**AstroNats Software Construction Strategy**

Programming language: Java and MySQL

Compiler/Editor/Debugger: Eclipse

Start with: User Interface

\*Will you start with the main menu and move to each module, then per function/class:

* Start with the Login page then to the managing of the data.
* Finish all UI’s first, then slowly build the functionalities of the program

\*How will you check compliance of your code with the coding standards defined for your team?

* Let QA check code regularly. If ever they see someone who failed to comply the coding standards, we’ll remind him/her about the standards so that he/she won’t make the same mistake.

\*What is your coding practice with regards to error handling? security (such as validating user inputs and referential integrity)?

* Practice using Exceptions on the user inputs.

\*Will programmers code in pairs ("pair programming"), or individually, or a combination of both:

* Combination of both. We’ll start by doing our own parts then asking for each others help especially when it’s time to connect the UI and the Logic part.

\*How will you use GitHub to manage version control of your code?

* For every new major progress (UI, functionality), the codes should be updated after it has been tested.

\* How will you handle revisions? What revision control tool will you use?

* GitHub’s pushing and pulling.

\* Will you allow the use of non-standard language features?

* If the problem requires the non- standard language feature, then we shall discuss before we would use the non- standard procedure.

Will programmers write test cases for their code before writing the code itself?

* Mandatory.

\*Will programmers step through their code in the debugger before they check-in their code (to the repository)?

* Yes, unless they want to let other members to debug and check their code when they are unable to do so on their own.

\*Will programmers integration-test their code before they check-in their code to the code repository?

* Yes. Better to integrate test first to see whether there would still be possible bugs in the code.

\*Will programmers review or inspect each other’s code?

* Yes. Every member can check each other’s code and make a comment on them.