CARDANO CART UML

# USER

## STATE

* id: int
* username: str
* email: str
* password: str
* first\_name: str
* last\_name: str
* address: str
* phone\_number: str
* role: str(admin, customer)
* created\_at: datetime
* updated\_at: datetime

## BEHAVIOR

* register()
* login()
* logout()
* update\_profile()
* delete\_account()
* reset\_password()

# PRODUCT

## STATE

* id: int
* seller\_id: int
* name: str
* description: str
* price: float
* stock: int
* category: str
* images: list[str]
* created\_at: datetime
* updated\_at: datetime

## BEHAVIOR

* add\_product()
* update\_product()
* delete\_product()
* view\_product()

# ORDER

## STATE

* id: int
* buyer\_id: int
* order\_date: datetime
* shipping\_address: str
* total\_amount: float
* status: str (pending, shipped, delivered, canceled)
* tracking\_number: str
* created\_at: datetime
* updated\_at: datetime

## BEHAVIOR

* create\_order()
* update\_order()
* cancel\_order()
* track\_order()
* view\_order\_history()

# CART

## STATE

* id: int
* user\_id: int
* items: list[tuple(Product, int)]
* total\_price: float
* created\_at: datetime
* updated\_at: datetime

## BEHAVIOR

* add\_item()
* remove\_item()
* update\_quantity()
* view\_cart()
* checkout()

# PAYMENT

## STATE

* id: int
* order\_id: int
* payment\_method: str(crypto)
* amount: float
* payment\_status: str (pending, completed, failed)
* payment\_date: datetime

## BEHAVIOR

* process\_payment()
* refund()
* view\_payment\_history()
* generate\_invoice()

# REVIEW

## STATE

* id: int
* user\_id: int
* product\_id: int
* rating: int (1-5)
* comment: str
* created\_at: datetime
* updated\_at: datetime

## BEHAVIOR

* add\_review()
* update\_review()
* delete\_review()
* view\_reviews()