SOP - Development

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

Before starting development:
1. Open the *Trello* feature card.
2. If the card is not assigned to you already, add yourself to the card.
3. Read the title, description, acceptance criteria, any other checklists on the card, as well as the comments on the card. Make sure you understand all those items. If you need clarifications, do not hesitate to ask Jad.
4. Move the card from the "Sprint Backlog" to the "In Progress" list.
5. Before creating classes or adding functionality, look at the Class Diagram in the "Diagrams" folder of the repository. The diagram is updated at the end of each iteration.
6. Identify what classes need to be created, or to which class can the methods be added. Stick to the MVC architecture as it now stands! When in doubt, ask Jad where to put the methods required by the feature.
7. Create a branch with the ID number and name of the feature ("Git Flow" button on SourceTree). This is the branch on which all work related to that feature will be done.

During development:
- **Comment excessively** on the 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* - Development:" and what does this commit add to the solution. (ID can be found in the title of the card)
- **After every development session** (e.g. day) - On the *Trello* feature card:
  - Add a comment to it with the progress that you've done on that feature.
  - Make sure to check off the checklist items that have been completed (e.g. Acceptance Criteria items).
  - Increase the number of hours worked on this feature accordingly (the number of hours worked on the feature are indicated between square brackets at the end of the title).

After development, if the software is stable and seems bug-free:
1. Open *Trello* feature card.
2. **Make sure that all the acceptance criteria have been checked off**. If it's simply not possible or feasible to complete all the acceptance criteria, comment on the card identifying what criteria cannot be completed and why.
3. Move the card from the "In Progress" to the "Ready for QA" list.
4. Increase the number of hours worked on this feature accordingly.
5. Remove yourself from the card.