Code Review

Team gitCoffee (L02_09)

Project Deliverable #5

CSCC01

Tony Hong
Saba Kiaei
Lors Kushtov
Stephen Luc
Frank Xu

November 6, 2017

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Code Review Strategy

Go through every class, and check the items on the checklist:

Checklist

-Do the functions have documentations?
-Check naming conventions.
-Do we have duplication of the code?

-Does the code follow the UML
-Does your code follow the single responsibility principle?
-Does your code follow Open/closed principle?
-Could a design pattern be used, and if it was used, was it implemented correctly?

-Do we have proper unit-tests for every function?
-Make sure to remove un-needed comments or lines of code.
-Have Trys and except where errors can happen.

Assignment

Python classes: Saba, Tony, and Frank
Html/CSS/JavaScript: Stephen, Frank, Lors, and Saba
Server/Database Files: Stephen, Lors

Code Review Summary

Tony Hong

In my opinion there are documentation on about most functions but none in student.py and on some functions, that haven't been implemented yet, should also contain documentation to explain what it is going to do which can let other members see it and maybe fix it.
-There are no comments whatsoever and IMO some of the functions do need it because without searching it up some parts of the code seem a little difficult to follow
-For naming convention, I think we did fine if we all followed the same one because I see us doing camel in some functions and pothole in others
-another convention done wrong is pep8 some lines are too long
-Only duplication is really redo in student.py
-Yes the code does follow UML
-For SOLID design I think all the classes have a clear single responsibility, no the code does not follow the Open/closed principle because some variables don't use the python convention of being private with a underscore in front
-For Liskov's Principle there is no inheritance and there are no interfaces in python for interface segregation
-Yes a design pattern could be used such as the factory method in the professor class to make the assignment objects
- No our unittests doesn't cover every single function because they rely on outside json files which can be done through validation
-Found extra lines of spaces which seems unnecessary
-There should be some try and except implemented later for example when entering an illegal student ID such as -2 the code will accept that as a valid id

Saba Kiaei

Checked: Merge pull request #8

Checklist:
Most options on the checklist don't apply.

-Do the functions have documentations?
templates/assignment.html
templates/assignmentGrade.html
templates/index-student.html
Had no comments.
templates/viewGrades.html
Had comments about different sections, but still not explanatory.
templates/css/styles.css
Had comments about different sections, but still not explanatory

-Check naming conventions.
Everything is consistent with the conventions.

-Do we have duplication of the code?
Redundant code. A lot of copy paste in the html files. We should modularize the html code.

Extra notes:
CSS files have okay documentations, but the html files need to be worked on.
We don't really check for input validation which makes the code crash in case of wrong input.
This needs to be fixed as soon as possible.

Lors Kushtov

Checked: Server/Database Files

-Do the functions have documentations?

There is very minor documentation. Even though there are not too many files, more commenting should be done in order for team members that are not familar with the code, to quickly catch up.

-Check naming conventions.

Name conventions are good as they follow the conventions set by Flask and postgresql.

-Do we have duplication of the code?

Code duplication is at a minimum.

-Does the code follow the UML

Yes it does.

-Does your code follow the single responsibility principle?

The server could be modularized using Flask blueprints. Having all of the server get and pull functions in the app.py is not the best solution.

-Does your code follow Open/closed principle?

Yes it does.

-Could a design pattern be used, and if it was used, was it implemented correctly?

The MVC design pattern was used and it was done implemented correctly as it is a good fit for what flask provides.

-Do we have proper unit-tests for every function?

This is not needed for server/database. Implements Flask and postgresql.

-Make sure to remove un-needed comments or lines of code.

All unneeded files have been removed. There are a few lines that are commented out that should be deleted.

-Have Trys and except where errors can happen.

No trys and except in the server. Should be able to catch routes (eg. app/route) that have not been implemented. Right now gives a 404 error.

Stephen Luc

-Do the functions have documentations?

A lot of it was bootstrapped so there isn't much code explaining what the code is doing

-Check naming conventions.

Follows coding conventions

-Do we have duplication of the code?

A lot of duplication in the html files

Can modularize the header, nav, footer in html files

-Does the code follow the UML

The database models so far follow the uml

-Does your code follow the single responsibility principle?

The app.py file can be split up so that different files will handle different urls

-Does your code follow Open/closed principle?

Yes

-Could a design pattern be used, and if it was used, was it implemented correctly?

We are currently using MVC

-Do we have proper unit-tests for every function?

Do not have any tests for testing if server and database properly work

-Make sure to remove un-needed comments or lines of code.

There are some comments that need to be deleted and also deleting repeated code and modularizing the code

-Have Trys and except where errors can happen.

So far no try/excepts have been implemented in but some will need to be to catch non-existent urls. Also will be needed for querying the database.

Frank Xu

Checked: Merge pull request #10

Do the functions have documentation?

-No, not every function has proper documentation

Are naming conventions consistent?

-No, some of the code follow pothole case, while others follow camel case.

Is there duplication of code?

-Yes, redoAssignment simply calls another function in the same class.

Does the code follow the UML?

-Yes, the code follows the UML.

Does your code follow the single responsibility principle?

-Yes, all classes and its functions follow the single responsibility principle

Does your code follow Open/closed principle?

-No, missing getters and setters for certain data and values (e.g. setName in Student class).

Could a design pattern be used, and if it was used, was it implemented correctly?

-Yes, we could have used factory design pattern.

Do we have proper unit-tests for every function?

-No, we don't have a unit test for the makeAssignment function

Make sure to remove un-needed comments or lines of code.

-All un-needed comments are removed. Only have comments for code that is hard to understand.

Have Trys and except where errors can happen.

-No. (e.g. grade_assignment function, should have try and except for file opens)