PYTHON PROJECT

*TEAM NAME: PACERS*

TEAM MEMBERS:

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**Code:**

class Product:

def \_\_init\_\_(self, id, name, price, quantity):

self.id = id

self.name = name

self.price = price

self.quantity = quantity

def \_\_str\_\_(self):

return f"{self.id}, {self.name}, {self.price}, {self.quantity}"

class EcommerceSystem:

def \_\_init\_\_(self):

self.products = []

self.load\_products()

def load\_products(self):

try:

with open("products.txt", "r") as file:

for line in file:

id, name, price, quantity = line.strip().split(", ")

product = Product(id, name, float(price), int(quantity))

self.products.append(product)

except FileNotFoundError:

print("products.txt not found, creating a new file")

def save\_products(self):

with open("products.txt", "w") as file:

for product in self.products:

file.write(str(product) + "\n")

def add\_product(self, product):

self.products.append(product)

self.save\_products()

def display\_products(self):

for product in self.products:

print(product)

def search\_product(self, id):

for product in self.products:

if product.id == id:

return product

return None

def delete\_product(self, id):

product = self.search\_product(id)

if product:

self.products.remove(product)

self.save\_products()

return True

return False

def update\_product(self, id, name=None, price=None, quantity=None):

product = self.search\_product(id)

if product:

if name:

product.name = name

if price:

product.price = price

if quantity:

product.quantity = quantity

self.save\_products()

return True

return False

if \_\_name\_\_ == "\_\_main\_\_":

ecommerce\_system = EcommerceSystem()

product = Product("P1167", "Cinthol", 45, 500)

ecommerce\_system.add\_product(product)

ecommerce\_system.display\_products()

print("Searching for product P1167:", ecommerce\_system.search\_product("P1167"))

print("Deleting product P1167:", ecommerce\_system.delete\_product("P1167"))

ecommerce\_system.display\_products()

product = Product("P3160", "GlowAndHandsome", 50, 200)

ecommerce\_system.add\_product(product)

print("Updating product P3160:", ecommerce\_system.update\_product("P3160", name="updated product 2", price=8.99))

ecommerce\_system.display\_products

**Output:**

Text

Description automatically generated

