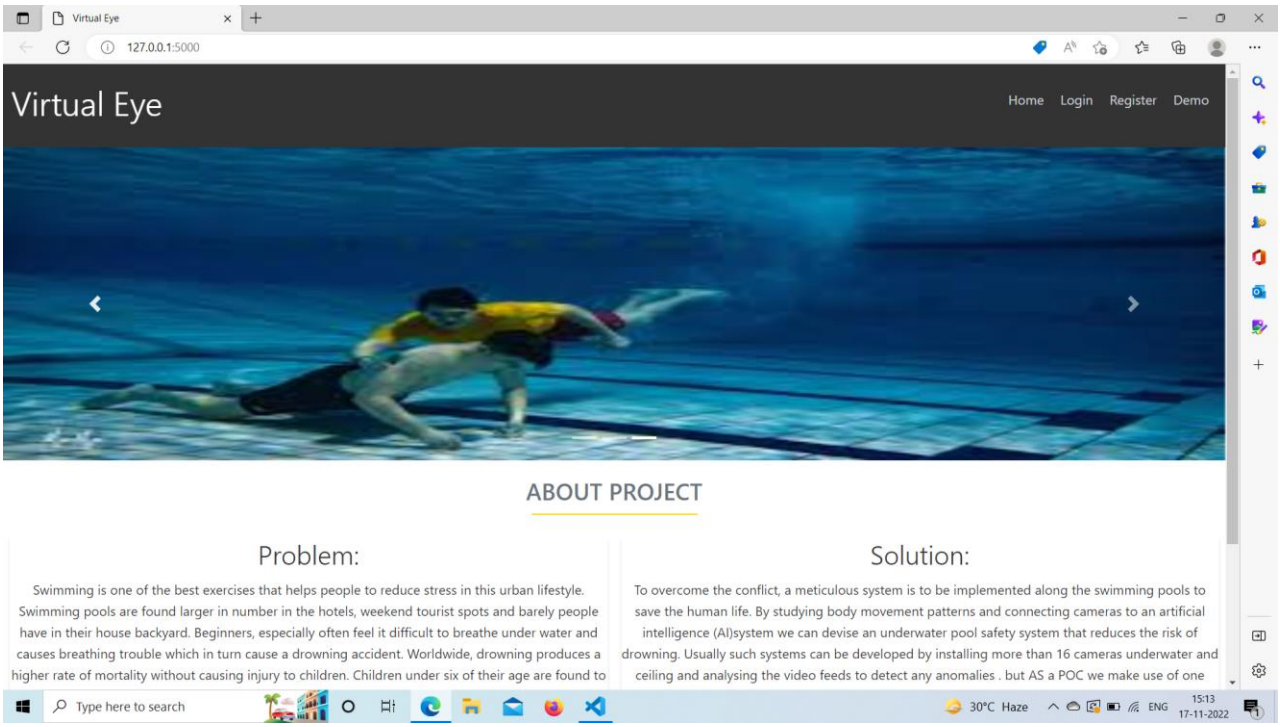
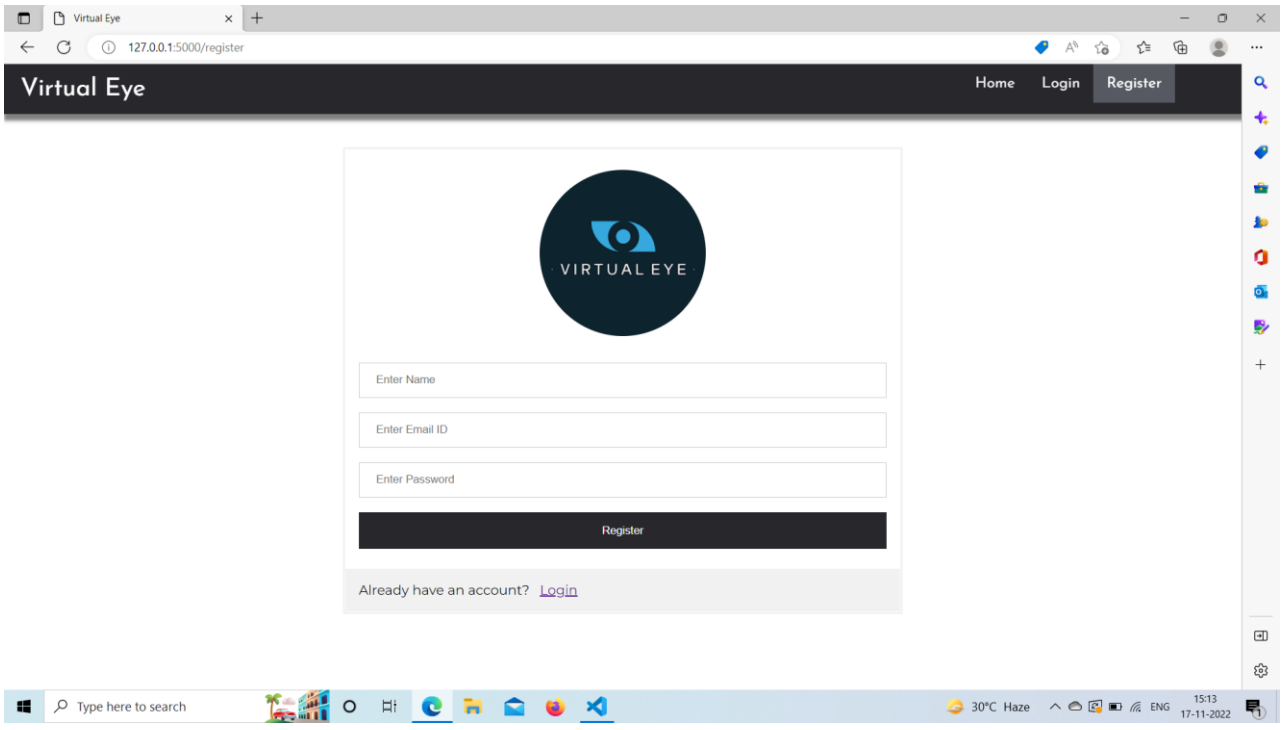
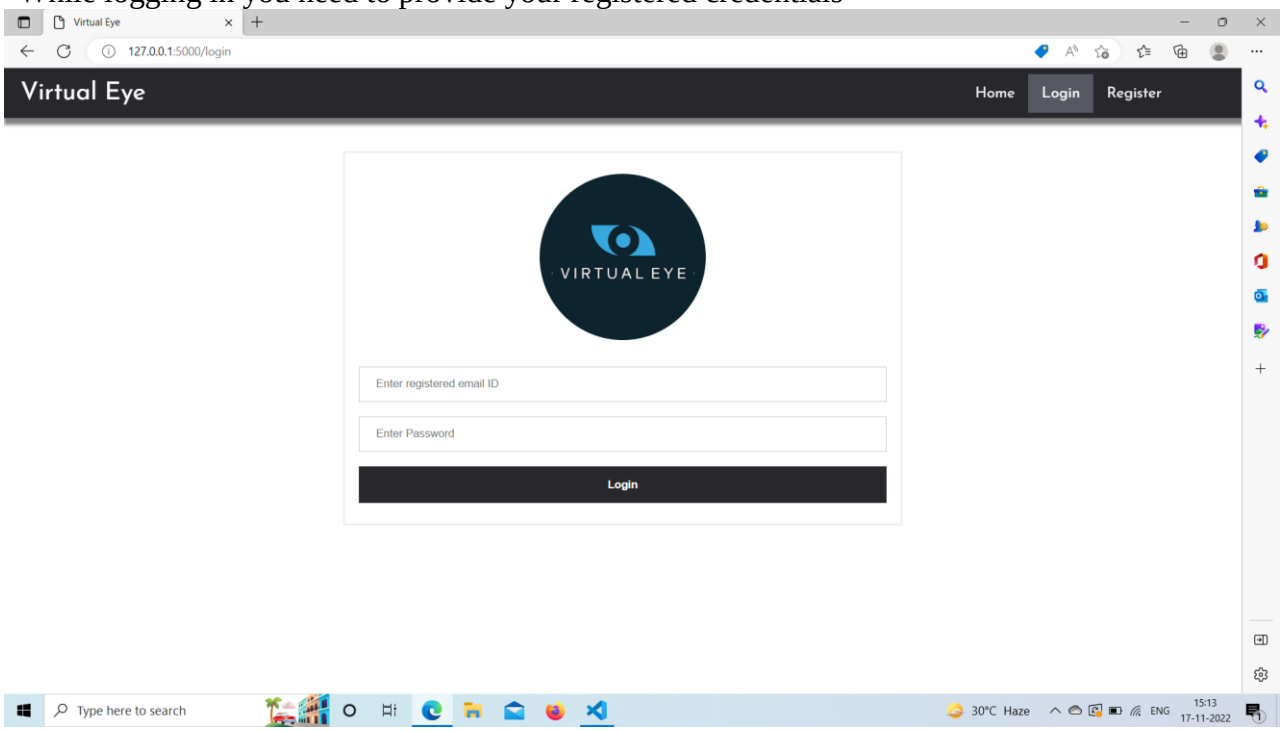
30°C Haze
ENG
15:13
17-11-2022



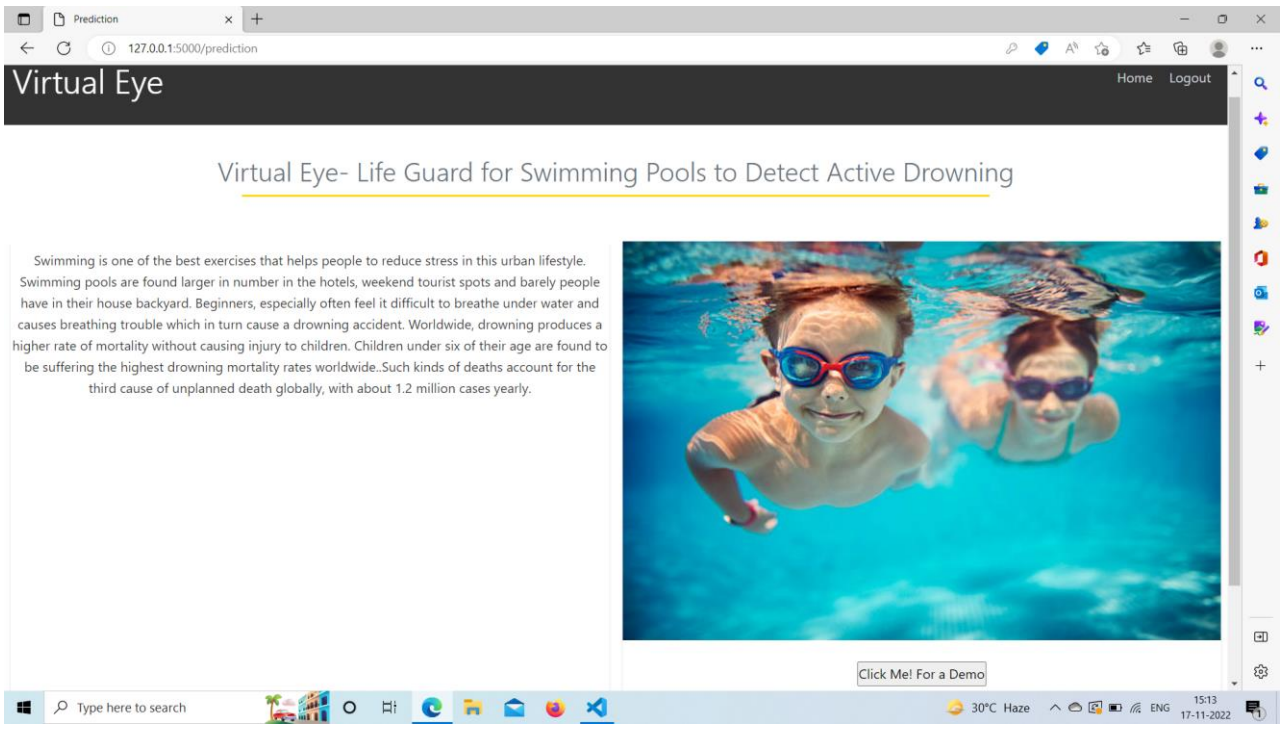
You need to register to the portal



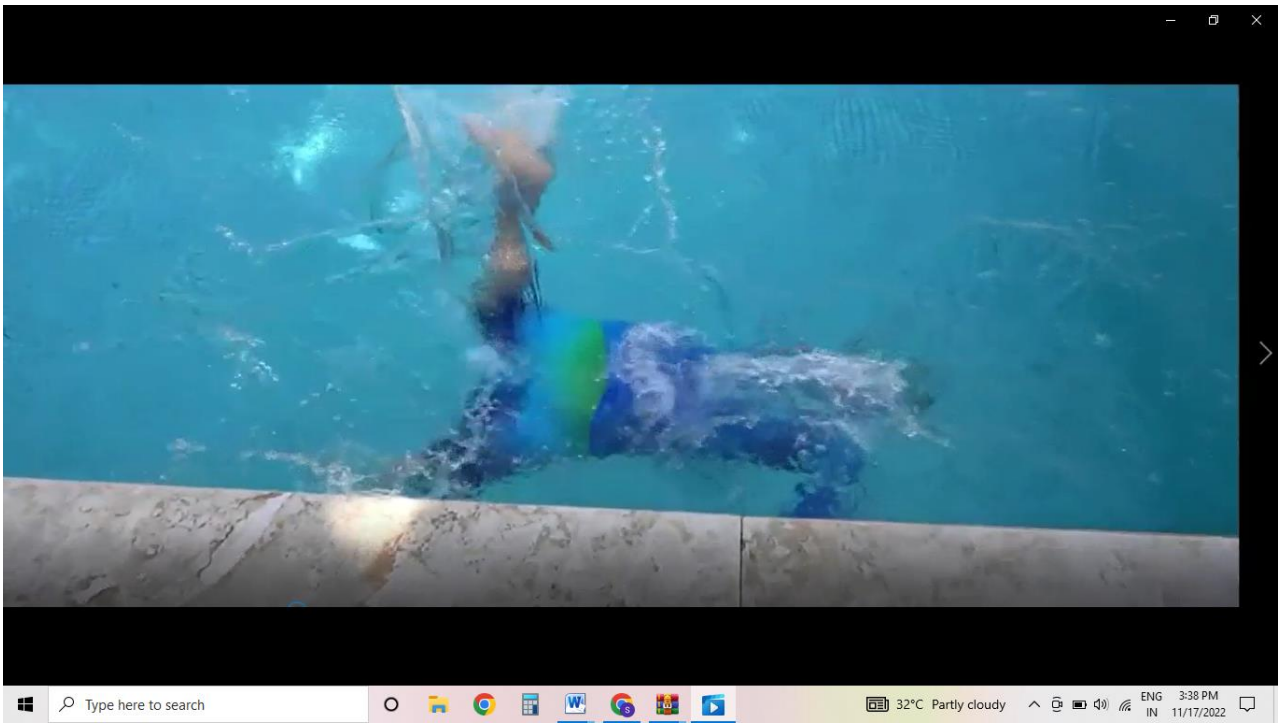
