Customer : Producst Managment Activity UML Diagram

Start

↓

User Request

↓

Route Match?

— **GET : /products** → **getAllProducts controller**

— **GET : /products/:id** → **getProductDetails controller**

getAllProducts controller

↓

Product.findAll Model

↓

Query MongoDB find all products

↓

Map documents to product instances

↓

Render all-products View

↓

getProductDetails controller

↓

valid MongoDB id?

— **No** →

— **Yes** ↓

Product.findById Model

↓

Query MongoDB find by _id

↓

product exists?

— **No** → **Throw 404 error**

— **Yes** → **create Product instance**

```
Display Products
grid

Error handler
Middleware

Render product-
details view

Send Response
to Client

Display product info:
image, price, cart btn

End
```