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Homework week 2

Requirement: Place order specification

# Main flow of events

* The use case starts when the software displays the list of selected products (the cart), and users **choose placing order**. The software **checks whether the cart is valid** or not. Note that the cart is valid if and only the quantity of each product is not larger than the corresponding quantity in the inventory.
* The AIMS Software **prompts** the user for **delivery information** and instructions (if need be). The user will **fill in the information** and then this information will **be checked** by the AIMS. The software also **checks whether the order is rush order** or not.
* Software **calculates the shipping fee** and then **displays** the invoice to the customer.
* The user **confirms** the invoice, and then **is prompted to the order payment** step.
* The user **provides a payment method**, then **provides transaction** information. The software then **checks the respond time** exceed 02 seconds or not
* The software **displays the transaction summary**, **records the transaction**, and **sends email to the user to inform** the invoice and transaction info.
* The administrator **accepts the order,** and **finishes** the place order process.

# Regular variants

* At the step of filling delivery information, the user **chooses to place a rush order**.
* The user will **fill in the information** and then this information will **be checked** by the AIMS. The software also **checks whether the order is rush order** or not.
* The software **checks the supportability** of the required media and shipping address.
* The software displays the screen of rush order, then the user updates the rush order info.
* The software **update formulation of shipping fee calculating** and continues with the next steps.

# Odd cases

* The user **goes back to previous steps** during the order placement process, the software remove current stored data about this order.

# Exceptional flows

* The cart is not valid, the software prompts the users to update the cart.
* The user leaves some required field empty in delivery information form, the software prompts user to fill the needed fields.
* The time that user providing the transaction information exceeds 2 seconds, the software prompts user to do this step again and keep the previous information of the order and delivery options.
* The shipping address or media of placed rush order is not supported, the software prompts the user to edit information.
* The software automatically rejects order because of lacking products in the inventory.
* The administrator rejects the order.