

APPLICATION BUILDING

RUN THE APPLICATION

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.

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\HP\Desktop\Final Deliverables> & 'C:\Users\HP\AppData\Local\Programs\Python\Python39\python.exe' 'c:\Users\HP\.vscode\extensions\ms-python.python-2022.18.2\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '50656' '--' 'c:\Users\HP\Desktop\Final Deliverables\app.py'
PS C:\Users\HP\Desktop\Final Deliverables> c:: cd 'c:\Users\HP\Desktop\Final Deliverables'; & 'C:\Users\HP\AppData\Local\Programs\Python\Python39\python.exe' 'c:\Users\HP\.vscode\extensions\ms-python.python-2022.18.2\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '50670' '--' 'c:\Users\HP\Desktop\Final Deliverables\app.py'
* Serving Flask app 'app'
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 615-740-154
127.0.0.1 - - [17/Nov/2022 15:12:36] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [17/Nov/2022 15:12:36] "GET /static/style.css HTTP/1.1" 304 -
127.0.0.1 - - [17/Nov/2022 15:12:36] "GET /static/img/first.jpg HTTP/1.1" 304 -
127.0.0.1 - - [17/Nov/2022 15:12:36] "GET /static/img/swimming2.jpg HTTP/1.1" 304 -
127.0.0.1 - - [17/Nov/2022 15:12:36] "GET /static/img/third.jpg HTTP/1.1" 304 -
127.0.0.1 - - [17/Nov/2022 15:12:38] "GET /favicon.ico HTTP/1.1" 404 -
127.0.0.1 - - [17/Nov/2022 15:13:13] "GET /login HTTP/1.1" 200 -
