**Requirement Analysis**

**Functional Requirements**

1. The PRS system shall allow APP authorized inventory staff **create new part definitions**.
2. The PRS system shall allow APP authorized inventory staff **maintain attributes for all part definitions**.
3. The PRS system shall allow APP authorized warehouse staff **create a definition for a new customer**.
4. The PRS system shall allow APP authorized warehouse staff **update customer** information.
5. The PRS system shall allow APP authorized warehouse staff **receive aircraft from APP customers**.
6. The PRS system shall allow APP inspectors, mechanics, and warehouse managers **update aircraft attributes**.
7. The PRS system shall allow APP inspectors **receive off-unit parts** from customer aircraft.
8. The PRS system shall allow the APP inventory staff **issue on unit** parts to replace the removed off-unit on the customer’s aircraft.
9. The PRS system shall allow APP inspectors receive off units and **match on unit replacements**.
10. The PRS system shall allow APP inspectors issue a **repair order of an** **off-unit**.
11. The PRS system shall allow APP inspector **inspect repaired off-units.**
12. The PRS system shall allow APP warehouse manager produce an **open replacement report**.
13. The PRS system shall allow the APP warehouse staff **record shipment** of newly received aircraft.
14. The PRS system shall allow the APP inspector **record shipment** of RO unit to vendor.
15. The PRS system shall allow the APP inventory staff **create vendor**.
16. The PRS system shall allow the APP inventory staff **update vendor**.

**Nonfunctional Requirements**

The PRS system shall be written in JAVA.

The PRS system functions shall be fully secured and only have authorized personal access them.