

Take a small journey with me

Few days away from
signing a new contract



with **Ooredoo** •

I got an email from a

**Professor at
Carnegie
Mellon
University**



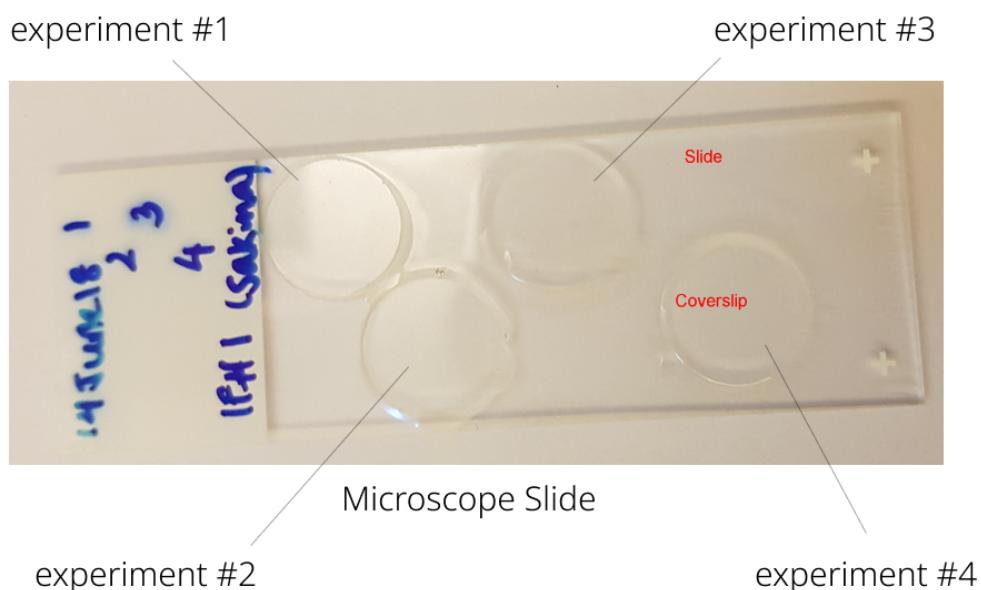
about an “idea” ...

Shortly
after, I
gave my
goodbyes 😔挥手
to Ooredoo !



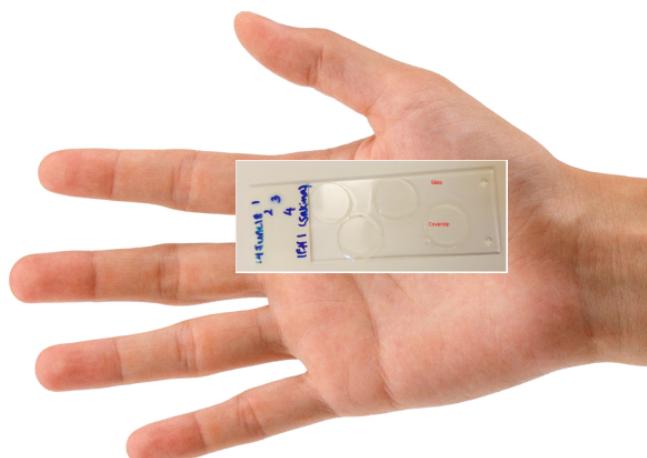
little background to understand the idea 

In scientific labs many experiments take place in what's called:
“Microscope Slide” 



One “**Microscope Slide**” can have many experiments on it. Each circle here is an experiment.

