APPENDIX I

Software Quality Attributes Calculation Table.

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| Software  Quality  Attributes | FormulaUsed / Explanations / Solutions | | Computation | | Interpretation |
| Adaptability | Number of interface that responds  to different resolutions  Adaptability = -----------------------------------x 100%  Total number of interfaces | | Adaptability  = (29/32) \* 100%  = 90.6% | | Very Good |
| Number of interface that responds to different resolutions:  With the given number of interfaces, 29 of it are responsive to different screen resolutions of the user.This indicates that the system is able to adapt to changes in resolution easily without affecting its functionalities.  Total number of interfaces:  Adaptability is a software quality attribute which refers to the level of how the system easily supports changes in environment and platform.The application has a total of 32 interfaces where repeating interfaces are counted as one.If a system is able to easily adapt to the changes of the user’s environment without further hassle like working from a pc to a tablet, then it is considered to have high adaptability. | | | | |
| Consistency | Number of users who  unsuccessfully finished a task  Accuracy =1 - ------------------------------------x 100%  Total number of users | | Consistency  = 1 - (27/ 30) \* 100%  = 90% | | Very Good |
| Number of user who unsuccessfully finished a task:  Out of 30 users, there are 3 users who cannot finish a task after performing the other. The other 27 users said that the process flows and data content of system are consistent making it easy to follow.  Consistency Value:  This type of software quality attribute is denoted as the level of how the environment and behavior stay the same throughout the system. It shows that there is one look and feel that the user would not feel lost in using the system when transitioning from one function to another.The application has a total of 30 different users who used the system for evaluation. | | | | |
| Operability | Numbers of functions in  which users found to be  inconsistent  Operability = 1 - -------------------------------x 100%  Total number of functions | | Operability  = 1 - (54 / 56) \* 100%  = 96% | | Very Good |
| Numbers of functions in which users found to be inconsistent:  Out of 56 functions, there were 2 functions that have been found inconsistent. These functions were beyond the control of the developers but they would still makeup to fix the inconsistent functions.This indicates that the system has high operability and would provide correct and proper outputs to the intended users.  Total number of Functions:  The application has a total of 56 functions for the whole system based from its function point analysis. The developers gathered different users to evaluate and test the functionalities of the system. | | | | |
| Learnability | Number of users that have  improved task time  Modularity = ---------------------------------x 100%  Total number of users | | Learnability  = (28 / 30) \* 100%  = 93% | | Very  Good |
| Number of users that have improved task time:  At the end of the evaluation, the developers have acquired that out of 30 users, there were 28 users that have improve task time.This means that the learnability of the system is high and users can easily lean the processes of the system.  Total number of users:  The developers gathered 30 different users to test and use the application. The users performed a specific task for three times and the proponents track their task time in each try. | | | | |
| Assurance | Number of functional  Operability = 1- functions\*100%  Number of Functions | | Assurance  = (38 / 38) \* 100%  = 100% | | Very Good |
| Number of functional functions:  After the evaluation of the users, the developers found that all functions are functioning. This shows that the application provides users with assurance that it would provide them with the output that they needed.  Number of Functions:  Asean Aid Map has a total of 38 functions in the point of view of a registered user. The developers gathered 30 different users to test and evaluate the different functionalities of the system. | | | | |
| Authorization | Number of modules present to  Authorized user  Training = ------------------------------------x 100%  Expected number of modules | | Training  = (16 / 16) \* 100%  = 100% | | Very Good |
| Number of Evaluation Passers:  The developers gathered different users to register and test the system. After the evaluation and testing, the team got 16 out of 16 modules were given to authenticated users.  Total Evaluation Examinees:  The Asean Aid Map is a web application that allows users to register for them to unlock and use the other modules and functions of the system. Aside from the modules that are present in the public, there are 16 modules that are given only to authenticated users. | | | | |
| Completeness of Information | Number of empty or incorrect  placeholders  COI = 1- --------------------------------x 100%  Total number of placeholders | Training  = (40 / 40) \* 100%  = 100% | | Very Good | |
| Number of empty or incorrect placeholders:  The users have a registered account and test if the content of each placeholders in different views are displaying the correct information. After the evaluation and testing, the proponents found that zero out of 40 placeholders are not displaying proper information.  Total number of placeholders:  The Asean Aid Map is a web application that has a mission which is to provide useful and understandable information to its intended users. There are 40 placeholders that needs to be displayed with correct information. | | | | |