Use case for assigning components to a product

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| Actions performed by the actor | Responses from the system |
| 1. User issues a request to assign components to a product. |  |
|  | 1. The system asks for the component id and quantity. |
| 1. User enters component ID and quantity. |  |
|  | 1. If the component ID is valid and rule 1 is met, the system removes the quantity of components and displays the updated value. Otherwise it displays an appropriate error message. The system then asks if the user would like to assign any more components to products. |
| 1. The user answers in the affirmative or in the negative. |  |
|  | 1. If the answer is in the affirmative, the system goes to step 2., otherwise, it exits to main menu. |

Use case for placing an order

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| Actions performed by the actor | Responses from the system |
| 1. User issues a request to order components. |  |
|  | 1. The system asks for the component id, quantity, and supplier id. |
| 1. The user inputs the component id, quantity, and supplier id. |  |
|  | 1. If component id and supplier id are valid and rule 1 is met, the system generates a unique order number and displays the order details. Otherwise, it displays an appropriate error message. The system then asks if the user would like to order more components. |
| 1. The user replies in the affirmative or in the negative. |  |
|  | 1. If the user replies in the affirmative, the system goes to step 2. Otherwise, it exits to main menu. |

Use case for fulfilling an order

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| Actions performed by the actor | Responses from the system |
| 1. User issues a request to mark order as fulfilled. |  |
|  | 1. The system asks for the information of the outstanding order. |
| 1. User provides the outstanding order information. |  |
|  | 1. If the provided information is for an outstanding order, the system updates the stock of the component in the order and the total quantity from the supplier in the order. The system then displays the information for the component and supplier. The order is marked as fulfilled. If the request is invalid, an appropriate error message is displayed. The system then asks the user if any more orders should be fulfilled. |
| 1. User replies in affirmative or negative. |  |
|  | 1. If user replies in affirmative, system goes to step 2. Otherwise, it exits to main menu. |

Rules for the system

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| Rule number | Rule |
| Rule 1 | Product assignments and component orders require a minimum of one component. |