

TEESSIDE UNIVERSITY  
SCHOOL OF COMPUTING, MEDIA AND THE ARTS  
**SOFTWARE ARCHITECTURE (COM3041-N) WORK PACKAGE SPECIFICATION**

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Component Name (from Diagrams)	System Requirements (from Requirement Analysis)	Key Features (from Requirement Analysis)	Interfaces to Other Components (from Diagrams)
Warehouse Component	<p>It is required that the warehouse component does the following:</p> <ul style="list-style-type: none"><li>• Allow public, customers and staff users to retrieve a list of all items available for purchase regardless of stock level.</li><li>• Customers and staff should be able to see the stock levels of each item.</li><li>• Customers should be able to purchase items from the warehouse using this component.</li><li>• Staff should be able to edit prices of existing items.</li><li>• When purchasing stock from third-party suppliers, the warehouse component should allow the staff to modify the stock levels of items (automatic).</li><li>• Staff should have the ability to view the price history of all items found within the warehouse database.</li></ul>	<p>In order to fulfil the system requirements, the following features will be implemented:</p> <ul style="list-style-type: none"><li>• Retrieve a list of all items that can be sold from the warehouse database and their stock status (Customer and Public only).</li><li>• Retrieve a list of all items that can be sold from the warehouse database and their exact stock level (Staff only).</li><li>• Retrieve a list of historical re-sell prices of items from the warehouse database. (Staff only)</li><li>• Edit the current price of a selected item. (Staff only)</li><li>• Add stock to the warehouse when purchasing from third-party suppliers (Staff only).</li><li>• Remove stock from warehouse when customer submits an order and it has</li></ul>	<p>This component will interact with both the staff web application and the customer/public web application. The staff application requires this component in order to view stock levels or items, add to stock levels (purchasing from third-party suppliers), edit prices of items, view historical prices of items and potentially to add, edit and delete items from the warehouse (not required as part of brief). The customer application requires this component in order for customers to be able to view all items available for purchase. If a customer purchases an item, the component is used to update the stock levels of the purchased item in the warehouse database.</p>

		been successfully processed (Customer only).	
Staff Profile service	Looking into the encryption of staff login credentials. When sending the credentials and the way they are stored.	<ul style="list-style-type: none"> <li>• Returns staff data. <ul style="list-style-type: none"> <li>○ Name</li> <li>○ Permissions</li> </ul> </li> <li>• Allow for changes to the permission.</li> <li>• Request if login in info is valid.</li> </ul>	<ul style="list-style-type: none"> <li>• Login app</li> <li>• Staff web app</li> <li>• Management web app</li> </ul>

Note: Each component can address a number of system requirements and/or key features.