

Group #10

June 2nd, 2016

COMP 3350

John Braico

Group Members:

Ben, Barry, Julius, Connel, Deep

Academic Assistant

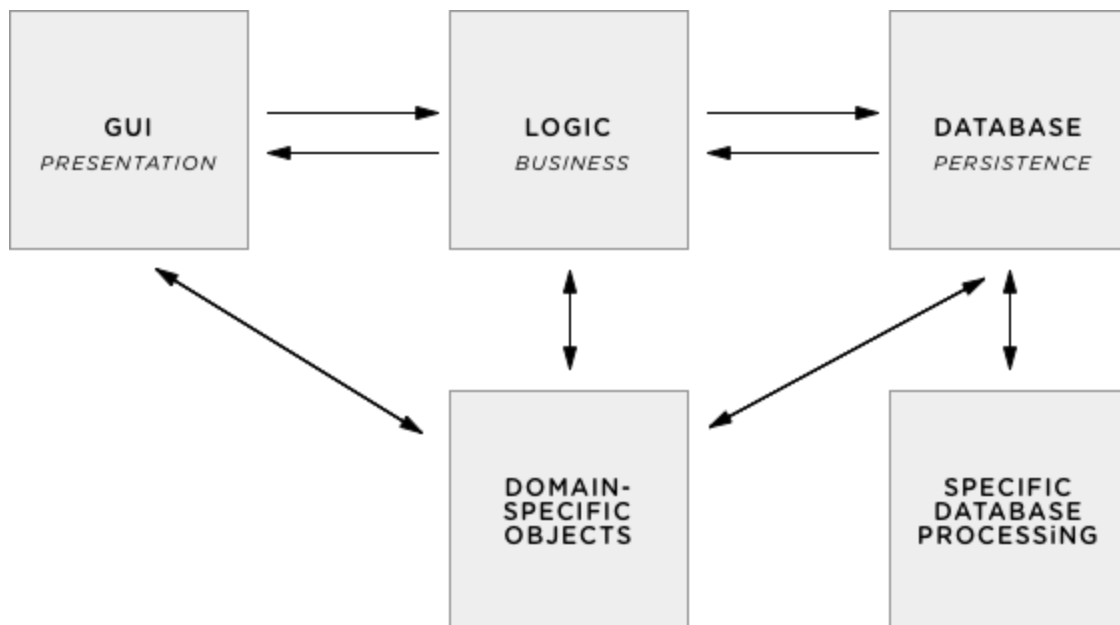
Iteration 1 Hand-In

For our **architectural sketch**, our group used a 3-tier architecture similar to the one discussed in class.

Developer Tasks

Completed Big User Stories

- Create term



- View terms

Story Goals

- Create a term
 - View terms
-
- | | |
|--|-----------------------------------|
| - Create domain-specific objects | (Estimate: 4 hours / Actual: 7) |
| - Set up a stub database | (Estimate: 2 hours / Actual: 5) |
| - Populate the database | (Estimate: 1 hour / Actual: .5) |
| - Integration with Logic | (Estimate: 2 hour / Actual: 3) |
| - Database operations | (Estimate: 1 hour / Actual: 1) |
| - User interface | (Estimate: 4 hours / Actual: 5.5) |
| - Display list of terms and populate | (Estimate: 3 hours / Actual: 2) |
| - Create a term (description and year) | (Estimate: 2 hours / Actual: 3) |

- And add it to the list of terms
- Change presentation (Estimate: 1 hour / Actual: .5)
 - Store data retrieved from database (Estimate: 2 hours / Actual: 1)
 - Sort terms according to time (Estimate: 2 hours / Actual: 0.5)
 - Logic objects (Estimate: 1 hour / Actual: 1.5)
 - Object to calculate GPA of terms (Estimate: 1 hour / Actual: 1)
 - Tests for the logic objects (Estimate: 1 hour / Actual: 2)
 - Testing (Domain-specific objects) (Estimate: 5 hours / Actual: 10)

Group Log

Date	Times	Description
May 12th	2:00-3:00pm	Discussed project architecture as a group.
May 13th	1:00-2:40pm	Implemented initial versions of domain specific objects as discussed in previous meeting. (Barry)
May 16th	12:00-1:00pm	Team meeting to discuss delegation of work for Iteration
	12:00-2:00pm	Creating prototypes and sketches. (Ben & Julius)
	1:00-2:00pm	Discussed and planned developer tasks for first Big User Story (Group)
	2:00-2:30pm	Starting a prototype GUI through Android Studio
May 17th	2:00-3:00pm	Ironed out SVN connection between group members. Discussed implementation specifics of Objects and for Persistence. (Group)
May 18th	1:30-2:30pm	Finished (for now) Object classes (Barry)
	2:30-3:00pm	Went over the Object classes and added minor changes(Deep).
	2:00-4:00pm	Created mockups including Terms page (Ben)

