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CAO ANALYSIS System

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# Overview

## Project Background and Description

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|  | The CAO system centrally processes all applications in Ireland for their entry into Higher Education Institutions. It records the course requests from the applicants and works with course providers to issue offers to applicants. The CAO system converts student’s grades into a points system to easily separate students and offer courses to students who have the highest points first.  The Information system I am proposing to create will aim to scrape all of the historical data points from prior years, and then store this information to a database which will allow students to interactively select which course they are interested in applying for to see how the points scale has moved during the last 5 years. Along with an estimated prediction of what this year’s points will be based on the current historical trend. |

## Project Scope

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|  | The agile software development model is what I have deemed as the best methodology fit for this project as it allows continuous development of the information system to be achieved. As currently the project is in the initiation stage. The system’s vision is known by functionality, but in-depth feasibility analysis is yet to be completed. IE if it is feasible to take all courses offered in Ireland or restrict to certain levels such as level 8 courses only. This feasibility will be explored during the planning stage.  Targeted users are prospective CAO applicants and their interested parties. Historical CAO points data is stored on the [Central Applications Office (cao.ie)](http://www.cao.ie/index.php?page=points&bb=mediastats) but only viewable by year in question. Information system solution proposed will make it easier for applications to see points trends by viewing multiple years. |

## High-Level Requirements

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|  | The information system must be able to do the following:   * To allow users access the application without downloading any software (HTML delivered) * To store all CAO points records onto a database * Show all points records for prior years for the course selected by the user along with an estimate for the upcoming year |

## High-Level Timeline/Schedule

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|  | July 25, 2022 : Delivery Proposal plan (project initiation stage)   * August 1, 2022 : Finalize Planning stage for project (Data sources for prior CAO points, Python packages to use, visual look of HTML solution) * August 7, 2022 : Development (sprint 1) – Creating Database and storing all the prior CAO points * August 14, 2022: Development (sprint 2) – Creating the UI html side, where users can select course to view and template for table for results. * August 21, 2022: Development (sprint 3) – Link database and UI to ensure functionality is working as desired and results are appearing along with correct mathematically theory for future estimate points * August 28, 2022: Production – Deliver information system to end users |