For Scale
Comparison

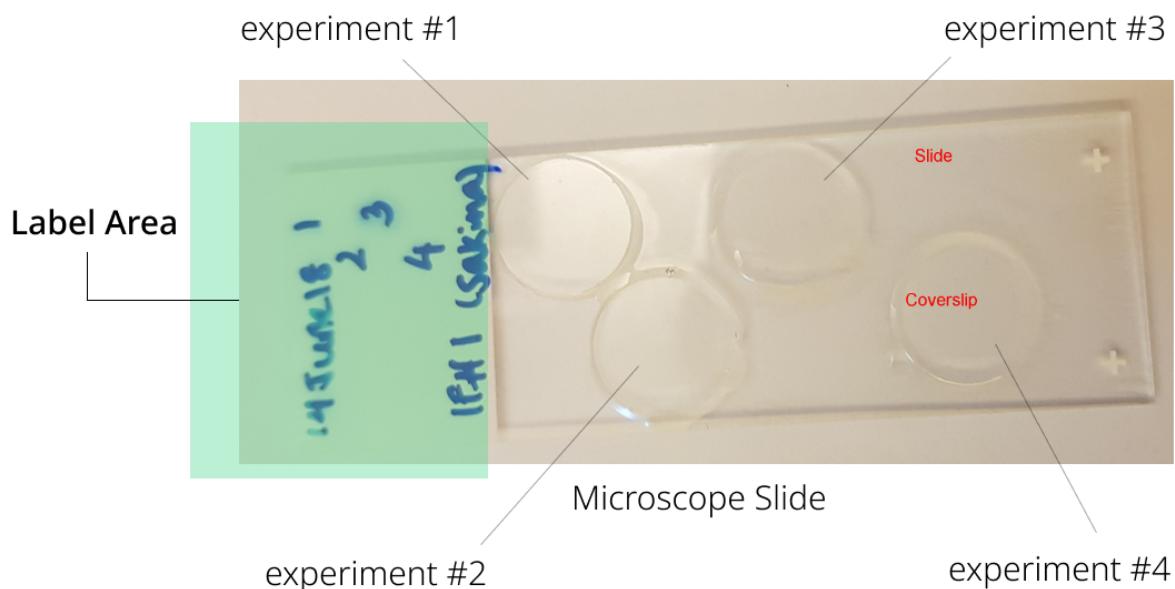


little background to understand the idea 

Now it's time to put the

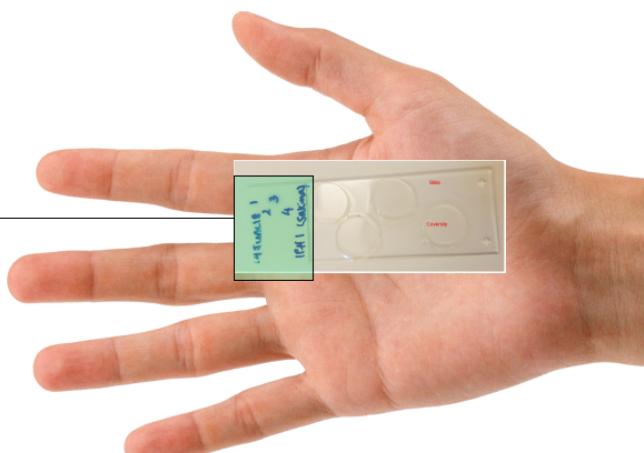
- Experiment title
- Project name
- The date
-etc

for each experiment/circle



But how do we put all of
these details in this small
“label area” ?

That's too small for all this info!



little background to understand the idea 

You can write small details

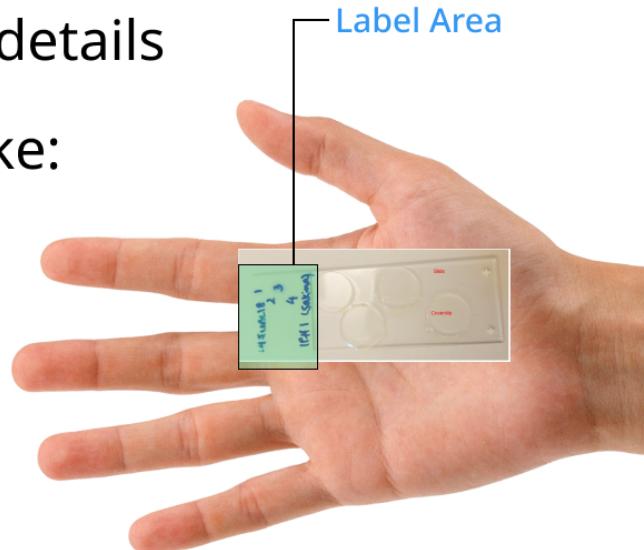
in the “label area” like:

