Data Design and Process document

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Our project topic is "What classes can we take in UCSC during our free time?", so this will be a web app when you have free time on campus and want to take some classes instead, you can check our web by subjects, locations and time.

For this app, we need to find out all the classes name in UCSC and search them in class search page to get more information such like location, time and capacity.

This is an example data we have got.
{'Capacity': ' 0 of 0 Enrolled', 'Class_name': 'Senior Project', 'Class_Location': ' STU: E Baskin L101', 'Day_And_Time': ' TuThSa 09:00AM-11:25AM', 'Instructor': ' Palmer,L.', 'Class_Number': 'ART190B', 'Subject': 'Art'}
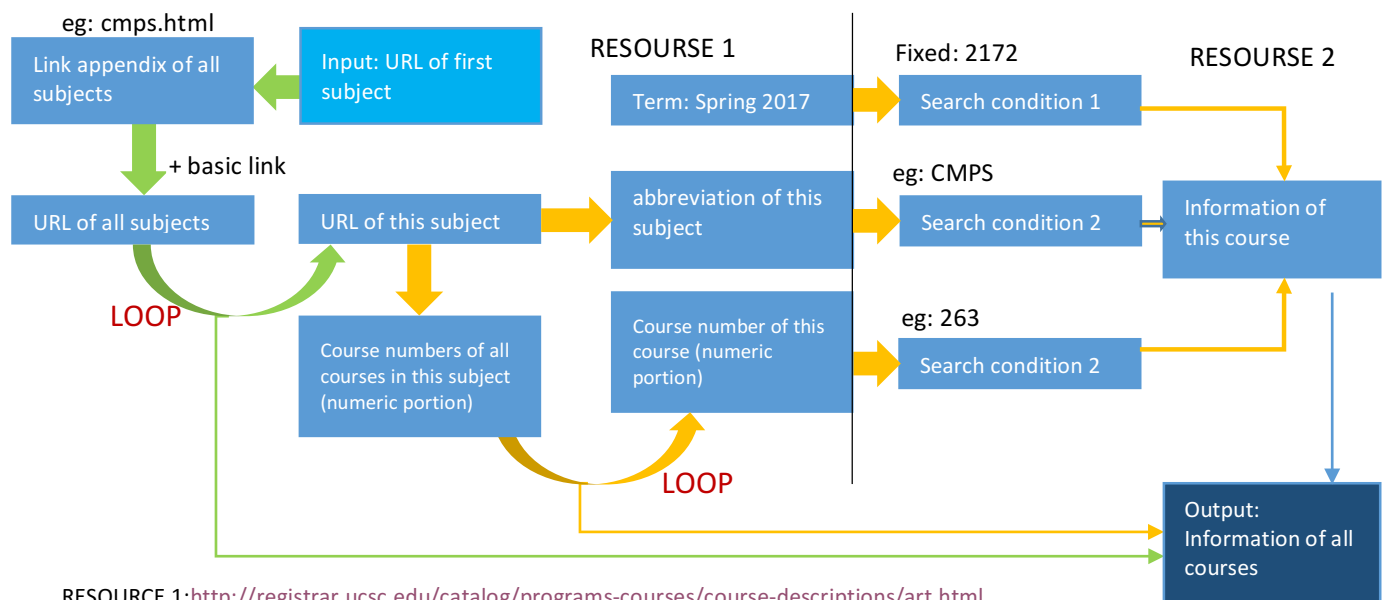
The main variables here are class name, class location, class time and subjects. Because we want these variables to the restrictions for our search and other information will be shown as interactive element on the website.
So, first, I need to get all the classes. In this page, I can get all the classes by subjects. Then in class search page to search all the class in 2017 spring quarter and get the information and output every classes as dictionary.
Our strategy of getting all these data is shown in the following chart:
Input: http://registrar.ucsc.edu/catalog/programs-courses/course-descriptions/art.html
https://pisa.ucsc.edu/class_search
Output: https://github.com/wastelife/What-classes-can-we-take-in-UCSC-for-our-free-time-/blob/master/final_pj.py

RESOURCE 1:http://registrar.ucsc.edu/catalog/programs-courses/course-descriptions/art.html
RESOURCE 2:https://pisa.ucsc.edu/class_search/