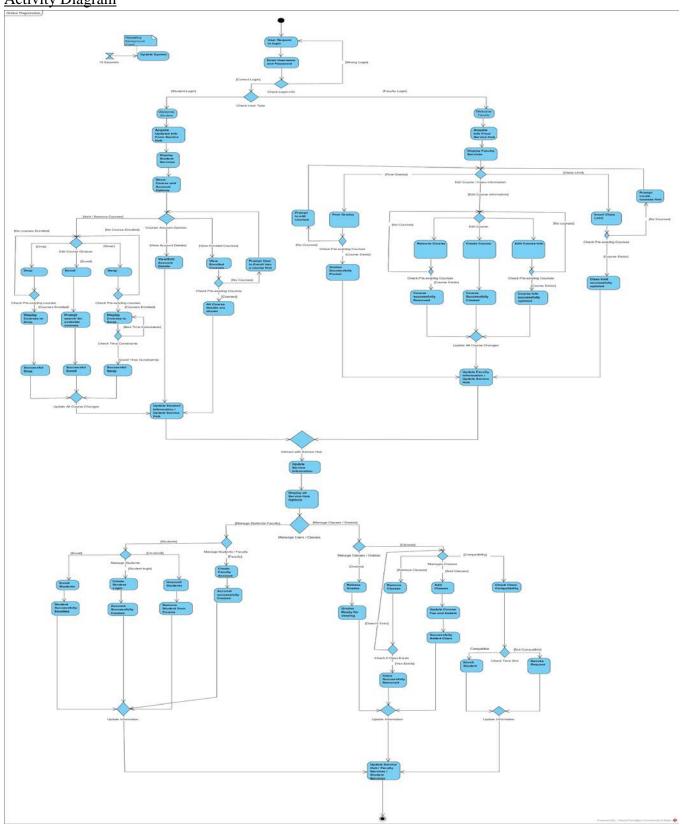
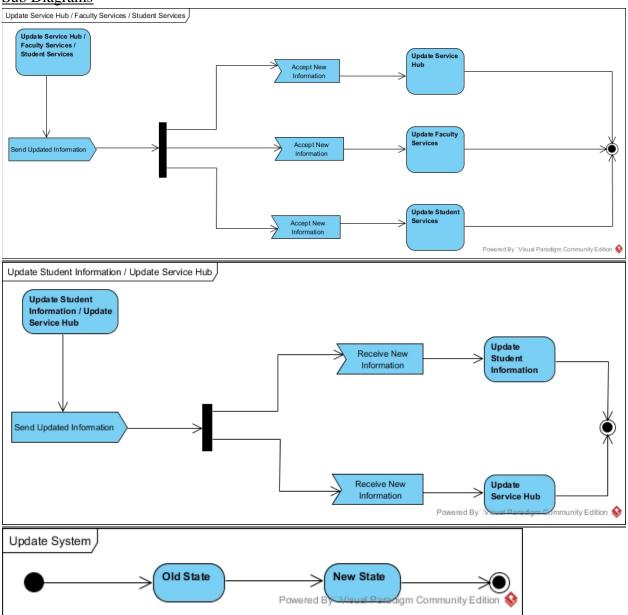
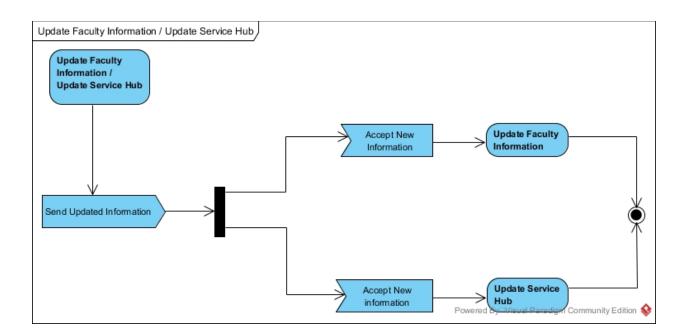
CPS 731 PHASE 2