127.0.0.1 - - [17/Nov/2022 15:13:13] "GET /static/img/logo.jpg HTTP/1.1" 304 -
127.0.0.1 - - [17/Nov/2022 15:13:22] "GET /register HTTP/1.1" 200 -
127.0.0.1 - - [17/Nov/2022 15:13:22] "GET /static/css/style.css HTTP/1.1" 404 -
127.0.0.1 - - [17/Nov/2022 15:13:28] "GET /login HTTP/1.1" 200 -
127.0.0.1 - - [17/Nov/2022 15:13:28] "GET /static/img/logo.jpg HTTP/1.1" 304 -
snkb@gmail.com 1234
<cloudant.result.QueryResult object at 0x0000013F4870B250>
```


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

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

Virtual Eye

127.0.0.1:5000

Home Login Register Demo



Virtual eye - Life Guard for Swimming Pools to Detect Active Drowning

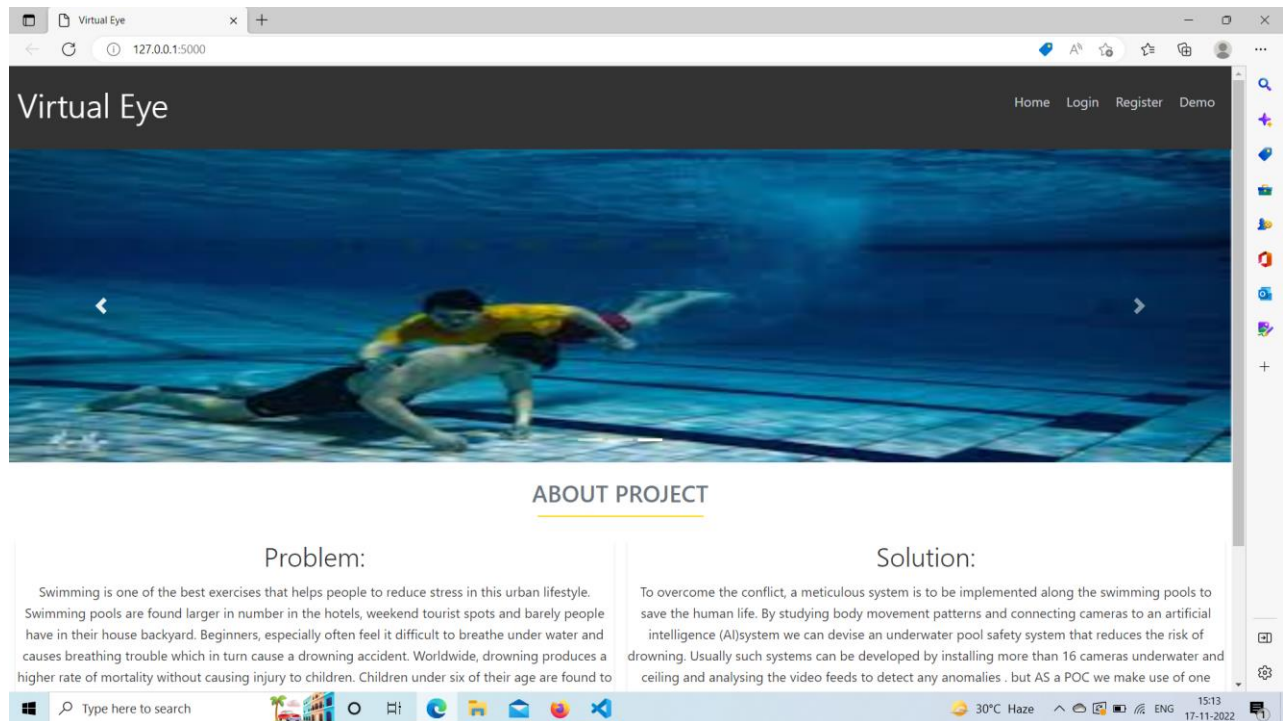
ABOUT PROJECT

Problem:

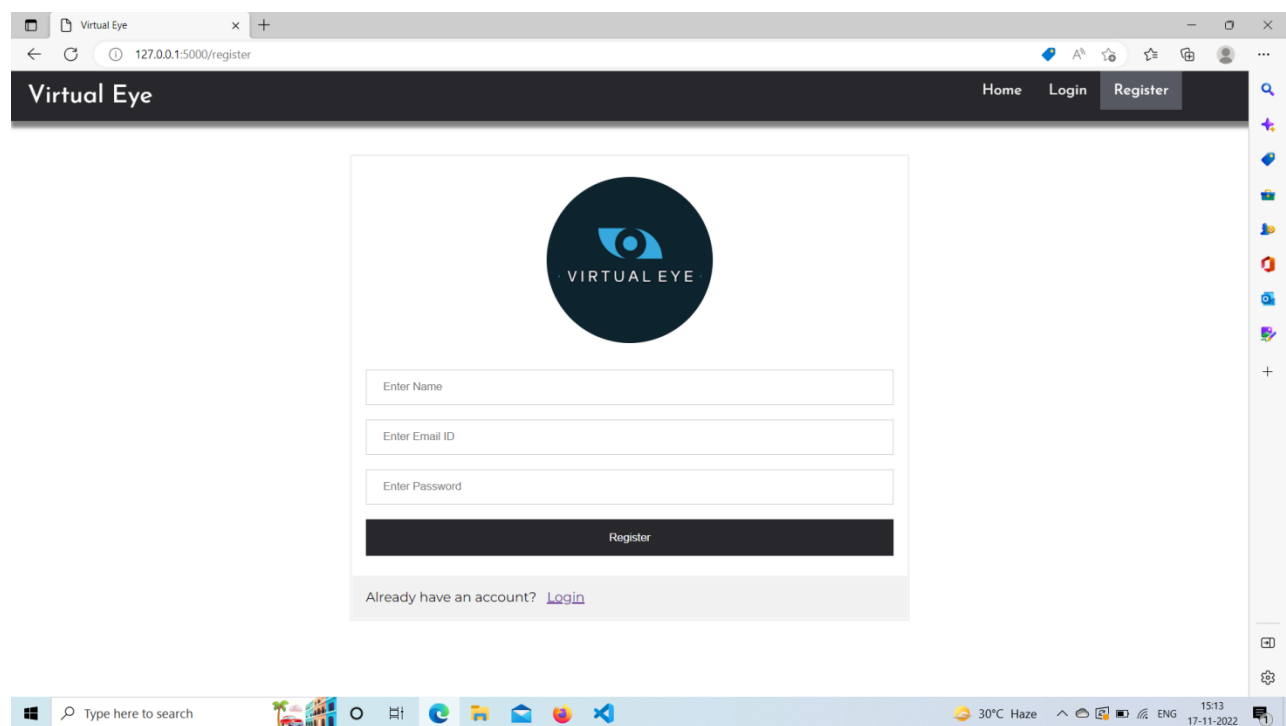
Swimming is one of the best exercises that helps people to reduce stress in this urban lifestyle. Swimming pools are found larger in number in the hotels, weekend tourist spots and barely people have in their house backyard. Beginners, especially often feel it difficult to breathe under water and causes 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:

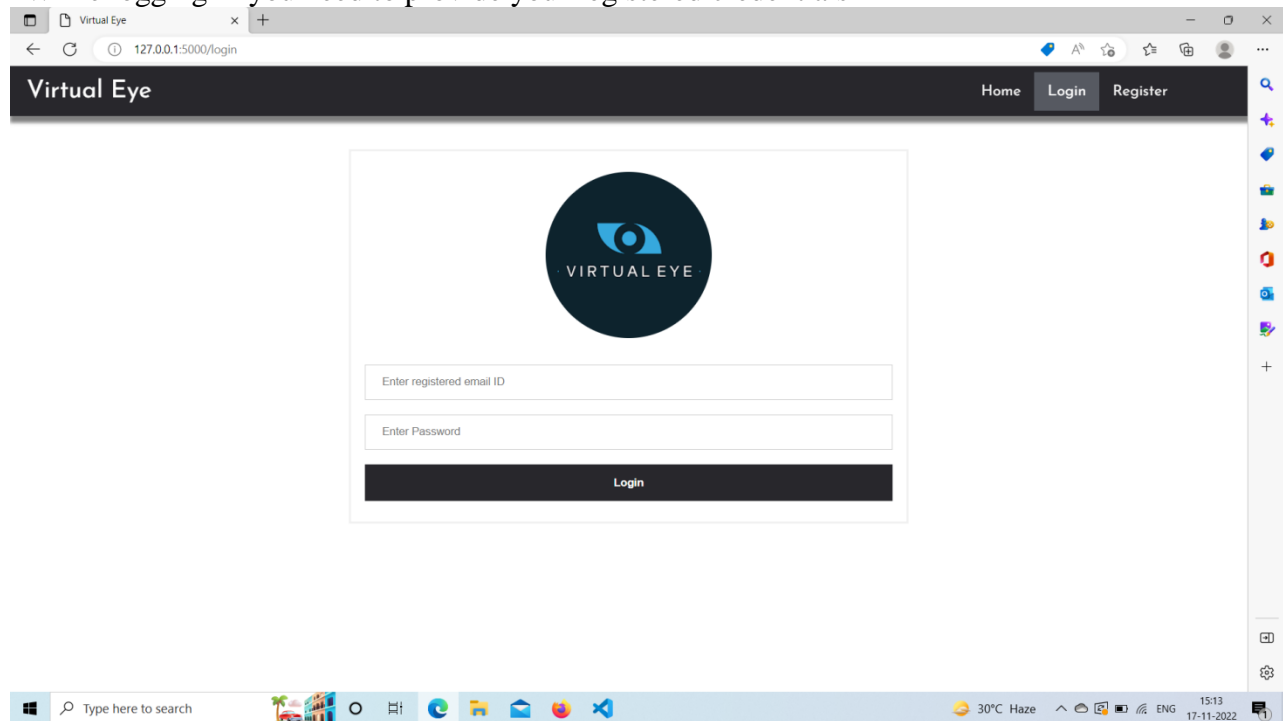
To overcome the conflict, a meticulous system is to be implemented along the swimming pools to save the human life. By studying body movement