

Project Development Phase
Sprint 2 - Source Code

Date	01 November 2022
Team ID	PNT2022TMID35350
Project Name	Project - VirtualEye - Life Guard for Swimming Pools to Detect Active Drowning
Maximum Marks	8 Marks

utils.py:

```
import requests
import progressbar as pb
import os

def download_file(url, file_name, dest_dir):

    if not os.path.exists(dest_dir):
        os.makedirs(dest_dir)

    full_path_to_file = dest_dir + os.path.sep + file_name

    if os.path.exists(dest_dir + os.path.sep + file_name):
        return full_path_to_file

    print("Downloading " + file_name + " from " + url)

    try:
        r = requests.get(url, allow_redirects=True, stream=True)
    except:
        print("Could not establish connection. Download failed")
        return None

    file_size = int(r.headers['Content-Length'])
    chunk_size = 1024
```

```
numBars = round(file_size / chunk_size)

bar = pb.ProgressBar(maxval=numBars).start()

if r.status_code != requests.codes.ok:
    print("Error occurred while downloading file")
    return None

count = 0

with open(full_path_to_file, 'wb') as file:
    for chunk in r.iter_content(chunk_size=chunk_size):
        file.write(chunk)
        bar.update(count)
        count += 1

return full_path_to_file
```