- Your name

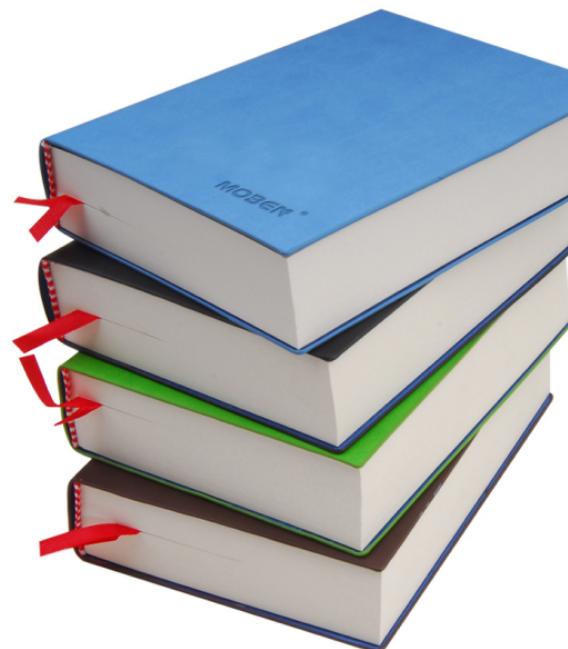
- The date

- A number

...



Then write all
the details in
a big notebook



And find a place & put
the piece in this box



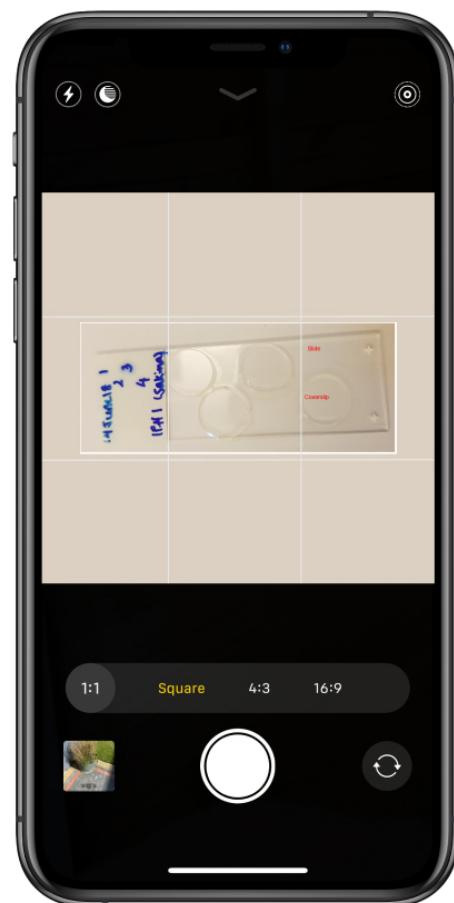
Insight! 😮

What happens if we **couldn't find the experiments** in the notebooks?

We may need to **sacrifice** another mice  because of ***the lost paper*** or ***the bad hand writing!***

What if we can **search** experiments just like how we do in  Mice Jerry #34 experiment and get all the information we want?

What if just simply pointing a mobile device  can record information about the experiment, just like how we scan QR Codes?

