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Assignments

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Settings for "Requirements Change and Final Report (2014 Team Assignment 6)"

Created by	Gail E. Kaiser
Date created	Oct 20, 2014 3:27 pm
Open	Nov 6, 2014 12:00 am
Due	Dec 19, 2014 5:00 pm
Accept Until	Dec 19, 2014 5:00 pm
Modified by instructor	Nov 5, 2014 8:03 am
Student Submissions	Single Uploaded File only
Number of resubmissions allowed	Unlimited
Accept Resubmission Until	Dec 19, 2014 5:00 pm
Grade	Points (max 20.0)
Alert:	Yes
Honor pledge:	Yes

Assignment Instructions

Your team final report document should consist of a single file uploaded to courseworks plus the specified material entered into JIRA at http://ase.cs.columbia.edu/jira. The actual implementation code, including all testing code and scripts, should be maintained using git in STASH at http://ase.cs.columbia.edu/stash. Only one member of your team should submit the courseworks file (but all team members can edit jira and stash). You may submit the courseworks part as often as you want up to the deadline.

For this assignment, you should try to resolve any remaining bugs from previous assignments, and present a (hopefully) bug-free final demo to your TA prior to the deadline for this assignment (schedule the demo for sometime during finals week).

In addition, you will be assigned a significant requirements change by your TA. The details of the change will be specific to your project; the intent is to add functionality that makes sense for your project but you (apparently) didn't think of earlier. This requirement is not "optional", to get credit for this part of the assignment you must add this functionality to your system and show the results to your TA as part of your final demo.

The first page of your document should indicate your team name and list the full names and uni's of every team member.

The second page should give a short synopsis (overview) of the project you actually completed. This can be copied verbatim from a previous document if nothing has changed.

The third and remaining pages should present your interpretation, design, test case development and implementation of the new requirement, followed by the resolution of your bug reports from the previous team assignments and a re-assessment of your project's risks.

Starting on the third page labeled "Requirements Change", and continuing for one or more pages, explain your understanding of the user story provided by your TA, which you should elaborate here into one or more use cases. Assume your users could be any combination of clueless first-time software users and very clever malicious hackers. Present and discuss your new design that adds this requirement, including new or affected class and sequence diagrams; you do not need to repeat any previously submitted use cases, class diagrams or sequence diagrams that have not changed. Explain the new test cases you devised, whether acceptance or unit level, and how you resolved (or weren't able to resolve) any new bugs found in your implementation. (Add all this material to JIRA/STASH as well as reporting it in the courseworks document.)

Starting on a new page labeled "Bug Resolution", and continuing for one or more pages, repeat the bug reports (copied from JIRA) for any bugs that were still unresolved after the previous team and pair

assignments. These might be bugs discovered during initial development, during code inspection or coverage testing, during regression testing after introducing the new functionality, or at any other time. Note this might include coding problems that may not be evident during program execution, such as unreadable code.

For each bug, describe the process you followed to try to find and fix the bug. In the case of bugs that can/do manifest during program execution, indicate one or more test cases that revealed the bug; these tests should have initially failed (before you fixed the bug). Fix the bug, and now these test cases should pass. "Close" a bug only after all relevant test cases have passed. For those bugs that you could not or did not fix, record the status. For example, a test case might have demonstrated there is a bug but you do not know exactly which code is involved; you might have localized the bug to a specific method or statement but still not fixed it; you might have changed some code attempting to fix it but that didn't actually fix it - or perhaps the new/modified code fixed that bug, but introduced a new bug or reopened an old bug. All of these materials should be included/updated in JIRA as well as in your courseworks submission.

Finally, starting on a new page labeled "Risk Re-Assessment", and continuing for one or more pages, first copy verbatim what you submitted for risk assessment in the corresponding previous assignment. Now imagine that your system has been deployed to the general public, and is available to both those clueless and malicious users mentioned above. Your team will have to maintain it for the next five or so years (no you can't quit the job). Starting with a new paragraph, describe what you now think, in retrospect, were/are the truly most significant risks to your project and why this is the case; these might indeed be the same risks, but you still need to explain why you think so.

Additional resources for assignment

- Team6MBugsFinalReport.pdf (191 KB; Oct 20, 2014 3:42 pm)
- FinalReport.pdf (308 KB; Oct 20, 2014 3:42 pm)