Computer Science 2212b
Team Assignment 1
Team 10

Due: February 14th, 2014 at 11:59 PM

Team Members:
Henrique Brighenti
Will Callaghan
Alex MacLean
Stephen Solis
Marcus Tonogai

SECTION 1: PERSONNEL SNAPSHOTS

Alex MacLean started programming in grade 11. After a thorough introduction to Java he didn't pick it up again for several years until he began his studies at Western. Now he's intent on learning as much as he can about web development and software engineering. In addition to Java he has also had experience with C and Unix.
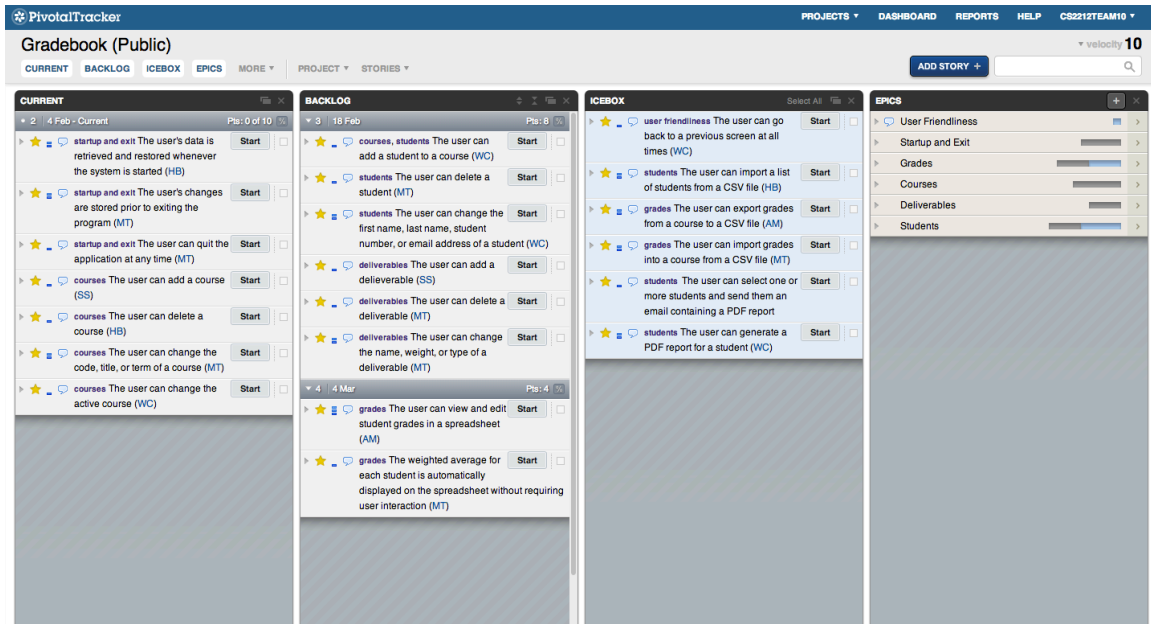
Will Callaghan is currently working towards an Honors Specialization in Computer Science with a Major in Microbiology and Immunology at Western. At this time he would consider his programming skills to be average. He has done well in the courses that have required Java programming, such as CS 1026A/B, 1027A/B, 2210A/B. He has also done well in other other CS courses. Currently he is taking CS 3340B, which is another algorithms class requiring Java programming. In terms of the specialty labs, his focus will be on continuous integration with Jenkins.

Henrique Brighenti is a student of Electrical Engineering at the Universidade Federal de Minas Gerais, in Brazil, and is now doing an exchange program in Electrical and Computer Engineering at the University of Western Ontario. He has experience with C, C++, Java, VHDL, and SQL and is familiar with Linux systems. For his university department he worked as the Computer Network Manager. Recently, he became interested in software engineering, software architecture and digital signal processing.

