

Vytech Analysis



Jonatan Cervantes – Processes Category (Project Leader)

Samantha Fields-Samotowka – Input and Output Category

Aurelia Hammond – Performance Category

Oscar Moreira – Controls Category

System Requirements-Group Project

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.

System Requirements-Group Project

- 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.