CS305: Software Engineering

Maximum Points: 8 End-semester examination (online, take-home) 12/12, 7PM - 19/12, 11:59PM

Instructions:

This exam is online and open (book/notes-printed/notes-written/electronics/neighbor-physical/neighbor-virtual). State your assumptions (if any) clearly in a file named assumptions.txt.

*There are two questions in this exam. You need to answer each of the following questions. Upload your responses in your GitHub repository (; for submitting the exam, follow the same procedure that you have been following for PA submission). Your responses must be saved in a file called Responses.pdf. The link that lets you create a repository is emailed to you. The repository contains all the material that you need to start answering the exam. Incorrect submission (including incorrect naming of the response file, Git commit, and tagging), carries a **penalty of 2 points**.*

1. **Open-Source Contribution** (possible topics covered: design and code reviews, bug filing, testing, and documentation) **6 points**

   Everybody, regardless of their skill level, can contribute to Open-Source software and help improve the software or its documentation. *Choose any Open-Source software (that you use regularly) and submit a Bug Report, Pull Request, Documentation Improvement or Feature Enhancement*: to do this, you will need to research how the software project handles contributions and bug reports, research what communications media it uses (mailing lists, Slack, IRC, GitHub, Bugzilla, etc.) and find out how to best contribute.

   Write a brief report (max. 2 pages) about your contribution to the Open-Source software. *Your report should clearly mention the details of the Open-Source software and your contribution. Note that Open-Source software here does not mean publicly visible repositories of projects, assignments, and tutorials (from individuals) related to courses offered in academic institutions.*

2. **Tools and Frameworks**

   List ***all*** the software (including outside CS305 software, including plugins / add-ons, frameworks, special browser requirements, hardware requirements, operating system requirements, online meeting requirements, programming and execution environments and any other tools) that ***you used*** during Autumn 2020. Create a table with 4 columns (Sr. No, Course Name, Software name and details, Installed on Laptop (yes/no)). For software details (3rd column), provide a URL or any other information that is useful to identify the software. For the site of software installation (4th column), if not installed on laptop, *clearly mention where the software was installed and how you got started using the software.* **2 points**