Release plan

Product name: Automated Cell Counting (ACC)
Team name: Cell Counting Project (CCP)
Release name: CCP alpha v1.0
Release date: 06/04/2021
Revision number: 1
Revision date: 04/07/2021

High Level Goal:

Research different methods to tackle this problem

Be able to count cells

Be able to ignore dirt specks

Be able to identify dead cells

Be able to only count cells in a certain area

Have a simple interface that the user can interact with

Preparing training data

Testing results

Sprint 1:

- (8) As an employee, I need to research about this project and the different ways to tackle this problem, so that I can be helpful. (highest priority)
- (13) As a tester I need to be able to know the right values for the cell counts so that I can see whether the count is accurate or not. (might change later)
- (21) As a lab researcher, I want to be able to not have to manually count the cells so that I can use my time for something else. (Might get bumped down into sprint 2 if not implemented in sprint 1)

Sprint 2:

- (5) As a lab researcher, I don't want to count specks of dirt or other visual clutter.
- (3) As a lab researcher, I want to be able to save previous images and the data I got from them so that I can look at them later and not have to spend the time to redo past results.

- (21) As a tester (or maybe even a lab researcher) I want to know what instances the tool is identifying as a cell so that I can verify that it is functioning properly. (Might get bumped down into sprint 3 if not implemented in sprint 2)

Sprint 3:

- (5) As a lab researcher, I want to not have to manually identify dead cells so that I can use my time for something else.
    - (2) As a lab researcher I might want to know what percent of the dish are dead versus alive or cells vs non cells so that I can gain more information about the images I took.
- (8) As a lab researcher, I want to have a nice easy to use UI so that I don't get lost or can learn it easily.
- (21) As a lab researcher, I want the tool to only count certain areas of the petri dish so that I can calculate whatever it is I need.

Product Backlog:

As a lab assistant I want to know how to use the product without much outside help so that other people in the lab can spend more time doing other work instead of teaching others how to use the tool.

As a lab researcher I want to know the average size of the cells so that I can have more information on the data.

As a lab researcher I want the product to be easily found (and installed?) so that I can get started with it as soon as possible.

Office hours:

- Is this project very narrow?
  No
- Does it matter that we have no experience and might completely fail?
  No
- How specific do you want us to be in the user stories? (esp independence)
  We chillin? Possibly?
- Does it matter if we estimate wrong? Is it better to be conservative in our guesses with estimation?
  We can change stuff as it goes, it will probably be wrong anyways, we chillin

Highest Prio:

As a tester I need to be able to know the right values for the cell counts so that I can see whether the count is accurate or not.

As a lab researcher, I want to be able to not have to manually count the cells so that I can use my time for something else.

Medium Prio:

As a lab researcher, I don't want to count specks of dirt or other visual clutter.

> As a tester (or maybe even a lab researcher) I want to know what instances the tool is identifying as a cell so that I can verify that it is functioning properly.

As a lab researcher, I want to not have to manually identify dead cells so that I can use my time for something else.

> As a lab researcher I might want to know what percent of the dish are dead versus alive or cells vs non cells so that I can gain more information about the images I took.

Low Prio:

As a lab researcher, I want the tool to only count certain areas of the petri dish so that I can calculate whatever it is I need.

As a lab assistant I want to know how to use the product without much outside help so that other people in the lab can spend more time doing other work instead of teaching others how to use the tool.

As a lab researcher I want to know the average size of the cells so that I can have more information on the data.

As a lab researcher I want the product to be easily found (and installed?) so that I can get started with it as soon as possible.

As a lab researcher, I want to have a nice easy to use UI so that I don't get lost or can learn it easily.

As a lab researcher, I want to be able to save previous images and the data I got from them so that I can look at them later and not have to spend the time to redo past results.