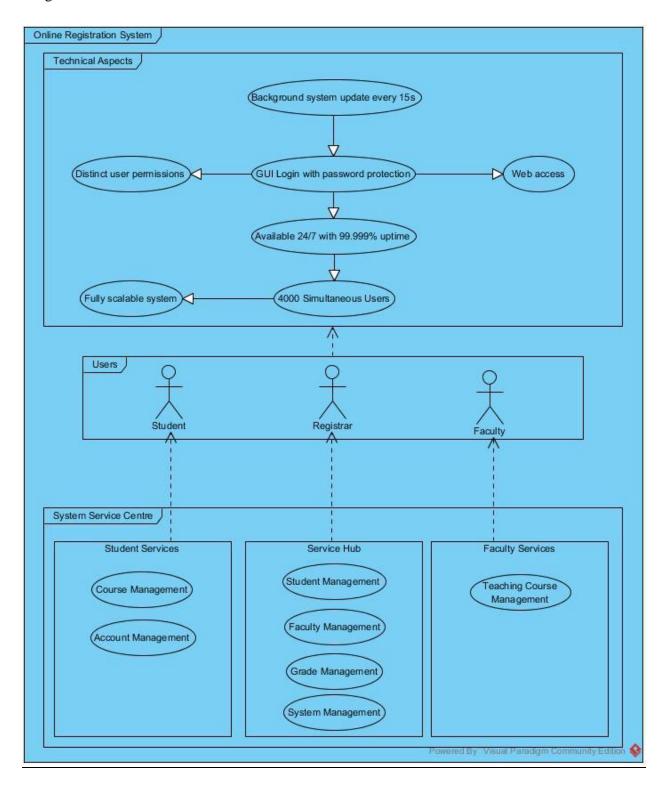
Sub Diagrams





Marketecture Document

Diagram:



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Description:

The online registration system has been designed from the ground up while taking some guidance from the current Ryerson University online registration system. Specific requirements were taken into account to assure a reliable and complete system that students, faculty, and the registrar's office can all use.

The marketecture diagram seen above provides a user overview of the system. It briefly shows how each user can interact with the system and some of the system specifications. Below is a more detailed description of the important system requirements and how they pertain to the users in the diagram above.

The important components of the system are its usability, reliable, security, and scalability. The registration system will be built to have a very easy to navigate user interface. This will ensure a smooth user experience and allow the different users to operate the system efficiently. The system is built around some important requirements, which are being implemented at the start, to allow for the basic operations a system like this would need. These include the student services, faculty services and the registrar services. The students are able to view, add, and swap their courses, a very important component of a system such as this. They can also manage their personal information including financial services. The faculty members are able to manage the courses that they are teaching. They are able to manage the courses they are already teaching by setting enrollment limits (if applicable), as well as the course description. On top of these capabilities the faculty members are able to add new courses they are going to teach or remove courses they are no longer teaching. Finally the faculty members are able to upload and edit the individual grades of students in their specific classes. The registrar is able to do a lot more than either of the other two users. They are able to get into both the student and faculty accounts and do changes on their behalf. Not only are they able to make changes for existing users but it is their responsibility to add new students and faculty to the system as needed. They maintain the system, ensuring accurate information, as well as release final grades once the semesters are completed.

The system itself has a secure login. Each student, faculty member, and registrar has a unique login and can only view/manage data related to their account type and the hub that they login to. This is very important for our system as we do not want students to be able to manage their own grades or manipulate sensitive information of other students and specific course information, which is only accessible for faculty and registrar.

This system is also a scalable one. It is currently set-up to handle 4000 simultaneous users but has the capability to be scaled larger if needed. This is feasible with the hardware requirements

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and just scaling up the systems servers, which strive for a 99.999% uptime to ensure constant access for the users through various web applications.