# CRC CARDS – HAUNTED PYRAMID

**HTTPS://GITHUB.COM/CSC207-UOFT/COURSE-PROJECT-HAUNTED-PYRAMID**

**OCTOBER 15TH, 2021**

# SUMMARY

- Entities
  - User
  - Student
  - Event
  - Course
  - OurCalendar

- To be implemented
  - Lecture
  - Assignment
  - Reading
  - Test
  - Tutorial
  - Labs
  - Others

- Use Cases
  - CalendarManager
  - CourseManager
  - EventManager
  - StudentManager

- Controllers
  - CalendarController
  - CourseController
  - EventController
  - LoginController
  - MainController
  - StudentController

- Interface
  - Fluid
  - Repeated

- Presenter
  - CalendarPresenter

- Gateway
  - IOSerializable

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# User

Student

| Responsibilities | Collaborators |
|---|---|
| • Name<br>• birthDate<br>• dateCreated<br>• emailAddress<br>• phoneNumber<br>• homeAddress | |
| • Setter of the above responsibilities | |
| • Getter of the above responsibilities | |
| • Construct with name and birthDate | |

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ENTITY

# Student

| Responsibilities | Collaborators |
|---|---|
| • number of courses<br>• courses enrolled<br>• AddCourse<br>• RemoveCourse | • Course |
|  |  |

**ENTITY**
# Event

Reading, Assignment, Lecture, Lab, Tutorial, Test, Other

| Responsibilities | Collaborators |
|---|---|
| • name<br>• location (Optional)<br>• startTime<br>• endTime | |
| • modify startTime and endTime | |
| • Setters for startTime, endTime, name and location | |
| • Getters for startTime, endTime and length | |
| • HasConflict | |
| • Equals | |
| • ToString | |

ENTITY
# Assignment

| Responsibilities | Collaborators |
|---|---|
| • worksessionsLength<br>• hoursSpent<br>• hoursNeeded<br>• dueDate | • Fluid |

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# Course

| Responsibilities | Collaborators |
|---|---|
| • name<br>• task [events share the same course attribute] | • Event<br>• Lecture<br>• Assignment<br>• Reading<br>• Test<br>• Tutorial<br>• Labs<br>• Others |
| • Add events to task | |
| • Remove events from task | |
| • Getter of name and task | |
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# OurCalendar

| Responsibilities | Collaborators |
|---|---|
| • calendarMap<br>• conflict (Boolean)<br>• conflictEvent<br>• dateInfo<br>• calendarMap | • Event<br>• Lecture<br>• Assignment<br>• Reading<br>• Test<br>• Tutorial<br>• Labs<br>• Others |
| • add and remove objects from calendarMap | |
| • check conflicts on calendarMap | |
| • Getter of conflictEvent, conflict, dateInfo and calendarMap | |

# CalendarManager

| Responsibilities | Collaborators |
| --- | --- |
| • CurrentManager<br>• futureManager<br>• pastCalendar<br>• currentYear, currentMonth, currentDate | • OurCalendar<br>• Lecture<br>• Assignment<br>• Reading<br>• Test<br>• Tutorial<br>• Labs<br>• Others<br>• Event |
| • Generate and store past and future calendars | |
| • Getters for Monthly Calendar, Weekly Calendar and Yearly Calendar, currentYear, currentMonth, currentDate | |
| • Add and remove events to/from a Calendar | |
| • Notify conflict events for chosen date<br>• Get event time and date info for the selected date | |

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# EventManager

| Responsibilities | Collaborators |
|---|---|
| • Map of Events<br>• Map of Unscheduled Hours<br>• Map of Scheduled Hours<br>• getDay<br>• getType<br>• GetEvent<br>• RemoveEvent<br>• Rescheduable<br>• addEvent<br>• replaceEvent<br>• totalHours<br>• freeTime<br>• chronological | • CalendarManager<br>• Event<br>• Fluid<br>• Repeated |

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# StudentManager

| Responsibilities | Collaborators |
|---|---|
| <ul><li>Create a studentMap with given information and acquired courseList from CourseManager.</li><li>Store student information in studentInfo</li><li>getStudentInfo</li><li>getStudentMap</li><li>addNewStudent</li></ul> | <ul><li>Student</li><li>Course</li></ul> |

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# CourseManager

| Responsibilities | Collaborators |
|---|---|
| • Create courseList of the current user.<br>• Getter of courseList<br>• Getter of one specific course information from courseList<br>• Add Course to courseList<br>• Remove Course from courseList<br>• courseList (array of Course's that the events created belong to) | • Course<br>• Event<br>• Student |

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# MainController

| Responsibilities | Collaborators |
|---|---|
| • DisplayInitScreen<br>• DisplayCalendar<br>• generateEvent<br><br>• Save and Exit the program | • CalendarManager<br>• LoginController<br>• StudentController<br>• CalendarPresenter<br>• ioSerializable |

# LoginController

| Responsibilities | Collaborators |
| --- | --- |
| • logIn<br>• logOut<br>• signUp<br>• isLoggedIn | • StudentController |

# EventController

| Responsibilities | Collaborators |
|---|---|
| Attributes: EventManager and CalendarManager | • CalendarManager<br>• EventManager |
| Schedule – take user input to schedule, modify, remove events | |
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# StudentController

| Responsibilities | Collaborators |
|---|---|
| • Initialize studentManager | • ioSerializable<br>• StudentManager |

# Fluid

| Responsibilities | Collaborators |
|---|---|
| • Setter for fluid hours remaining | |
| • Getter for fluid hours remaining | |
| • Setter for work session length | |
| • Getter for work session length | |
| • Getter for session | |
| • scheduleSession | |

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# AutoSchedule

| Responsibilities | Collaborators |
|---|---|
| • Setter for fluid hours remaining | |
| | |
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# Repeated

| Responsibilities | Collaborators |
|---|---|
| • Setter for repitition | |
| • Getter for list and start times | |
| • @Override conflicts | |
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# IOSerializable

| Responsibilities | Collaborators |
|---|---|
| • Sets up the path creates a ser file | |
| • write and save in the ser file | |
| • read the ser file | |
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# CalendarPresenter

| Responsibilities | Collaborators |
|---|---|
| • Starts from an empty calendar | • Calendar Manager |
| • Add information from the calendar manager | |
| • Display information as string from calendar manager | |
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