# Functional Specification

The main features and functionalities of the application to be developed are listed below:

|  |
| --- |
| **Operation Module (Supervisor)** |
| - Client / Supplier creation |
| - Manage item master database   * Item no. * Item description * Supplier/client * Item type * Minimum quantity required * Minimum quantity notification email id (when the stock quantity of items falls below the minimum set quantity, an email notification will be sent to the email id provided) |
| - Source file upload with the following options   * Manual / scheduled file upload (XML, CSV, etc.) * 3rd party Integration (API, file transfer etc.) * File format auto check |
| - Order submission to production   * Select single record * Create batches of records * Release to production orders pool |
| **Production Module (Operator)** |
| - View the orders pool (new orders / orders requested for re-print) |
| - Correct system errors Or send the order back to supervisor for review |
| - Create material request for (ordered quantity) with an option to update the quantity as (requested quantity) |
| - After printing, update production log:   * Indicate uncompleted jobs * Enter Machine readings (date, time, machine count, etc.) * Attach the different automated QC reports * In-app scanning functionality for damaged items * Enter the manual QC result of the checked samples |
| - Indicate the damaged items to be returned to store keeper |
| - Indicate the un used items to be returned to store keeper (after the order gets shipped) |
| **Inventory Management (Store Keeper)** |
| - Receive items and update the inventory accordingly:   * Received from client / supplier (item number, GRN and quantity) * Received return materials form Operator & QC |
| - Review the material requests raised by operators |
| - Release the requested materials by printing the material release form |
| - In-app scanning functionality for the signed material release form and update the inventory accordingly |
| **Quality Check (QC)** |
| - View the available printed orders for quality check |
| - Indicate the number of the samples checked |
| - Indicate the defective items |
| - Add comment\ reason |
| - Update the QC report (QC report will be reflected on the production order and will be available on the customer interface)  - QC will upload a scanned image for the defective items (scanning to be done through the in-app scanning functionality) which will be considered as a new order and will be available for operation supervisor to process |
| **Shipping** |
| - View ready to dispatch production orders |
| - Consolidate the items to be delivered and create shipment reference number |
| - Select the delivery type for each shipment reference number |
| - Generate Airway bill number using courier API (DHL\ ARAMEX integration) |
| - Generate 3rd party manual shipment creation file |
| - Import the airway bill number from an output file generated by 3rd party shipping companies |
| - Ability to scan and received returned shipments |
| **Customer Portal** |
| - View the status of the order (Released, Printed, Ready to dispatch, Shipped) |
| - View production log |
| - View the Airway Bill no. |
| - View the link of the respective courier’s shipment tracking portal |

