1 Use Case: Manage Product Details

Product in this scenario represents all the items that the shop sells.

1. Use case description

- Actors: Admin
- Description: The Admin adds, updates, or deletes product details
- Precondition: Admin must be logged in and have capabilities to manage product data.
- postcondition: product details are updated in the system accordingly.
- Success Guarantee: Admin is able to CRUD product details successfully
- Main flow:
    1. Admin navigates to the product details section
    2. Admin views a list of products
    3. Admin can add products, update/delete existing products

1.1 Use case scenario on Adding a new product

Steps performed:

1. Admin navigates to the product details section
2. Admin clicks on the button to add product details
3. A modal presents a form to add product details
4. Admin fills in the form with the correct details
5. Admin clicks on submit
6. If errors? the error is returned together with an error message
7. If no errors, success icon should be showed and the modal with the form closed.

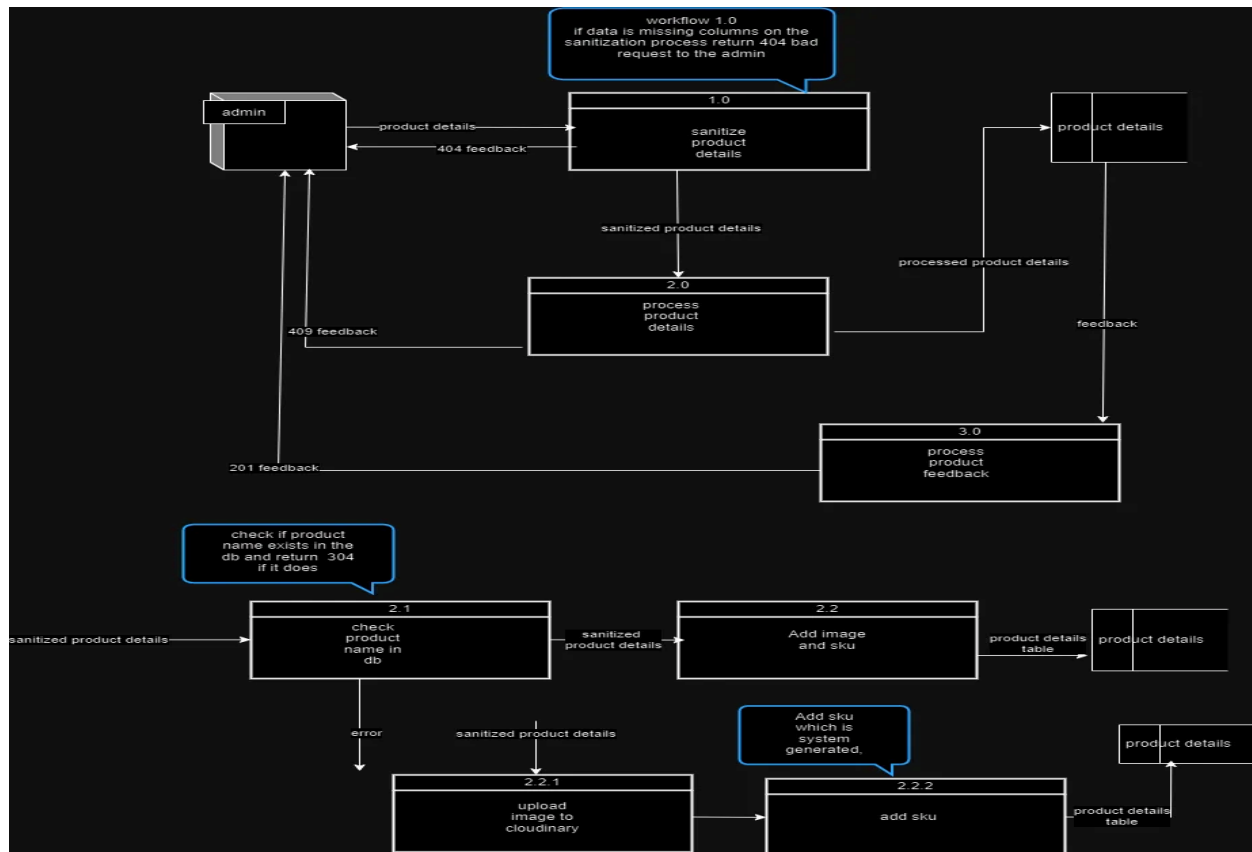## 1.2 Use case scenario on Editing a product detail

1. Admin navigates to the product details section
2. Each product has got a Edit button
3. Admin clicks on the edit button
4. Admin is directed to a page / a modal shows up with a form and all details of that product.
5. Admin updates what is necessary
6. Admin submits the forms.
7. If the name is not unique or any other error exists, error is shown
8. Admin rectifies the error and resubmits the form
9. If no error, success icon should be shown.

10. That product name should be updated everywhere.

1.3 Use case scenario on Deleting a product

1. Admin navigates to the product details section
2. Each product has got a Delete button
3. Admin clicks on the delete button
4. The product is deleted and removed from view

2 Data flows

2.1 Product details data flow
1. Name: Product details
2. Description: Contains the details of the product from the Admin and is used to create a new record of the product in the system.
3. Source: Admin
4. Destination: Sanitize produce details process

5. Comments:

2.1.1   Data structure

Element name	Description	Length	Base /Derived	Default value	Validation criteria		
					Upper limit	Lower limit	comments
Product name	This is the name of the product	6	Base	null	Char =40	Char >2	
productCategory	Each product will belong to a certain category	derived	Derived	Not default	Derived	derived	
Product description	Detailed description of the product (e.g., grade, type).	Varchar (255)	Base	Null	Char = 255	Char >= 10	
productImage URL	url to an image of the product	Varchar(50)	Derived	null	Char<= 50	Char >=10	

2.2   processed data flow
- ProductName
- Sku
- ProductCategory
- Product Description
- ProductImaeURL

2.3   feedback data flow

	Description	Length	Base /Derived	Default value	Validation criteria		
					Upper limit	Lower limit	comments
ProductID	The unique id for each record	Char > 10	Derived	Cannot be null	Unknown	unknown	Will be derived from db
Product name	This is the name of the product	6	Base	null	Char =40	Char >2	

Sku	A unique identifier or code for the product (used for tracking and inventory).	unknown	Derived	Cannot be null	Char <=15	Char > 5	Will be derived from the db or system
DateAdded	Date the product was added to the system	Date-length	derived	Cannot be null	unknown	Unknown	MM/DD/YY
DateUpdated	Last update date for product information	Date-length	derived	Cannot be null	unknown	unknown	MM/DD/YY
productCategory	Each product will belong to a certain category	derived	Derived	Not default	Derived	derived	
Product description	Detailed description of the product (e.g., grade, type).	Varchar (255)	Base	Null	Char = 255	Char >= 10	
productImage URL	url to an image of the product	Varchar(50)	Derived	null	Char<= 50	Char >=10	