Stephen Solis has about 8 years of programming experience in Java, and a significant amount of experience with Python, Linux, C, C++, open-source development, web development, and more. He's also competed (and done well) in several programming contests in high school.
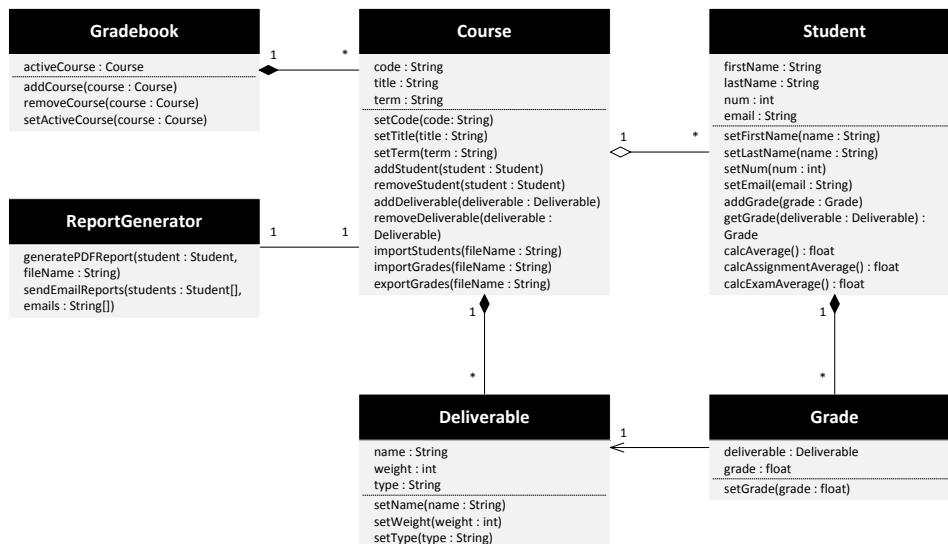
Marcus Tonogai is now majoring in computer science at UWO after completing first year engineering. Prior to university he has had no programming experience. He is familiar with C, C++, and Java and has completed several programming courses including ES1036, CS1027, CS2208, CS 2210, and CS2211.
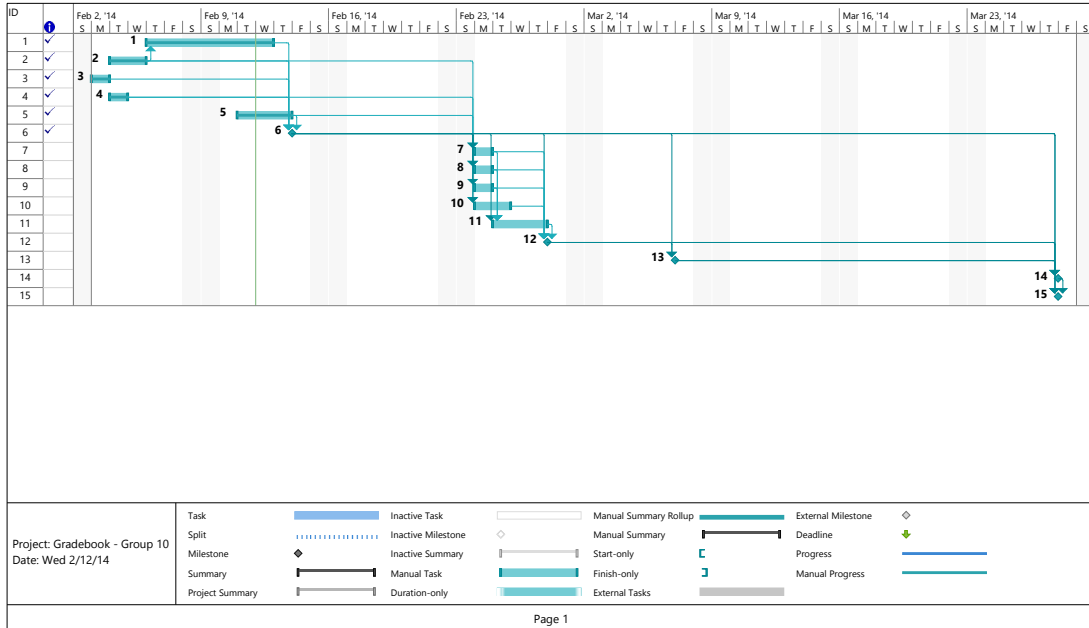
SECTION 2: PIVOTAL TRACKER

PivotalTracker PROJECTS ▾ DASHBOARD REPORTS HELP CS2212TEAM10 ▾

Gradebook (Public) ▾ velocity **10**

CURRENT BACKLOG ICEBOX EPICS MORE ▾ PROJECT ▾ STORIES ▾ ADD STORY +

CURRENT | 2 4 Feb - Current | Pts: 0 of 10

- startup and exit The user's data is retrieved and restored whenever the system is started (HB) Start
- startup and exit The user's changes are stored prior to exiting the program (MT) Start
- startup and exit The user can quit the application at any time (MT) Start
- courses The user can add a course (SS) Start
- courses The user can delete a course (HB) Start
- courses The user can change the code, title, or term of a course (MT) Start
- courses The user can change the active course (WC) Start

BACKLOG | 3 18 Feb | Pts: 8

- courses, students The user can add a student to a course (WC) Start
- students The user can delete a student (MT) Start
- students The user can change the first name, last name, student number, or email address of a student (WC) Start
- deliverables The user can add a deliverable (SS) Start
- deliverables The user can delete a deliverable (MT) Start
- deliverables The user can change the name, weight, or type of a deliverable (MT) Start

| 4 4 Mar | Pts: 4

- grades The user can view and edit student grades in a spreadsheet (AM) Start
- grades The weighted average for each student is automatically displayed on the spreadsheet without requiring user interaction (MT) Start

