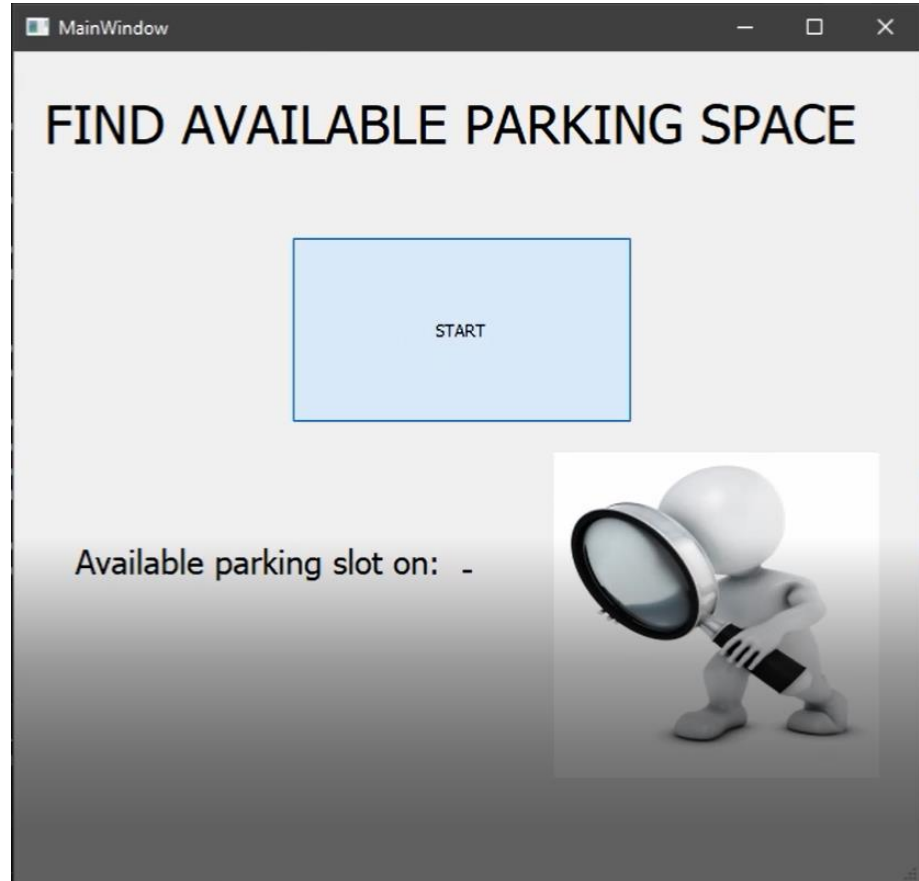


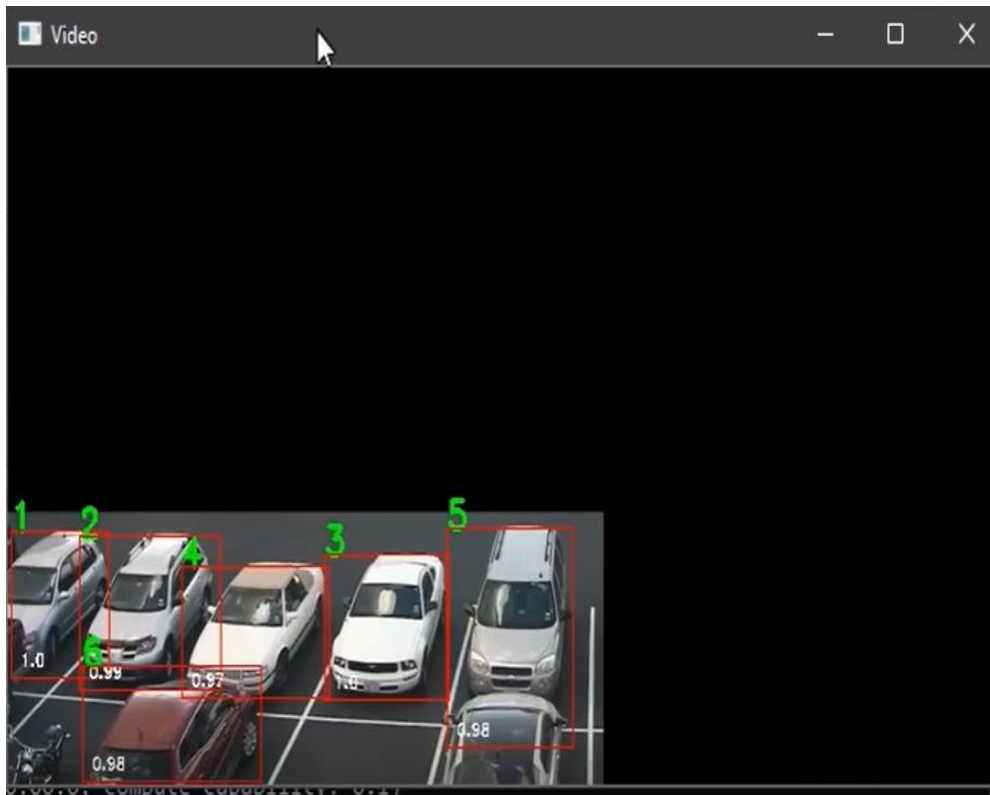


Demo aplikasi dan code tersedia pada link:
<https://github.com/kevinicky/Real-Time-Finding-Parking-Space>

