SFU SIMON FRASER UNIVERSITY
ENGAGING THE WORLD

CMPT 277-3 E100 – Software Engineering I
Fall 2017

Assignment 5 (9%) – Version Three[1]

Due date: See below

Note: This assignment requires everything required by assignment 3 and assignment 4, plus the following.

A) Documentations and other deliverables:
Due: Mon Dec 4, 2017 17:00

1. Source code: A zip file contain the final release of all source code developed as part of this project. [Zip file number 1]
2. Documents (see below): [Zip file Number 2]
3. Final PPT. [Zip file Number 2]
4. Movie: A short movie that showcase the operations and main feature of your application. Pease submit your video to our class YouTube account and note:
    a. Naming convention: 2017-3-GroupXX-ApplicationName (XX = 01 for group 1, XX = 10 for group 10, ApplicationName is the name of your application)
    b. Please feel free to enter metadata about your group (e.g. member's name, description of the application).
    c. Login name: mobileapplicationsdev
    d. Password: TBD (project manager please contact the professor)
    e. Let your creativity flow in this movie! =)

Submit two zip files to canvas:

1. [Zip file number 1] Source code in a zip file with name **2017-3-CMPT275-Group-XX_src.zip**
2. [Zip file number 2] The following documents in a zip file with name **2017-3-CMPT275-Group-XX_doc.zip.** Document should be submit in two formats: MS Word (or MS PPT) and PDF. File submitted should be in the following filename convention**.**
    a. **Group-XX-Requirements.docx:** Final updated version Requirement Document (from assignment 3 & 4)
    b. **Group-XX-Design.docx:** Final updated version Design Document (from assignment 3 & 4)
    c. **Group-XX-QA.docx:** Final updated version of the Quality Plan (from assignment 3 & 4)
    d. **Group-XX-Presentation.ppt**: The PPT of your presentation.

[1] Special appreciation goes to Dr. Toby Donaldson for some of the description of this assignment.

e. **Group-XX-Tutorial.docx:** An end-user "getting started" tutorial document which show off the application. Reader should be able to understand the operation of your app by reading this document. Include at least one of the main usage scenarios. Please feel free to include screencast of the application and make sure you document these figures.
f. **Group-XX-Features_FulfllmentReq.docx:** A summary of features and fulfillment of requirement audit (use the following format in Table 1 and 2). Be honest in your report. Table 1 should contain all features that you promised in the proposal. It should be clear in the table that what was promised and what is being delivered.

Table 1: Feature Summary and Delivery Schedule

Example
Group: XX
Members: XX

	Version 1		Version 2		Version 3		Comments
All features listed in the proposal with description	Original plan	Delivered on	Original plan	Delivered on	Original plan	Deliver ed on	
1.GUI							
1.1 Feature 1	X	2015-02-03					On schedule
1.2 Feature 2	X	2015-02-30					On schedule
1.3 Feature 3			X	2015-03-03			On schedule
2. Connection to Database							
2.1 Feature 4			X	2015-03-30			On schedule
2.2 Feature 5	X			2015-03-15			Delay due to purchase of hardware
2.3 Feature 6							Did not deliver.

X = completed, red color = not delivered

Table 2: Fulfillment of Requirements

CMPT 275 Project Requirement	**Fulfillment of requirement? [X]**	**Justification of fulfillment and explanation** (explain why your application has fulfilled this requirement)
Data Input: Mechanism of input, manual or read a dataset from a file, or from a web site (e.g. User entered data, data from other sensors, RSS feeds)	[ ] No [ ] Yes	
Archiving: Some of the information will be saved in an archive form. For example: SQL database (e.g., mySQL), flat file, or an online data storage (search the Web)	[ ] No [ ] Yes	

Analysis: The application will in some way perform analysis function to the data collected. For example, data search (discovering specific services/products among those available), sorting, regression analysis, other statistical analysis, etc.	[ ] No [ ] Yes	
Display: Visualization of the analysis results (perhaps using graphs and charts.)	[ ] No [ ] Yes	
Network components: The system must have components that are accessible over the Web, using a web browser or a specialized application client (e.g. Wi-Fi and cellular network connectivity)	[ ] No [ ] Yes	
Mobile feature: Utilizing at least one feature of the particular mobile platform (in additional to Wi-Fi and cellular network connectivity), for example: accelerometer, GPS location, camera, video recording, etc.	[ ] No [ ] Yes	

B) Final Presentation

Due: Mon Dec 4, 2017 during class

Your final presentation must be no longer than 9 minutes + 2 minutes for Q&A (Total time should not be longer than 11 minutes). Presentations that are too short or too long will be penalized. All PPT and relevant files should be pre-loaded to the computer in the instructor's station. Use Microsoft PowerPoint and design your presentation to be interesting and informative for both technical and non-technical audience members.

Before class, put your presentation and other relevant materials (e.g. video) on a USB stick. Upload your materials to the computer provided in the lecture hall. Most likely it will be a PC running MS Windows operating system. You are encouraged to try out the computer before the presentation. You should be able to login to the computer when the class is not in session.

You must provide minimum the following:

- A title slide should contain
  - All member's full name and email address
  - Team's name
  - Name of the application
  - URL to your team website.
  - Date of the presentation
- A clear and short summary of your system that ordinary non-technical users could understand and find helpful.
- Tell us what your system does in clear, non-technical language. What are its most interesting features? Why should people download and use your application over others?
- A system architectural diagram (not a class diagram of the software!!) of your system. Summarize the basic system implementation details and design choices.

[Example in our text book includes but not limited to Figures 6.11, 6.13, 13.3, 13.4]

- A discussion of the quality assurance steps you followed. Don't bore us by listing dozens of low-level test cases. Instead, summarize all the testing you have done, and tell us why we should believe your system is error-free and works as promised.
- How many known bugs do you have? Are there features you intended to implement that you didn't?
- List feedback --- good and bad --- from real users (i.e. people not on your team!) of your system. If you had no real users, then say so.
- Finally, give a post-mortem analysis of your team and project. The following are some example questions you can consider. **Keep this section brief and positive since we often will have visitor for this presentation.** Give a summary narrative which should address the following questions. e.g.
    - What project management techniques worked well, and what worked not so well?
    - What were the major technical problems you encountered?
    - What were the major "human" problems you encountered while working as a team?
    - If you were to do the project over again, what would you do differently? What would you have done the same? What advice would you give to next year's students?
    - What did you learn?

This is a formal presentation, and so it is expected to be substantially more polished than your previous presentations. You are expected to dress up for this presentation as well. Your group should do at least one practice run-through, and read general advice for giving oral presentations, such as this (http://pages.cs.wisc.edu/~markhill/conference-talk.html) or perhaps this (http://www.aresearchguide.com/3tips.html).

What to wear? Business casual. When in doubt, business attire will always work.

See http://www.career.vt.edu/JobSearchGuide/BusinessCasualAttire.html and https://www.youtube.com/watch?v=n0DFwGy8wUg

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