

SOP - Debugging

Those are the steps that need to be followed when debugging a feature.

Before starting debugging:

1. Open the *Trello* bug card.
2. If the card is not assigned to you already, add yourself to the card.
3. Read the title and description of the card. Make sure you understand all those items.
4. Move the card from the “Bugs” to the “Ongoing Debugging” list.
5. Merge the development branch with your own branch or request a merge from Jad.

During debugging:

- Work on your own branch, code will be pushed to the development branch for review, and pushed to the master branch if stable and bug-free.
- Make sure you don't affect other features and that your fixes do not leave unused code.
- Comment **excessively** on the added or modified code to explain the use of each section and sub-section of the code. If the tester or the reviewer has trouble understanding the code, the card will be pushed back to you for you to add the comments necessary.
- If you need help or need explanation on a particular method because you need to re-use it or slightly modify it, comment on the *Trello* feature card by tagging the original developer of the section in question. If you don't know who to tag, tag Jad and he'll tag the appropriate person in his reply.
- Every commit description **has to** start with “Feature #featureID - Debugging:” in development and what does this commit fix in the solution.
- **After every debugging session** (e.g. day) - On the *Trello* bug card:
 - Add a comment to it with the progress that you've done on that particular bug.
 - **On the bug card and on the feature card:** Increase the number of hours worked on this bug accordingly (the number of hours worked on the feature are indicated between square brackets at the end of the title).

If you are not able to reproduce the bug or need more information on the bug:

1. Open the *Trello* bug card.
2. Move the card to the “Need more information” list.
3. Add a comment on the bug card by tagging the original founder of bug. If you don't know who to tag, tag Jad and he'll tag the appropriate person in his reply.
4. When the clarification is made, move the card back to “Ongoing Debugging”.

After debugging, if the software is stable and seems bug-free:

5. Open the *Trello* bug card.
6. Move the card to the “Fixed” list.
7. **On the bug card and on the feature card:** Increase the number of hours worked on this bug accordingly
8. Remove yourself from the bug card.
9. Open *Trello* feature card.

10. **Make sure that all the acceptance criteria is still met.**

11. Move the card from the “Bug Found” to the “Ready for QA” list.