patterns and connecting cameras to an artificial intelligence (AI) system we can devise an underwater pool safety system that reduces the risk of drowning. Usually 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



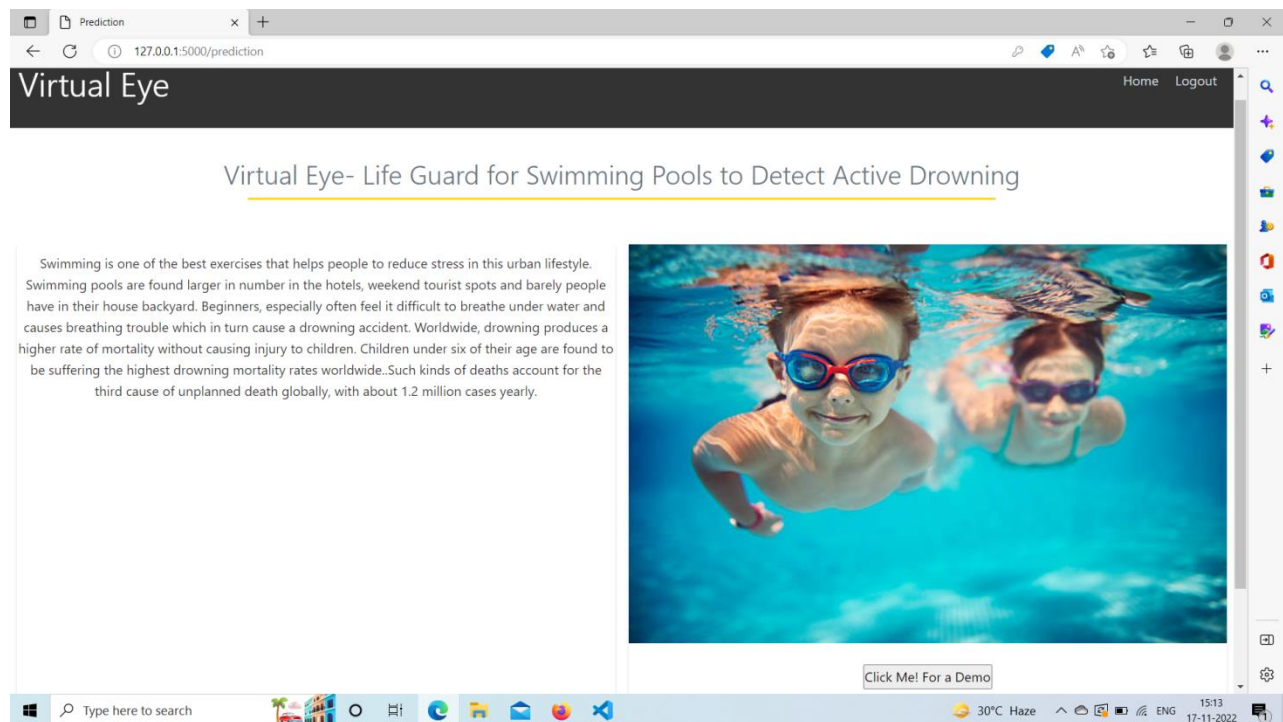
You need to register to the portal



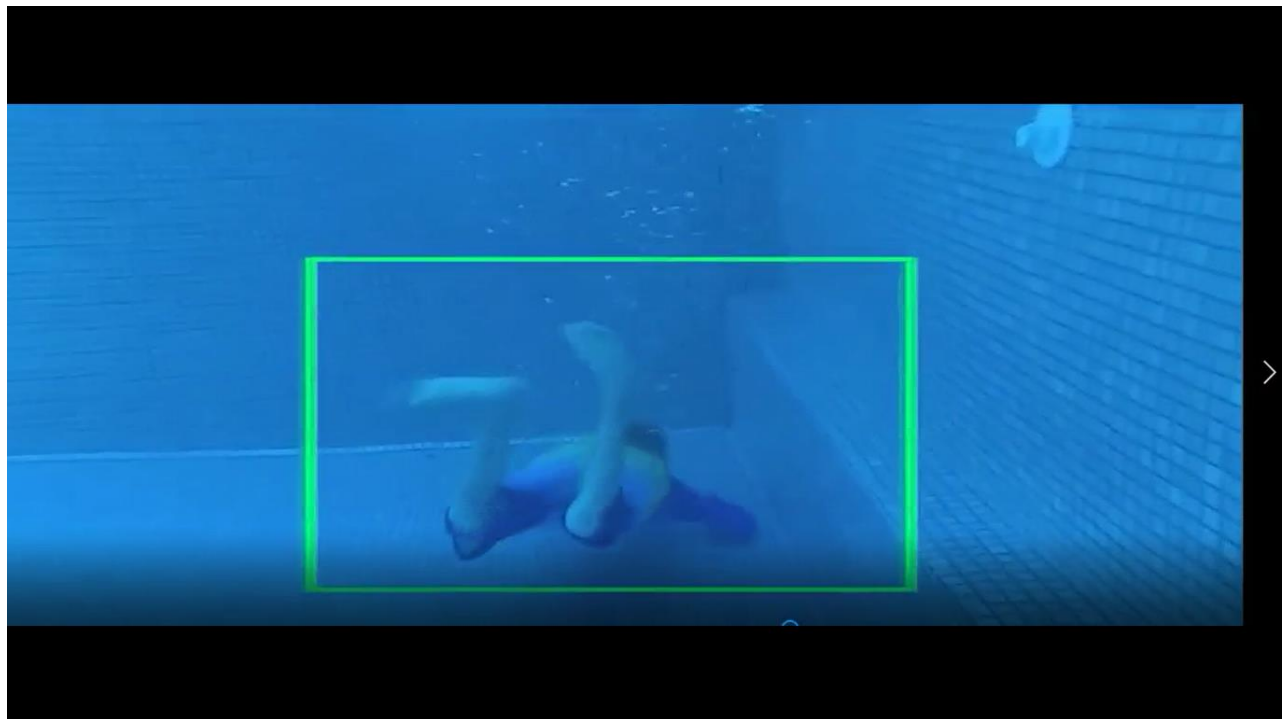
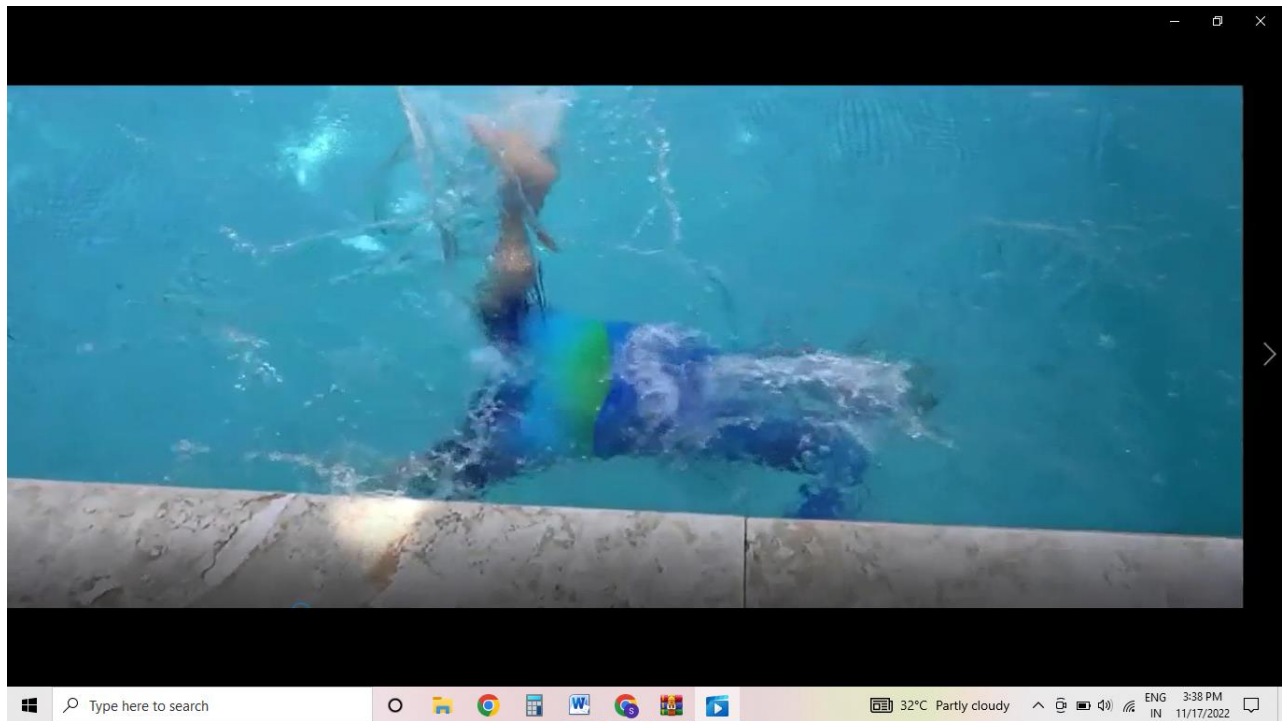
While logging in you need to provide your registered credentials



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



Output:



reloadAndRefreshQueryResult object at 0x0000010027B70000

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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