May 22nd	1:00-2:00pm	Began writing tests for domain-specific objects (Barry)
	12:00-3:00pm	Created Terms UI page (Ben)
	7:00-9:00pm	Attempted to integrate Terms page into menu fragment (Ben)
May 23rd	1:30-3:30pm	Attempted to integrate Terms page into menu fragment (Julius)
	2:00-3:00pm	Wrote more tests for objects. (Barry,Deep)
	6:00 - 7:00pm	Discussed how we are going to break down responsibilities for the GUI (Julius,Ben)
May 24th	2:30-5:15pm	Made Terms page use Terms object, edited Term object, created Semester enum (Ben)
	2:00-4:30pm	Group meeting to work together with clear communication, dealt with issues regarding SVN for some time.
	9:00-10:00pm	Started writing logic class - CalculateGPA alongside tests(Deep)
May 25th	12:00-1:00pm	Discussed database and object code ideas (Ben, Barry, Connel)
May 27th	3:00 - 6:00pm	UI: From the main page created an activity page that will ask the user to select a term and a year from a dropdown menu. (Julius)
	4:00-5:00pm	Finished logic and its tests.(Deep).
May 29th	3:00-5:30pm	Integrated the new Term's page with the Term's view page, cleaned up unused UI files (Ben)
	6:30-8:00pm	Debugging some commit error, ended up having to re-check out and redo all my work in steps to be able to commit

		(Ben)
	7:00-9:00pm	Completing remaining tests(Deep).
May 30th	12:00-2:00pm	Duplicate checking for Term creation (Ben, Julius)
	3:00-5:00pm	Refactored some objects/architecture, Added sorting to the Terms, Added .equals and .compareTo to the Term object, Added a Comparator for Term (Ben)
	5:30-9:00pm	Changes to business objects as well as setting up tests and working on Course, CourseElement, AcademicObject and Event tests (Barry).
May 31st	11:30-12:30pm	Team meeting (Group minus Julius)
	2:00 - 2:30pm	Changed padding on the spinners, buttons. Attempted changing text size Moved CreateTerm and ViewTerms into Presentation folder (Julius and Ben)
	2:30 - 3:00pm	Team Meeting (Group including Julius)
	3:30-5:00pm	Reorganized the architecture. Connected the GUI-Logic-Persistence together. Made Icon. Made stub databased and refactored the Persistence. (Ben)
	8:00-9:00pm	Made spinner text size larger by creating a new layout xml file and increased padding in the listview (Julius)
June 1st	12:00-1:00pm	More tests for various Objects and getting JUnit 4 "AllTests" to run smoothly. (Barry)
	4:00-6:00pm	Finished all testing(Deep).

June 2nd	10:00-11:00am	Updates to various tests (Barry, Deep)
	11:00-11:40am	Fixed crash that occurred due to adding new terms (Barry, Ben)

readMe.txt

The electronic submission includes the following files:

- AcademicAssistant (project folder)
- readme.txt

The project is the AcademicAssistant folder. To run the project, use open project in Android Studio and open the trunk folder. This should open up the project code in Android Studio where it can be built and run.

There are two folders where the source files exist main/java and test/java. main/java has the all project source files that are not test files. It includes the following packages:

1. Business — *includes all the logic java files including*
 - CalculateGPA.java
 - TermComparator.java
 - TermLogic.java
2. Objects — *includes all the domain-specific objects*
 - AcademicObject.java
 - Course.java
 - CourseElement.java
 - Event.java
 - Semester.java
 - Student.java
 - Term.java
3. Persistence — *includes the stub database files*
 - Persistance.java
4. Presentation — *includes all the GUI files*
 - CreateTerm.java
 - ViewTerms.java

test/java includes all the JUnit test files. It includes the following packages

1. Business
 - CalculateGPATest.java

2. Objects

- AcademicObjectTest.java
- CourseTest.java
- CourseElementTest.java
- EventTest.java
- SemesterTest.java
- StudentTest.java
- TermTest.java

As soon as the app is launched, you will be able to view the terms that are hard-coded in the stub database. That is the one of the big user stories we implemented. You can view the terms, and also create a new term. There is easy-to-find create term button which is the main function for the activity. It gives the option to select between different semesters and years from drop down menus (called 'spinners' in Android Studio). The new term is then added and list of terms that is being viewed is automatically sorted according to the calendar year before being updated in the ListView.

The group log is attached in the hand in, but to check for periodic updates, the following Google Docs link can be used:

https://docs.google.com/document/d/1_vR5N7kijnzSanXCkzFDOPc9pszXQYUnvqUrrMAaBZ4c/edit?usp=sharing

Our repository can be found at the following link:

svn+ssh://aviary.cs.umanitoba.ca/home/student/yakimchb/softeng_g10/repo

Commit messages for subversion might be a little messy (especially at the beginning of the project) due to subversion being quite buggy for our entire team.

For some of our domain-specific objects, we handle incorrect input/data by throwing exceptions. We might change this in a future iteration depending on how we want to handle incorrect input in later iterations. As of right now, input is limited to predetermined values using drop-down menus or spinners. There are no other user defined values, the only possible values for input are predefined — the users must choose from these.