**Vytech Analysis**

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**Jonatan Cervantes – Processes Category (Project Leader)**

**Samantha Fields-Samotowka – Input and Output Category**

**Aurelia Hammond – Performance Category**

**Oscar Moreira – Controls Category**

**Inputs**

* Records for students, in a simple database.
* Develop a form that students fill in.
* Questionnaire that Jesse Baker suggested.
* Student registration forms and input screens.
* Web forms that we can use when we go online.

**Outputs**

* We’ll have to produce transcripts.
* Produce a class roster that gave us some background information.
* Student information results could be printed along with the class roster.
* Send out a schedule that shows all offerings for the next 90 days.
* Produce attractive certificates.
* Report on courses conducted and a listing of instructor assignments.
* SCR’s corporate clients will certainly want a report on their students.
* Generate signature ready certificates.

**Processes**

* The system should manage students, courses, and instructors.
* The system should track registration, until the course is held.
* Allow the administrative support group to handle the training information system
* The system must verify records of former students.
* Produce a class roster and provide background information on student level.
* The system must manage class scheduling.
* The system must be able to handle student registration.
* The system must track classes.

**Performance**

* The system will need to be reliably be up 24/7, 365 days of the year so that people can sign up for courses whenever they’d like.
* The system needs to be able to manage a large amount of data for everything involved: students, instructors, and courses. It should also be able to retrieve that data quickly for people to access.
* The system must track and identify the minimum and maximum class size before the system registers a size error.
* The system must organize data in a presentable way or to the request of the organizer.
* The system must be able to cross check multiple data points and libraries for dual class entries.

**Controls**

* Authorization and authentication mechanisms to control access to the system and its resources.
* Logging and auditing capabilities to track system events and user actions.
* Error handling and exception management to prevent unauthorized access and ensure system availability and reliability.
* Backup and recovery procedures to minimize data loss and ensure continuity in case of a system failure.
* Version control and change management processes to ensure system updates and modifications are properly documented, tested, and approved.
* Ensure that the system has data security to protect the system from unauthorized users from accessing sensitive data or intercepting it.