Date: Wednesday 14 September 2016 Class: SOEN 341 Section H

Professor: Terry Fancott By Team: Constellation

**System Overview and Team members**

1. **Name of the System** Fate Generator

2. **System description**

Fate Generator is a web-based schedule generation system that can create schedules based on the preferences that are specified by the Student user. The Student user can access course descriptions and use the schedule generator. The generator uses Concordia University’s list of available classes and the undergraduate calendar descriptions to create a complete schedule of classes for one or more semesters. The student can input the following preferences in the system: preference to take morning or evening classes, preferred teachers for a particular course, full time or part time availability. In addition to the student’s preferences the Fate Generator also takes into account the student’s current situation in the university, i.e. failed courses, required courses for the successful degree completion, as well as previously completed courses. Students are the primary users of the Fate Generator. However, a Registrar user can be created. Registrar account possesses specific privileges, such as adjusting available courses and granting existing student profiles course exemptions and equivalences.

3. **Domain Model**C:\Users\Inga\Downloads\domain model.png

**4. Brief description of the model and the DLOs**

This early domain model represents the Fate Generator system overview, incorporating the following DLOs and their relations:

User: the core DLO that is extended to a Student or Registrar DLOs, the starting point of the system access. Requires registration with username and password.

Student: a type of User DLO that requires additional details such as Student ID and the first and last names. Student DLO has relationship with various other DLOs in the system.

Registrar: another type of User DLO. This type requires employee ID of the registrar person, as well as first and last names. The validity of the ID can be potentially checked against a database of valid employee IDs, subject to change.

Program: DLO that stores Program requirements such as required courses, required number of credits, etc. This DLO is used by Generator to determine what courses a student needs to complete.

Preference: DLO that stores student preferences to be used by the Generator

Course: DLO for all available courses in the University that contains the essential information about the course

Section: related to the Course DLO as it stores the information on the sections of a particular course that are available

Master Schedule: a list of Sections available for the calendar year, main reference point of the Generator DLO

Generator: core DLO of the system, collects information about the students and the courses to generate a Course Schedule

Course Schedule: output DLO that is the final result of a Generator. Many schedules can be created with one Generator

**Team name:** Constellation

**Team members:**

|  |  |
| --- | --- |
| Name | Role |
| Ayan Bikalapov  Alexandre Pelletier  Nikita Baranov\*\*  Claudia Chaillan  Zhang Dandan\*\*  Liang Duo  Shenghong Yan\*\*  Yu Luo  Yefei Xue  Konstantinos Evagelidis | Group Lead  Coding  Mixed  Documentation  Documentation  Documentation  Documentation  Coding  Mixed  Mixed |

\*\* Currently on the waiting list