

## Developer Assessment 1 – Tissue Sample Collection Details

### Brief

You've been asked to join a team working on an administrative interface for a system that will allow a Tissue Sample directory to keep track of the number of samples with certain characteristics contained within a larger collection of samples.

### Requirements

In order to create a minimum viable product, the following is required:

- Display a list of collections on the home page (including their title and associated disease).
- Drill into a collection's record to view the details of their currently associated samples.
- Add a new sample to an existing collection.
- Create a new collection.

We would like you to write a web application that covers these points using any appropriate language or framework. Your code should be easily understood and well structured, with a focus on ease of maintenance and future extensibility. The code must come with documentation and it should include a section about how to execute the project.

### Entities & Data

#### Collections

Id	Disease Term	Title
1	Cirrhosis of liver	Mothers Pregnancy Samples
2	Malignant tumour of breast	Phase II multicentre study
3	Fit and well	Lymphoblastoid cell lines
4	Chronic fatigue syndrome	Samples available include ME/CFS Cases
5	Malignant tumour of breast	A randomised placebo-controlled trial

#### Samples

Id	Collection_Id	Donor_Count	Material_Type	Last_Updated
1	4	90210	Cerebrospinal fluid	2019-06-03
2	2	512	Cerebrospinal fluid	2019-03-08
3	2	7777	Core biopsy	2019-05-04

### Delivery

Please email [Roberto.Santos@nottingham.ac.uk](mailto:Roberto.Santos@nottingham.ac.uk) by the **29<sup>th</sup> of October, 11pm** with either:

- details on where to find your code
  - e.g. the URL to a public GitHub repository or some similar service
  - A private repository on GitHub, adding **spco**, **dcl10** and **py5gol** as collaborators.
- an attached zip file containing your code