UECS2363 SOFTWARE CONSTRUCTION AND CONFIGURATION

Assignment 2 : Individual Report

The Course Objective (CO) assessed in this assignment is CO3: Identify tools for improvement of the quality of software construction and configurations.

Identify ONE (1) active open source software project (at Github, Bitbucket, etc.) with minimum of TEN (10) contributors irrespective of the programming language (C, C++, C#, Java, Go, PHP, Python, HTML, node.js, Django, etc.) used.

Register your project title in "Assignment 2" spreadsheet in this **Google Sheet**. Make sure that NOT MORE THAN THREE (**≤ 3**) have the same project title registered on *first-come-first-serve* basis; to avoid identical works among you. *You are allowed to change the project title as long as not more than three others have registered it*.

The followings are the workflow that should be done after securing the project title. *The outcomes should be included in the content of your report*;

1) Identify which version control software/system that the developers used to contribute to the project. The project should come with test scripts.
2) Clone the project, follow the instructions by the project author to produce the final software with build and test reports.
3) Identify the tools used to build, test and deploy (if any) the executables from source codes.
4) Describe how one can be involved and contribute to this project. Make contributions (bug fix, add new feature, design a new logo, etc) and show the proofs that your works has been integrated into the project e.g. merge, pull requests, merge confirmation, etc.

Produce a 10-page report to describe about the project, which consist of, but not limited to the following:

a) An overview of the project
b) Version control system used and its workflow for the developers to work collaboratively
c) Development tools used in the project
d) Your contributions with proofs
e) Your analysis and opinions on the projects' coding practices, source code, version control system, the development tools, and the quality of the code and test scripts.

Submission Procedure:

1) Name your report as the following:
   UECS2363A2_<ID>.pdf, where <ID> denote your university identity number. e.g. **UECS2363A2_UEB1111111.pdf**
2) Submit the softcopy of the report via WBLE (https://ewble-sl.utar.edu.my/) before **6.00pm**, **14 August 2018 (Friday)**.
3) Report content formatting:
   i. Font-type: **Times New Roman**
   ii. Font-size: **12pt**
   iii. Paragraph: **Single spacing**
   iv. Alignment: **Justified**

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UECS2363 Assignment 2 Marking Rubrics:

Criteria	Lowest			Highest		Total (30%)
	1	2	3	4	5	
Language clarity and formatting.	Poorly articulated ideas in own words / similar with other sources and messed up formatting.	Large improvement for ideas articulation in own words and formatting.	Acceptable articulation of ideas in own words and followed pre-defined formatting.	Good explanation of ideas which leading readers to understand quickly and well-arranged report.	Original, great explanation and well-arranged report.	
Imitation: identify software tools used.	Software or tools poorly articulated in own words / not identified / similar with other sources.	Large improvement in articulation of the software tools used in own words.	Software tools listed out / explained briefly.	Good explanation of the software tools which portray good knowledge.	Great explanation which portrayed ability to apply the knowledge.	
Manipulation: explain usage and implications of using software tools in software construction and configuration.	Usage of software tools are poorly explained / not understood correctly / similar with other sources.	Large improvement in explaining usage of software tools.	Usage of software tools were explained briefly.	Good explanation of usage of software tools which portray good understandings.	Great explanation which portrayed ability to manipulate from understandings.	
Develop precision: demonstrate usage of software tools for contribution.	Usage of software tools poorly demonstrated / similar with other sources.	Large improvement in demonstrating usage of software tools.	Demonstrations were shown with brief elaboration.	Good demonstration with explanations in own words, portraying good understanding.	Great demonstration with explanations in own words, portraying control of software tools usage.	
Develop precision: complete the software development (quality of contribution).	Contribution(s) is random / simply adding another file / similar with other sources.	Contribution(s) is meaningful but not significant to the betterment of the project.	Contribution(s) is meaningful but lack of significance to betterment of the project.	Contribution(s) is meaningful and with a little significance to betterment of the project.	Contribution(s) is meaningful and significant to betterment of the project.	
Develop precision: demonstrate and recommend on software development practices.	Practices are poorly articulated in own words / similar with other sources.	Large improvement in demonstrating with own opinions for best practices.	Demonstrations with own opinions were briefly elaborated.	Good demonstrations and explanations of own opinions which portray good understandings.	Great demonstration which portrayed ability to calibrate and apply best practices.	