ICEBOX Select All

- user friendliness The user can go back to a previous screen at all times (WC) Start
- students The user can import a list of students from a CSV file (HB) Start
- grades The user can export grades from a course to a CSV file (AM) Start
- grades The user can import grades into a course from a CSV file (MT) Start
- students The user can select one or more students and send them an email containing a PDF report Start
- students The user can generate a PDF report for a student (WC) Start

EPICS

- ▾ User Friendliness
- Startup and Exit
- Grades
- Courses
- Deliverables
- Students

https://www.pivotaltracker.com/s/projects/1003292

SECTION 3: UML CLASS DIAGRAM

Gradebook
activeCourse : Course
addCourse(course : Course)
removeCourse(course : Course)
setActiveCourse(course : Course)

Course
code : String
title : String
term : String
setCode(code: String)
setTitle(title : String)
setTerm(term : String)
addStudent(student : Student)
removeStudent(student : Student)
addDeliverable(deliverable : Deliverable)
removeDeliverable(deliverable : Deliverable)
importStudents(fileName : String)
importGrades(fileName : String)
exportGrades(fileName : String)

Student
firstName : String
lastName : String
num : int
email : String
setFirstName(name : String)
setLastName(name : String)
setNum(num : int)
setEmail(email : String)
addGrade(grade : Grade)
getGrade(deliverable : Deliverable) : Grade
calcAverage() : float
calcAssignmentAverage() : float
calcExamAverage() : float

ReportGenerator
generatePDFReport(student : Student, fileName : String)
sendEmailReports(students : Student[], emails : String[])

Deliverable
name : String
weight : int
type : String
setName(name : String)
setWeight(weight : int)
setType(type : String)

Grade
deliverable : Deliverable
grade : float
setGrade(grade : float)

SECTION 4: PROJECT PLAN

Project: Gradebook - Group 10
Date: Wed 2/12/14

Task		Inactive Task	
Split		Inactive Milestone	
Milestone		Inactive Summary	
Summary		Manual Task	
Project Summary		Duration-only	

Manual Summary Rollup		External Milestone	
Manual Summary		Deadline	
Start-only		Progress	
Finish-only		Manual Progress	
External Tasks			

ID	Task Mode	Task Name	Duration	Start	Finish	Predecessors	Resource Names	% Complete
1		Complete the Project Plan	5 days	Thu 2/6/14	Wed 2/12/14	2	Alex MacLean,Marcus Tonogai,Henrique Brighenti,Stephen Solis,William Callaghan	100%
2		Learn Microsoft Project	2 days	Tue 2/4/14	Wed 2/5/14		William Callaghan	100%
3		Personal Profiles	1 day	Mon 2/3/14	Mon 2/3/14		Alex MacLean,Henrique Brighenti,Marcus Tonogai,Stephen Solis,William Callaghan	100%
4		User Stories	1 day	Tue 2/4/14	Tue 2/4/14		Alex MacLean,Henrique Brighenti,Marcus Tonogai,Stephen Solis,William Callaghan	100%
5		UML Class Diagram	3 days	Tue 2/11/14	Thu 2/13/14		Henrique Brighenti	100%
6		Team Assignment 1	0 days	Fri 2/14/14	Fri 2/14/14	1,2,3,4,5	Alex MacLean,Henrique Brighenti,Marcus Tonogai,Stephen Solis,William Callaghan	100%
7		Revised UML Diagram	1 day	Mon 2/24/14	Mon 2/24/14	5,6	Henrique Brighenti	0%
8		Revised User Stories	1 day	Mon 2/24/14	Mon 2/24/14	4,6	Alex MacLean	0%
9		Class Descriptions	1 day	Mon 2/24/14	Mon 2/24/14	6	Marcus Tonogai	0%
10		Update Project Plan	2 days	Mon 2/24/14	Tue 2/25/14	2,6	William Callaghan	0%
11		Prototype 6 User Stories	3 days	Tue 2/25/14	Thu 2/27/14	6,7,8,9	Alex MacLean,Henrique Brighenti,Marcus Tonogai,Stephen Solis,William Callaghan	0%
12		Team Assignment 2	0 days	Fri 2/28/14	Fri 2/28/14	6,7,8,9,10,11	Alex MacLean,Henrique Brighenti,Marcus Tonogai,Stephen Solis,William Callaghan	0%
13		Team Assignment 3	0 days	Fri 3/7/14	Fri 3/7/14	6,12		0%
14		Team Assignment 4	0 days	Fri 3/28/14	Fri 3/28/14	6,12,13		0%
15		Final Code Submission	0 days	Fri 3/28/14	Fri 3/28/14	6,12,13,14		0%