

Technical Report

University Online Student Registration System

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Ryerson University needs a new Online student registration System, Our group will by the end of this semester have a fully functioning online student registration system. There is a great need during the current health conditions for a new System as the classes are now presented in an online format. The final goal of this project is to have a fully functional online student database, along with following the rules set out of having entities and entity relationships. Some of the information expected from this project is, new Student name, phone number, nationality, citizenship and many more highlighted in this report.

Ryerson University received a total of 8,367 first-year undergraduate students in the 2019-20 academic year. University Online Student Registration System is a portal that can expect a similar volume of students who will be using the system to create an account by filling out their credentials in the account creation form. Every student will have an unique portfolio consisting of their unique information which will be securely stored in the database. This information will then be used by Ryerson University, to create a student profile, including student number and student email address.

A student has various attributes including student number, full name, nationality, contact information (email, phone number), address, citizenship, Indigenous status, disability status, student status, and major. Each student would be assigned a unique student number which would act as a primary key. Each student should have a record of courses they have taken, which can, for example, be used to produce students' transcripts. Details of each course should be noted including course code, name, section, semester, year, department, and instructor. Students should also have a financial record, including charges and payments. This financial record should include attributes such as transaction ID, amount, type of charge, name/description of charge, department who is requesting the charge, and source of payment. This record can be used, for example, to produce invoices for a particular semester.