UI Aplikasi



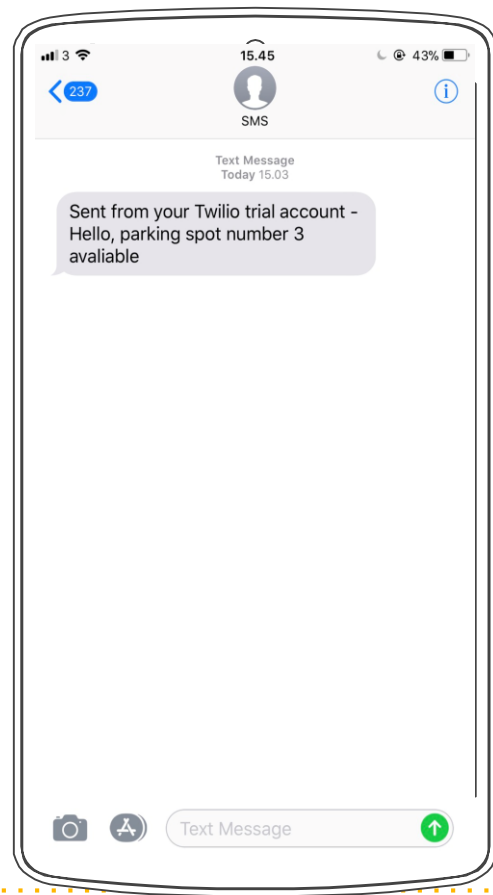
Finding Free Space



Found Free Space



Notified by SMS





REAL TIME FINDING PARKING SPACE

Created By:



Kevin Nicky Setiawan

2101635076



Steven Budinata

2101636961



Problem

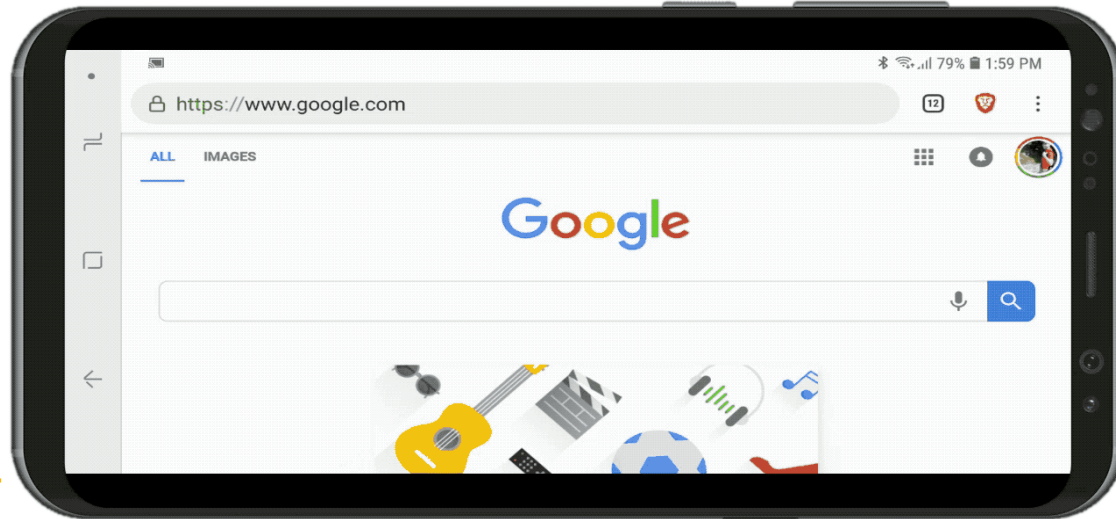
- Finding a parking space in the city is so frustrating especially at the office center, shopping center, or even near the residence



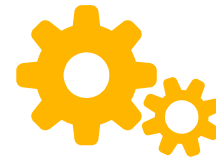
Solution



An application to track if there is available parking space, this could be used by users or even for a parking area provider at the mall or office



How it works



1



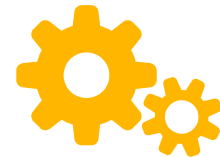
Set the camera
towards the
parking space

