Use case Diagram

Cosmetic Web Application

Customer

Admin

View Products on Homepage

<<include>>

Paginate Products
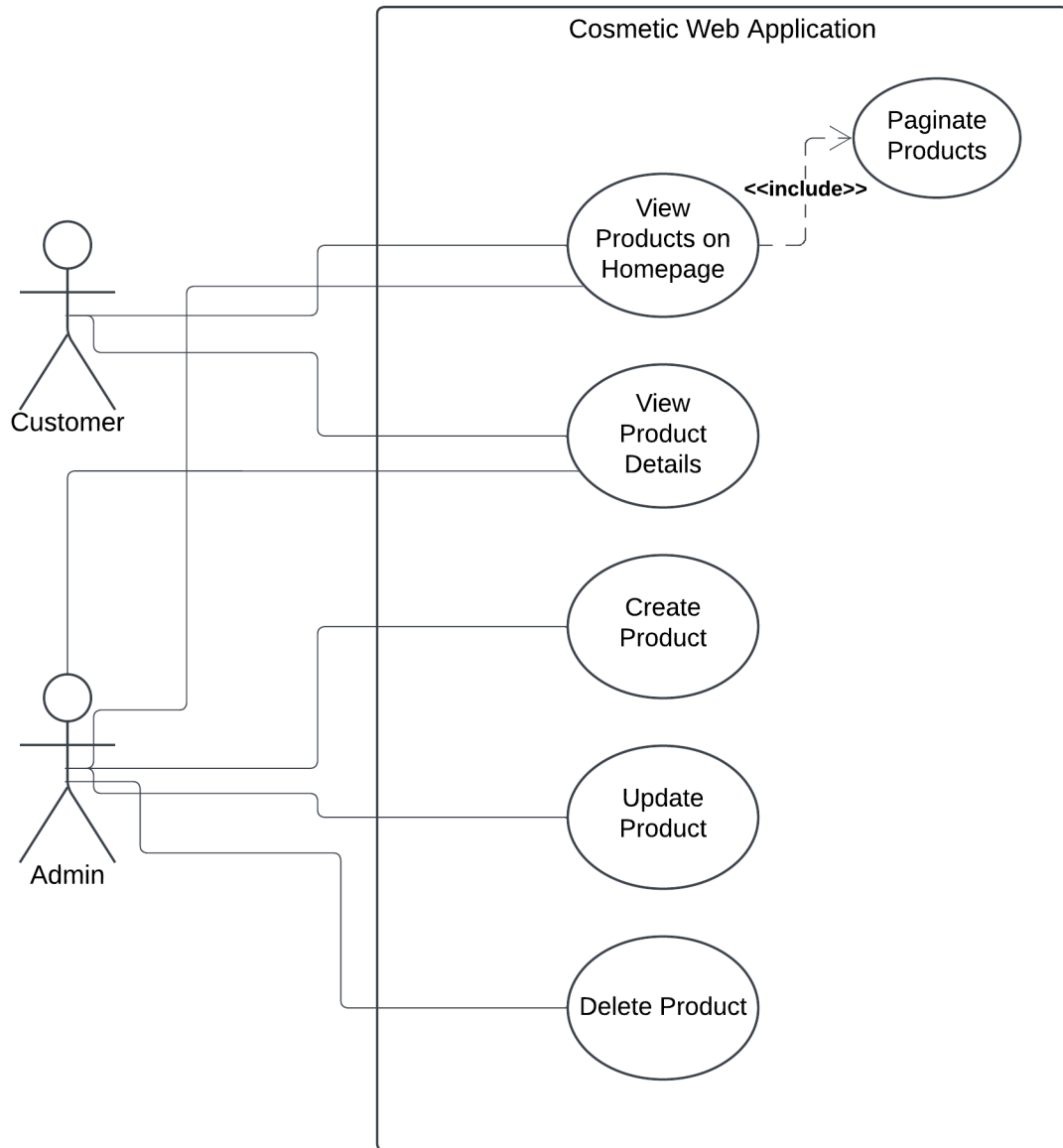
View Product Details

Create Product

Update Product

Delete Product

Functional Requirement

1. Display Products on Homepage with Pagination
2. Display Product Details on a new page
3. Product Management using RESTful APIs
   a. Create Product
   b. Update Product
   c. Delete Product

Non-Functional Requirement

1. Cross-Device Compatibility
2. Cross-Browser Compatibility
3. Performance
   a. Ensure quick response times for REST APIs
   b. Ensure quick web page loads
4. Security
   a. Protect endpoints with proper authentication and authorization
   b. Ensure secure data transmission using HTTPS
5. Maintainability
   a. Code for easy updates
   b. Easy for troubleshooting
6. Scalability
   a. Use pagination when receiving large scales of data using in endpoints

ER Diagram

Product

PK	ProductID
	Name
	ImageURL
	Price
FK	CategoryID
	Description
	Usage
	In_Stock

M ———— Has ———— 1

Category

PK	CategoryID
	Name

Manage/ View

User

PK	ID
	username
	password
	email