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| **Name** | Manage Products | |
| **Summary** | Manager manage products in the system, including adding new products, updating product information, or removing existing products. | |
| **Priority** | high | |
| **Pre-Condition** | logged into the system with Manager credential | |
| **Post-condition** | The product information is successfully added, updated, or removed from the system and manage. | |
| **Primary Actor** | Manager | |
| **Main Scenario** | **Step** | **Action** |
|  | **1.** | Manager Login to the System with User credentials |
| **2.** | System displays the list of all products along with options (add, edit, or delete products) |
| **3.** | manager clicks on the "Add Product" button to add a new product |
| **4.** | System displays a form for the Manager to input product details (e.g., name, price, description, category, image) |
| **5.** | manager clicks on the "Edit Product" button to Edit a product |
| **6.** | System displays a form for the Manager to update product details (e.g., name, price, description, category, image) |
| **7.** | manager clicks on the "Delete Product" button to Delete the product. |
|  | **8.** | Manager fills in or updates or delete the product information and clicks on the "Save" button |
|  | **9.** | System saves the product information to the database and displays a confirmation message |
|  | **10.** | Manager Double check All product informations are correct |
| **Extension** | **Step** | Branching Actions |
|  | 4.a | If the image uploaded for the product is in an invalid format or exceeds size limits, the system displays an error message asking the administrator to upload a valid image |
| 4.b | If any of the fields contain invalid or missing data (e.g., missing price, negative stock quantity), the system highlights the errors and prompts the administrator to correct them |
| 6.a | If the image uploaded for the product is in an invalid format or exceeds size limits, the system displays an error message asking the administrator to upload a valid image |
| 6.b | If any of the fields contain invalid or missing data (e.g., missing price, negative stock quantity), the system highlights the errors and prompts the administrator to correct them” |
|  | 9.a | If the system encounters a problem saving the product (e.g., due to server issues) displays an error message. |