Bits Please

Bug Tracking Policy

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**Bug Tracking Policy**

We will create test code that will test each of our modules regularly for errors. Each test file will correspond to a module and contain sample data for inputs and outputs. It will run the module, supplying it with the sample data as input as if it were from another module (as it will be in the final working version), and ensure that the module processes the data correctly and returns an output that is previously determined to be correct.

An issue is identified and opened using Github’s issue tracker.  
Issue status is updated to “Open”.

No

Update Issue Status to “Not Enough Information”

No

Yes

Yes

No

Yes

Update issue status to “Bug Confirmed”

Update issue status to “Known Issue”

No

Is the issue fixed?

Yes

Close Issue on Github!

**Bug Tracking Procedure**

When a group member identifies an issue, he will open it in GitHub’s Issue Tracker causing the Issue to be labeled as “Open”. Once the issue is brought to the attention of the other group members through this process, the group members will begin to comment on the issue until it is resolved using the procedure shown in the graph above.

* “Not Enough Information”, if a group member identifies a bug. It is his responsibility to provide the other group members with sufficient information about the issue so that they understand the issue at hand. If insufficient information is provided, a group member may add a comment, “Not Enough Information” so that the member who created the problem is aware that he must add more information relating to the problem.
* “Known Issue”, if the issue brought up is one recognized by the group members, the status will be updated to “Known Issue”. This will occur if a similar issue has occurred previously and a group member has encountered a similar issue before. A priority will be given to the issue depending on its severity, and the model that the issue pertains to will be updated informing the appropriate group member.
  + Issue Priority
    - *Critical (\*C)*: A major bug in the program. When a critical issue is brought up, all the group members will get together to discuss a potential implementation for a solution.
    - *Moderate (\*M)*: A function or portion of the source code is not working. Group members will get together and work on the issue, not necessarily all members of the group are required.
    - *Trivial (\*T)*: Minor cosmetic issues with the user interface. Unused variables, parameters, inaccurate comments, misspelled words, these are just examples of some of the trivial issues that we predict that we may face that could be resolved by a single member of the group.
* “Bug Confirmed”, if the issue brought up is a new issue, then it will be recognized by the group members as a confirmed bug. The “Bug Confirmed” status will be given to the open issue. A priority will be given to the issue as well along with the model and group member that the issue pertains to.
* “Pending”, group members have recognized the issue and are currently working on it. Group members who are working on the issue will identify themselves in the comments section.
* “Issue Resolved”, once the issue has been resolved the status will be changed appropriately.

Once another group member has confirmed that the issue has been resolved he will close the issue on GitHub’s Issue Tracker.