## Project Overview

A leading Supply chain Management Organization wants to automate the return orders, by classifying them to repair or replacement. Repair is for all main or integral part of their product. Replacement is for accessories.

## Scope

Below are the modules that needs to be developed part of the Project:

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| **Req. No.** | **Req. Name** | **Req. Description** |
| REQ\_01 | Component processing | Component processing Module is a Middleware Microservice that performs following operations:   * Determine if the request is for Repair or Replacement * Determine the repair or replacement cost along with the consideration if it’s a priority request or not. Determine the date of process completion * Invoke Packaging and Delivery service to determine the cost and date of delivery * Return the Processing response detail object * Cancel a processing request * Track a request using a request id |
| REQ\_02 | Packaging and Delivery module | Packaging and Delivery Module is a Middleware Microservice that performs the following operations:   * Determine the packaging and delivery charge for the item based on a pre-defined logic * Provide the expected date of delivery |
| REQ\_03 | Payment module | Payment Module is a Middleware Microservice that performs the following operations:   * Gets the processing charge and the Credit card detail as input. Deducts the amount and provides the result message if the deduction succeeded or not * Get the processing charges and a credit card as input and reverses the payment on credit card. Returns the result message if reversal is successful or not |
| REQ\_04 | Authorization service | This micro service will be responsible for performing the following operations.   * Allow an anonymous user to login using credentials * Allow a logged in user to update his/her password. |
| REQ\_05 | Return order portal | A Web Portal that allows a member to Login and allows to do following operations:   * Login * Provide detail for Return order * View the processing detail * Confirm processing * Track a request * Cancel a request * Change password |

