Export Drop to Instagram (Backend Functionality with FFMPEG)

(1) Splitting the caption into two lines (ffmpeg does not automatically split text into separate lines when it is too long)

```
function wordWrap(str, maxWidth) {
        var newLineStr = "\n"; done = false; res = '';
        while (str.length > maxWidth) {
        found = false;
        for (i = maxWidth - 1; i >= 0; i--) {
                if (testWhite(str.charAt(i))) {
                res = res + [str.slice(0, i), newLineStr].join('');
                str = str.slice(i + 1);
                found = true;
                break;
                }
        }
        if (!found) {
        res += [str.slice(0, maxWidth), newLineStr].join('');
        str = str.slice(maxWidth);
        }
        }
        return res + str;
}
function testWhite(x) {
        var white = new RegExp(/^\s$/);
        return white.test(x.charAt(0));
};
str = dropCaption;
str = wordWrap(str, 40); //final caption (splitted into two lines)
```

(2) Adding username to the video (replace '@username' with actual username)

```
ffmpeg -i input.mp4 -vf drawtext="fontfile=Montserrat-Bold.ttf: text='@username': fontcolor=white: fontsize=44: box=1: boxcolor=black@0.0: boxborderw=5: x=(w-text_w)/2: y=580" -codec:a copy output.mp4
```

(3) Adding caption variable str to the video

```
ffmpeg -i output.mp4 -vf drawtext="fontfile=Montserrat-Regular.ttf: text='insert str variable here characters': fontcolor=white: fontsize=34: x=(w-text_w)/2: y=650" -codec:a copy output2.mp4
```

(4) Scaling the profile picture (replace dp.jpg with actual image) and making it circular by adding a mask (mask.png)

```
ffmpeg -hide_banner  -i "dp.jpg" -i "mask.png" -filter_complex "[0]scale=185:185[dp];[1]alphaextract[alfa];[dp][alfa]alphamerge" circle_dp.png
```

(5) Adding the circular profile picture to the video

```
ffmpeg -i output2.mp4 -i circle_dp.png -filter_complex "[0:v][1:v] overlay=444:306" -pix_fmt yuv420p -c:a copy output3.mp4
```

(6) Adding an the audio background music (the actual drop) to the video and trimming it to the shortest duration

```
ffmpeg -i output.mp4 -i audio.mp3 -map 0:v -map 1:a -c:v copy -shortest -strict -2 finaloutput.mp4
```