While logging in you need to provide your registered credentials

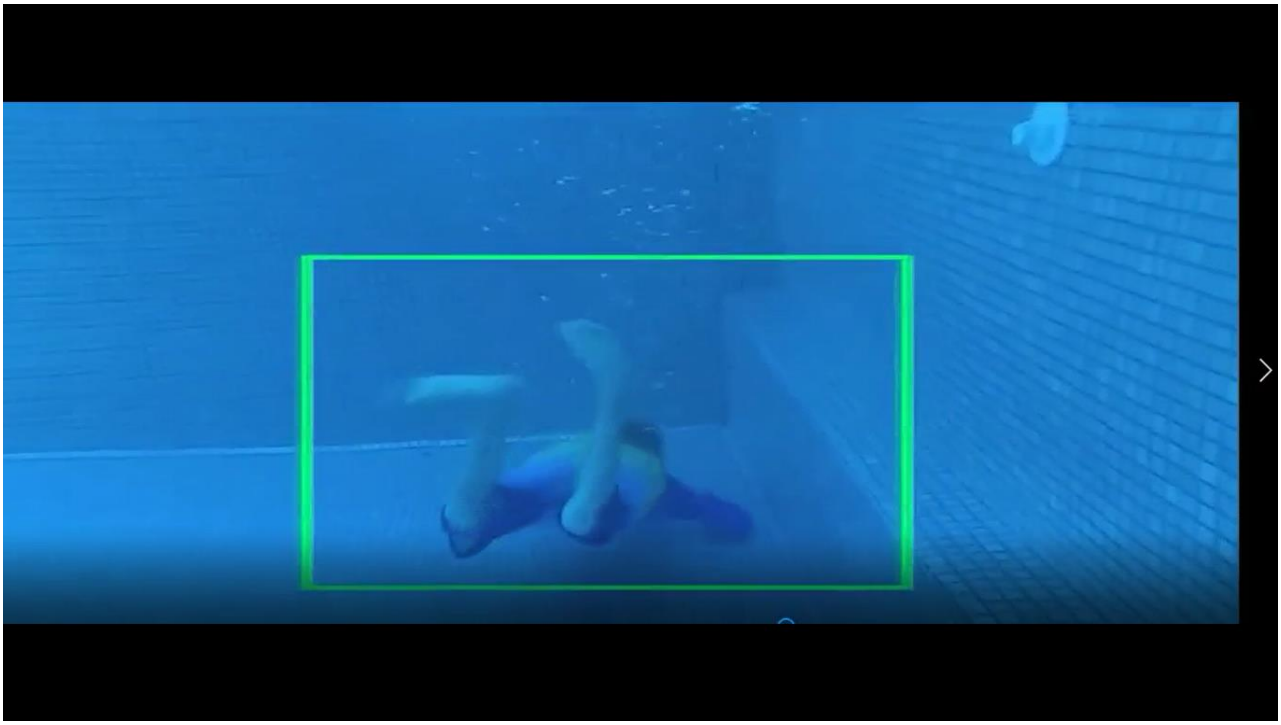


After successfully login you will redirect to the prediction page where we have to click on the demo button tolaunch the open cv window for video analysis.



Output:





```
1