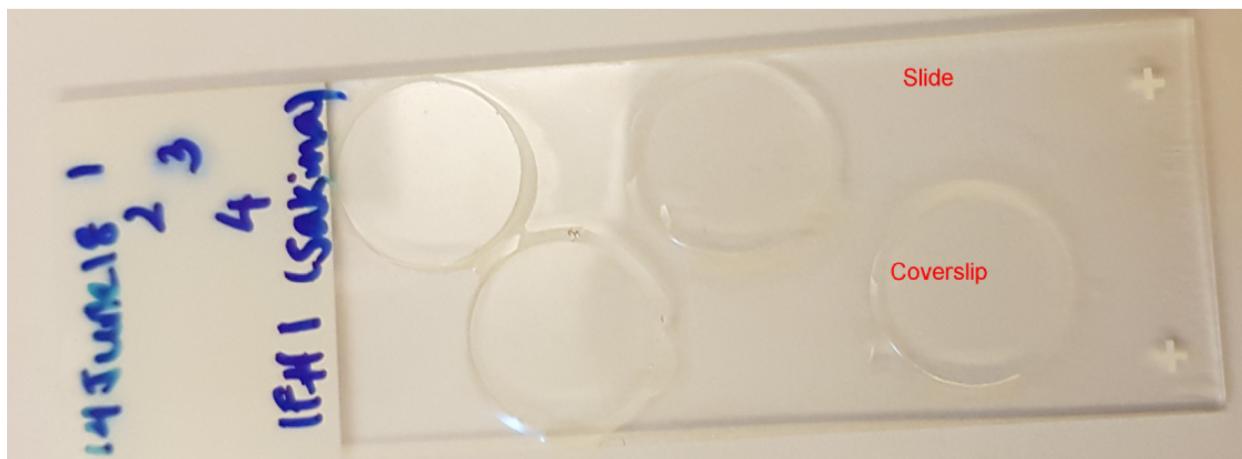


The science labs can become much faster! this project can **truly advance the scientific process!**



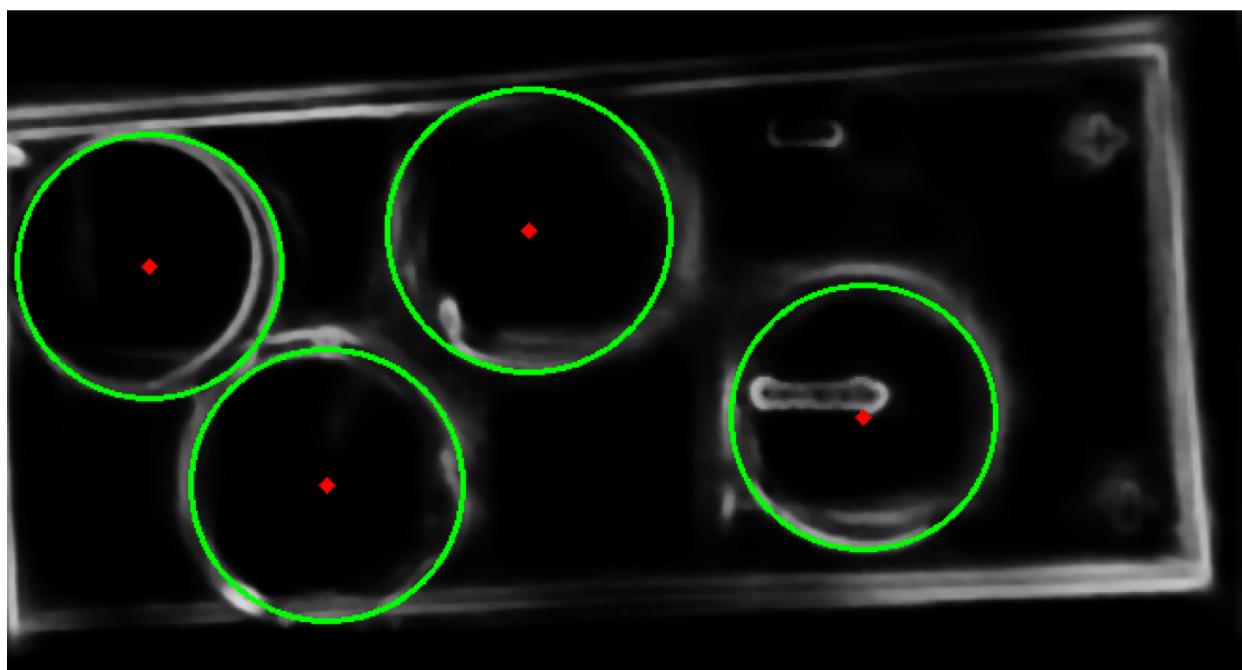
Great Results 😊

In about 2 months, I successfully created the application, and the machine learning auto detection algorithm* for the digital transformation of the microscope slides.



Original Image

The Algorithm detecting all the experiments here!



Detection of Experiments/Circles by the algorithm

* It's a hard problem because you have transparent circles on a transparent background, it's even hard for humans to see there are circles!

Great Results 😊

The application was being used by some Carnegie Mellon University researchers, and the professor was quite happy!

Next Steps?

Reaching to science labs, like the ones in HMC.

We started with a neighbouring lab at

Weill Cornell Medical College



Small Throwback.

The last time I entered Cornell building was 7 years ago, 2013, when I was questioning my decision of becoming a doctor.



Pre-College Program

COVID-19 is here

**Then
Corona
happened.**