JAV 745: Programming Using Java : Project (12.5 %)

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Due Friday October 18, 2019 - 11:30 pm

Instructions

This project is to be completed with individually. This work is worth **12.5%** of your final grade. You are to submit your project in the appropriate dropbox on Blackboard.

Note that the deadline is strictly enforced. The system tracks the exact time that submissions are uploaded. **There is a 10% per day penalty for late submissions.**

1   Article

Your task is to write an article (suitable for submission to a publication like JavaWorld) about object-oriented programming and design. Your work should discuss the history of OO, major OO principles and use cases to help the reader understand the discipline. You can assume that the reader is at the level of a DAD student before taking any courses. That is, he/she has a basic understanding of programming but knows little about object-oriented development.

The reader should have answers to the following after reading your paper

- **history** - *who developed the notion of object-oriented development? why was it introduced (i.e. what makes it better than other paradigms available at the time)? how has it evolved over time?*
- **major concepts** - *from a conceptual level, what are the defining principles of oo? how are they related?*
- **implementation** - *how are these ideas realized in an actual programming language? how do the oo semantics differ in a language such as Java versus one like JavaScript. (you must at least include these two languages)?*

2   Grading

Your work will be judged on the following.

- **content**. The "meat" of your work. Technical detail should be included but should be presented in a way such that readers unfamiliar with the technology can understand it. You can assume your audience is at the level of your peers, reasonably familiar with programming but not with object-oriented concepts.

    Work should progress logically and seamlessly from one section to another. Your text should be supported with examples so that the reader has a clear understanding of your ideas. The examples presented must be different than the ones discussed in class.
- **spelling/grammar**. Papers at this level should be virtually error-free.
- **references**. There should be sufficient quantity and quality. Quality references are peer-reviewed journals, published books and web-pages of large established companies or research colleges/universities. Personal blogs and wikis are not seen to be reliable sources. A variety of different sources is ideal. References should be cited according to a recognized standard (either APA or MLA is fine). The work should also recommend good sources for further reading.

- **graphical content**. High quality pictures or graphs to help illustrate the paper's ideas should be included where appropriate. Figures containing code snippets and screen shots help the reader conceptualize your explanations.