

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) |
|-----------------------------------|---|--|--|
| Customer/Public Application | <ul style="list-style-type: none"> -Creating the application that consumes all of the components the customers/public will interact with. -Show profile of logged in user -Allow user to edit their profile -Allow customers and public to view stock in the warehouse -Allow customers to purchase from the warehouse -View their order history -View the status of each order -View their message history(including invoices) -Allow a user to login | <ul style="list-style-type: none"> -Send HTTP request to profile component to show a logged in customer's profile (and allow them to edit their details) via JSON response. - Send HTTP request to warehouse component to show a list of stock regardless of stock level to customers and public via JSON response. -Send HTTP request to the purchasing service to purchase an item. JSON response will verify stock change. -Send HTTP request to purchasing service to view order history and status of each order via JSON response. -Send HTTP request to message component to get a list of all messages received (including invoices) via JSON response. -Send HTTP request to profile component to login securely with their credentials | The Customer Application will interact with the Customer Profile Component, the Warehouse Component, the Purchasing Component and Messaging Component. |
| Messaging component | <ul style="list-style-type: none"> -Staff members should be able to send messages to one or more customers -Staff members should be able to view message history of any customer | <ul style="list-style-type: none"> -Handles HTTP request from staff application to view message history of a customer. Returns with JSON. | Customers will interact with this to view their message history via the Customer Application. Staff will also interact with this component via the staff application |

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| | -Customers should be able to view their message history (including invoices) | - Handles HTTP request from staff application to send message(s) to one or more customers and forwards them to the customer application when requested via JSON. May also return to the staff app via JSON with a confirmation message. -Handles HTTP request from customer application to allow customers to view all previous messages sent to them (invoices included) via JSON response. | to view the message history of customers and send messages to one or more customers. |
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Note: Each component can address a number of system requirements and/or key features.