Follow-Up Project Instructions

# Current State of the Project

* The GUI layer isn’t unit tested, but instead manually tested.  
  (This affects branch coverage)
* All functional requirements are met.
* Project is ready to be expanded upon.

# List of Known Issues and ToDo’s

* When you hit the Start Print button, the GUI briefly hangs up.
  + To relieve this, you can split the GUI and Start Print process into separate threads.
  + Would be best to have a load screen while Start Print is running. You do not want to allow the user to change settings in the database during the processing.
* Await for feedback from consumer.
  + The consumer being Dr. Shiakolas and his PhD students.
* If you are experiencing difficulties understanding the project, please consult the Detailed Design Document for the best documentation.

# Useful Tools for Working on This Project

* This project was built using Netbeans v7.4 in Java.
* JaCoCo was used for test coverage.
* Jaxby was used for the database.
* Project is built around the Slic3r engine.
* Open Scad is used in the project to slice the STL files and divide them into subsections.
* Repetier is a useful tool to verify your G-Code. It can take in G-Code instructions and convert them into a virtual object on screen.

# The 3D Printer

* The 3D Printer is/was maintained by a separate Senior Design Team from the Mechanical Engineering Department.
* Last known state of printer, the printer experienced trouble heating up more than one point head at once. Presumed to be an issue with the amount of power it needs.
* The printer was last located in the MARS lab in the basement of Woolf Hall on campus. Room 113