CS/EE/CpE/Biom 481 – A4 – System Manual

In the previous semester (480), your group prepared a Design Proposal which included all aspects of your project as you intended to implement. However, during the course of this semester you may have changed your implementation plan due to a number of circumstances such as your inability to procure licenses or proposed parts and subsystems. This report is intended to record the changes you made as well as document the system – **as implemented**.
This report should be comprehensive enough to enable a future senior design group to continue the project where you left off. As a minimum, your report should include the following:
1. **Title Page**
2. **Abstract of Project**
3. **Table of Contents with page numbers**

4. **(5%) Vision Statement** - Describe in this section, your original vision and the vision as represented by your final implementation.

5. **(5%) Current Status of the project** as demonstrated at the end of the second semester. Show this as a table.

Req#	Requirement Description	Completion Status Yes/No/ Partial	Is it Demonstrable Yes/No	Comment
1.				
2.				
3.				

6. **(15%) Documentation of Testing** – In this section describe each test you conducted and the result. This should be sufficiently detailed so that it can be easily duplicated.

7. **(65%) System Documentation**

   In this section, you should provide detailed documentation of the system in its final form at the end of the semester. It should include:

   (a) **(30%) Architecture Diagram** at the lowest module level clearly showing what is created by your group and what is imported. Describe briefly each module emphasizing what your contributions are. You should also show in detail any circuit diagrams or PC Board Layouts you created. This section should serve as the complete documentation of the final system design and show your "design intent", where it is not self-evident.

(b) **(10%) User Interface** – Show any GUI you built as well as other ways of interacting with the system such as speaking into a microphone.

(c) **(10%) Setup Manual** – Provide complete details necessary to setup your system in a real-world setting. You should also describe any diagnostic tests you may perform to ensure the system is setup correctly.

(d) **(15%) User Manual and Maintenance Manual** – Provide step-by-step instructions on how to use the system and maintain it. For example, if the system needs to be calibrated before use or if it needs to be serviced periodically, that information should be provided. This should be written so that the end-user can understand it and use it without any help from the developers.

8. **(8%) Reflections and Instructions to Future Developers** - In this section, you should provide details of your experience with a focus on mistakes you made or unexpected discoveries that influenced your project. This should also provide detailed guidance to future developers so that they can benefit from your experience and avoid any mistakes you may have made.

9. **(2%) Directory of the Project Archive** – You will be provided a link to a Google Drive, where you can archive source code, all the documents you created both in 480 and 481 including your poster, brochure, final presentation, and the demonstration video. In this section provide an index to all the items in the archive.

Please note that the example document provided does not follow this format. However, it may contain examples of all the information requested in this assignment. If any item is missing, you need to create it using the directions provided here.