

Date	30 OCTOBER 2022
Team ID	PNT2022TMID28900
Project Name	Virtual eye – lifeguard for swimming pool to Detect Active Drowning

## Run The Application

### Run the application

- Open the anaconda prompt from the start menu
- Navigate to the folder where your python script is.
- Now type the “python app.py” command
- Navigate to the localhost where you can view your web page.
- Click on the predict button from the top right corner, enter the inputs, click on the submit button, and see the result/prediction on the web.

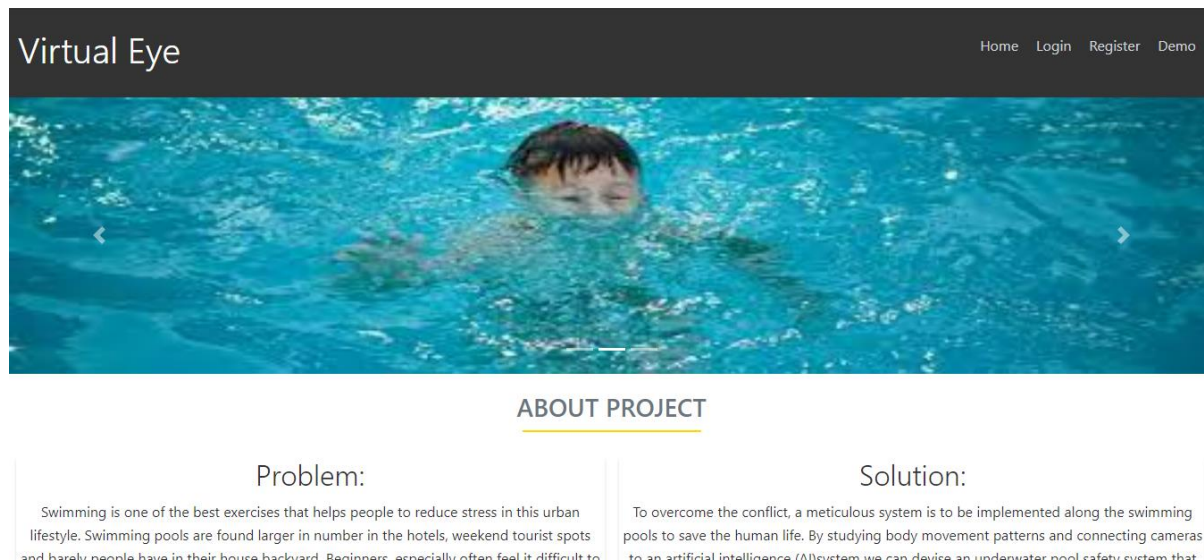
### 1: Run the application

**In the anaconda 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.**

```
(yoloenv) C:\Users\HP\Desktop\Drowning-Detector-master\Drowning detect Flask>python app.py
* Serving Flask app 'app' (lazy loading)
* Environment: production
  WARNING: This is a development server. Do not use it in a production deployment.
  Use a production WSGI server instead.
* Debug mode: on
WARNING: Logging before flag parsing goes to stderr.
I0408 11:41:18.124544 1652 _internal.py:225] * Restarting with stat
WARNING: Logging before flag parsing goes to stderr.
W0408 11:41:31.445689 14384 _internal.py:225] * Debugger is active!
I0408 11:41:31.454634 14384 _internal.py:225] * Debugger PIN: 523-440-810
I0408 11:41:32.566401 15416 _internal.py:225] * Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
```

**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**



**While logging in you need to provide your registered credentials,**

[Login](#)

**After successfully login you will redirect to the prediction page where we have to click on the demo button to launch the opencv window for video analysis..**

## Virtual Eye- Life Guard for Swimming Pools to Detect Active Drowning

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 be suffering the highest drowning mortality rates worldwide..Such kinds of deaths account for the third cause of unplanned death globally, with about 1.2 million cases yearly.

[Click Me! For a Demo](#)


## Output:-

Virtual Eye

Home Logout

### Virtual Eye- Life Guard for Swimming Pools to Detect Active Drowning

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Click Me! For a Demo

**Emergency !!! The Person is drowning**

Anaconda Prompt (anaconda3) - python app.py

```
4.02861762046814 s
bbox: [[166, 96, 794, 370]] centre: [480.0, 233.0] centre0: [470.0, 236.0]
Is he drowning: False
4.574029445648193 s
bbox: [[166, 93, 796, 371]] centre: [481.0, 232.0] centre0: [480.0, 233.0]
Is he drowning: False
5.051610946655273 s
bbox: [[166, 94, 798, 370]] centre: [482.0, 232.0] centre0: [481.0, 232.0]
Is he drowning: False
5.515615463256836 s
bbox: [[164, 95, 800, 371]] centre: [482.0, 233.0] centre0: [482.0, 232.0]
Is he drowning: False
6.090612888336182 s
bbox: [[166, 94, 798, 370]] centre: [482.0, 232.0] centre0: [482.0, 233.0]
Is he drowning: False
6.596614599227905 s
bbox: [[166, 94, 798, 370]] centre: [482.0, 232.0] centre0: [482.0, 232.0]
Is he drowning: False
7.055608510971069 s
bbox: [[166, 94, 800, 370]] centre: [483.0, 232.0] centre0: [482.0, 232.0]
Is he drowning: False
7.511607885360718 s
bbox: [[165, 94, 799, 372]] centre: [482.0, 233.0] centre0: [483.0, 232.0]
Is he drowning: False
7.941608190536499 s
bbox: [[165, 94, 801, 372]] centre: [483.0, 233.0] centre0: [482.0, 233.0]
Is he drowning: False
8.402607202529907 s
bbox: [[164, 95, 802, 371]] centre: [483.0, 233.0] centre0: [483.0, 233.0]
Is he drowning: False
8.862607717514038 s
bbox: [[164, 95, 800, 371]] centre: [482.0, 233.0] centre0: [483.0, 233.0]
Is he drowning: False
9.315605878829956 s
bbox: [[164, 94, 800, 372]] centre: [482.0, 233.0] centre0: [482.0, 233.0]
Is he drowning: False
9.766611576080322 s
bbox: [[163, 94, 801, 372]] centre: [482.0, 233.0] centre0: [482.0, 233.0]
Is he drowning: False
10.213610649108887 s
bbox: [[164, 94, 802, 372]] centre: [483.0, 233.0] centre0: [482.0, 233.0]
Is he drowning: True
E0408 11:44:51.929189 8308 playsound.py:63]
```