127.0.0.1 - - [14/Nov/2022 19:16:41] "POST /afterlogin HTTP/1.1" 302 -
127.0.0.1 - - [14/Nov/2022 19:16:41] "GET /prediction HTTP/1.1" 200 -
127.0.0.1 - - [14/Nov/2022 19:16:42] "GET /static/style.css HTTP/1.1" 304 -
127.0.0.1 - - [14/Nov/2022 19:16:42] "GET /static/js/JScript.js HTTP/1.1" 304 -
127.0.0.1 - - [14/Nov/2022 19:16:42] "GET /static/img/second.jpg HTTP/1.1" 304 -
5.816675424575806 s
bbox:  [[114, 112, 804, 372]] centre: [459.0, 242.0] centre0: [0. 0.]
Is he drowning:  False
4.5444793701171875 s
bbox:  [[114, 112, 804, 372]] centre: [459.0, 242.0] centre0: [459.0, 242.0]
Is he drowning:  False
8.752950429916382 s
bbox:  [[114, 112, 804, 372]] centre: [459.0, 242.0] centre0: [459.0, 242.0]
Is he drowning:  False
12.785400867462158 s
bbox:  [[120, 112, 800, 372]] centre: [460.0, 242.0] centre0: [459.0, 242.0]
Is he drowning:  True
```