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SE 410 - Assignment 4 2/29/2016 Бутерброд Sandwich report

Capex Investment

• 10 JA Henckels Cleavers: \$23798 each

• 10 Peanut Butter and Jelly Dispensers: \$15195 each

Total: ₱189940 out of ₱75976050

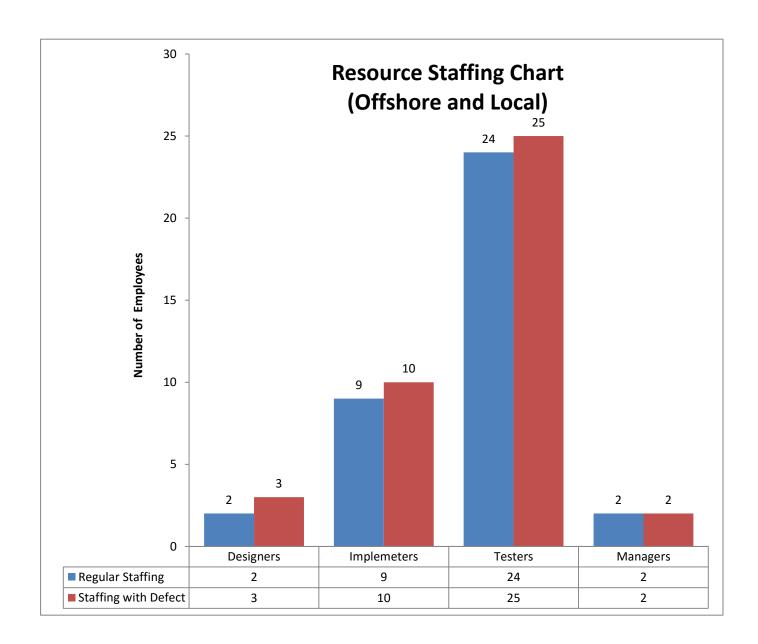
Process Improvements

In addition to the use of the cleaver for cutting, we have added the use of PB&J condiment dispensers to decrease implementation time by 13.37 seconds. This has resulted in a reduced requirement of team size from 9 implementers to 7 implementers

Labor Rate Calculations

With high and low probability offshore labor at 25% wages, and improved processes:

- Total cost for year's order will be ₹86853141
 - o Reduction of \$238069487 from previous cost estimate
 - o This is still ₱10866141 over budget
- With 10% defects in regular team and 30% defect rate offshore, total projected cost will be \$\mathbb{P}97358875
 - o This is still \$27563752 less than cost estimate before offshore team is added
 - o Offshore team with 3x defect rate at 4 labor rate is more profitable than entirely local team
 - o **₽**21371875 over budget

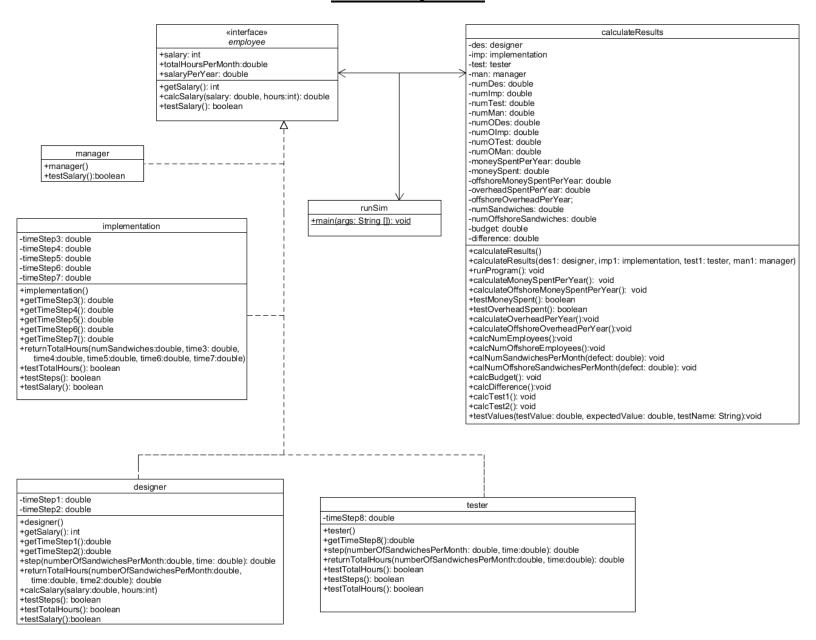


Code Review

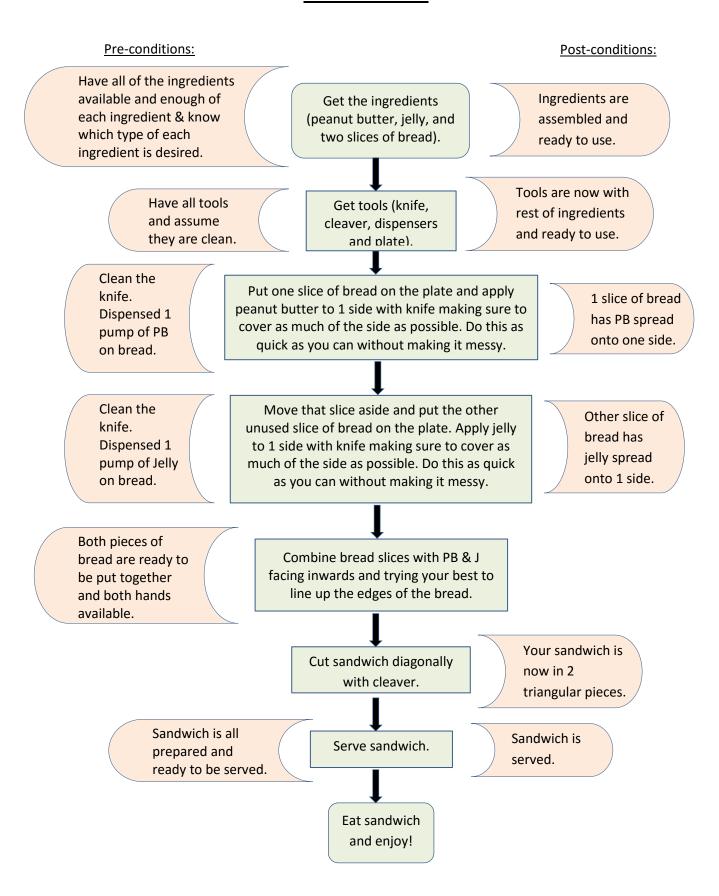
- 1. Is the code reusable? Yes.
- 2. Were the functions well thought out and object oriented where possible? Yes.
- 3. Are the comments clear and useful? Yes.
- 4. Were there enough comments? Yes.
- 5. Is the code as efficient and clean? Yes.

We decided to do the code review after the code is committed, rather than before. This way, the code that works is put out to production and not delayed. We also decided that the code review would be done by someone close to the engineering team, who understand the purpose of the code but did not write it themselves. This allows for a fresh set of eyes to review the code instead so that they can be more objective than a person who wrote the code. Another perspective and new insight will produce more beneficial results to help in improving any code.

Class Diagram v2



Flow Chart v2



Sequence Diagram v2