2

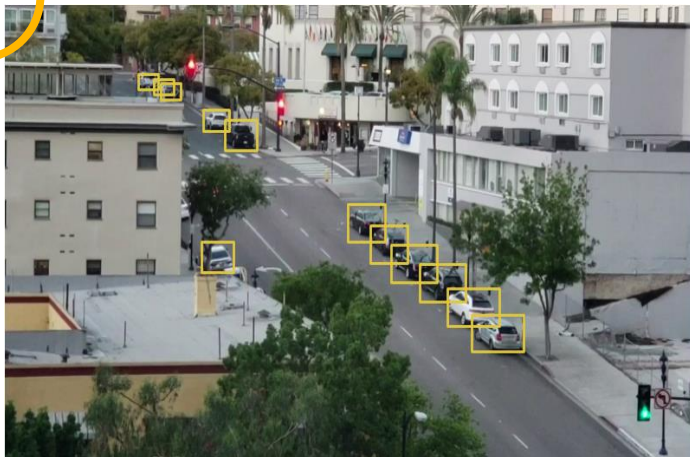


Detect parking
spaces

How it works



3



Detect cars in the
image

4



Detect parking
space that is newly
available then
send SMS

What we use



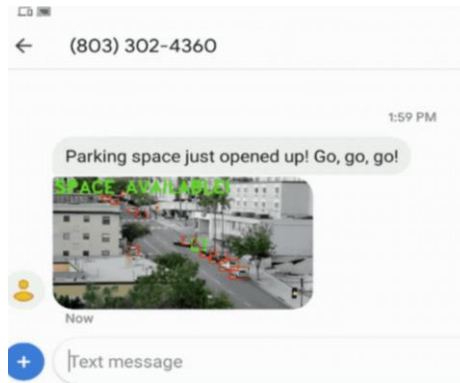
Object Recognition with Mask R-CNN



Dataset from COCO



Twilio API for SMS

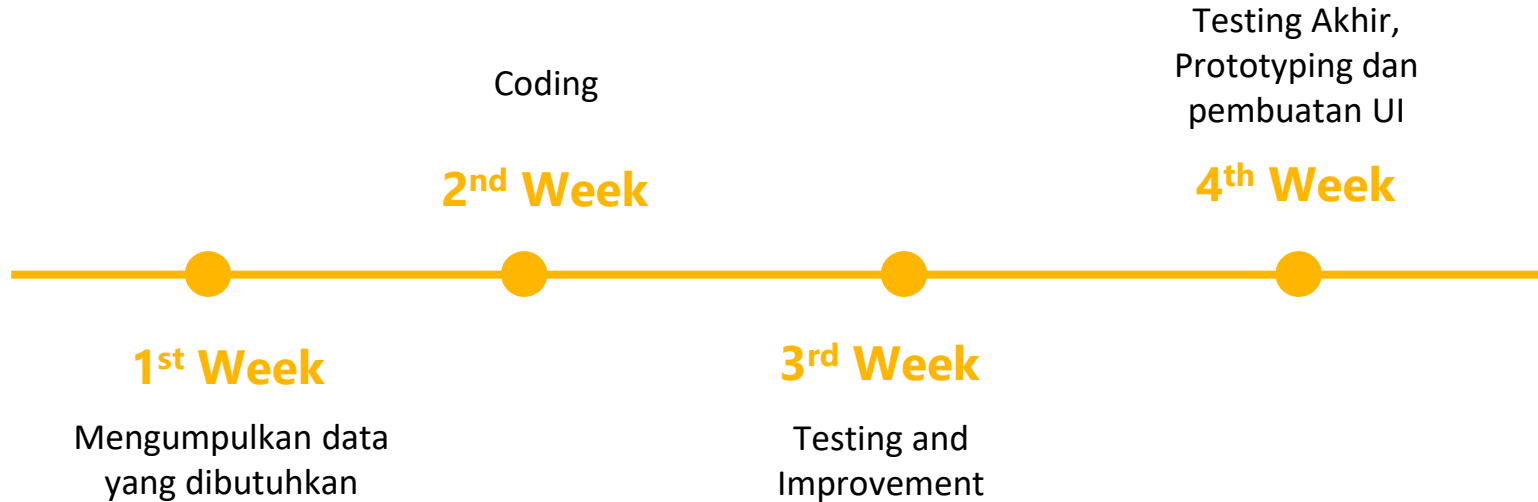


Key Differentiators



- Object recognition with mask R-CNN is still considered new
- It is a faster technology
- Cheaper
- Useful for cities like Jakarta that lack of parking area

Timeline





Resources

- <https://medium.com/@ageitgey/snagging-parking-spaces-with-mask-r-cnn-and-python-955f2231c400>
- <https://www.allstate.com/blog/parking-tips-for-finding-the-best-space/>
- <https://www.videoblocks.com/video/4k-aerial-tracking-over-full-parking-lots-bhi19ctlbj2t2ein5>