Healthcare - DFD (Context + Level 1)

User / Patient

Payment Gateway

Core Process

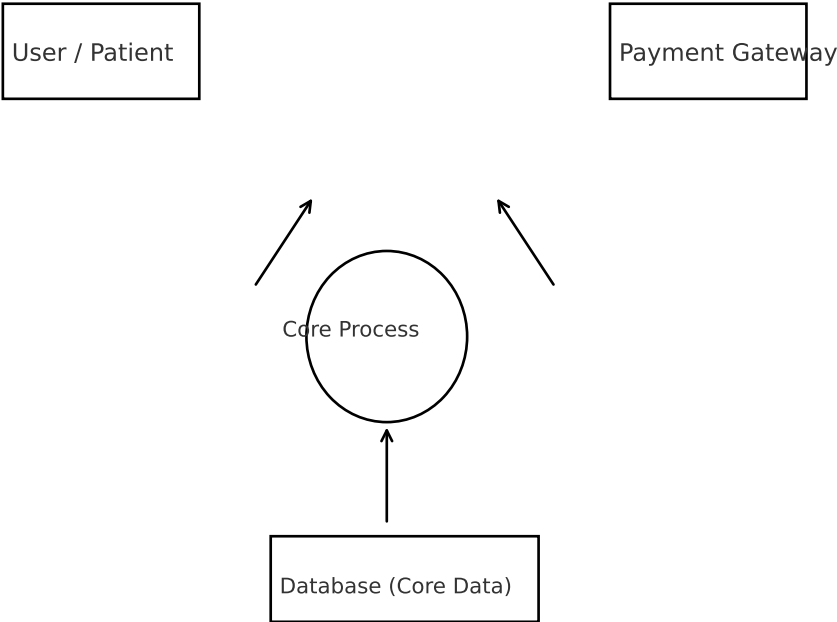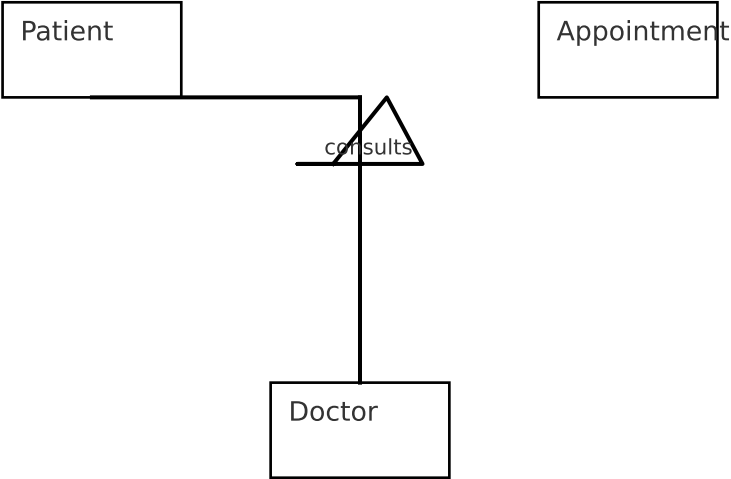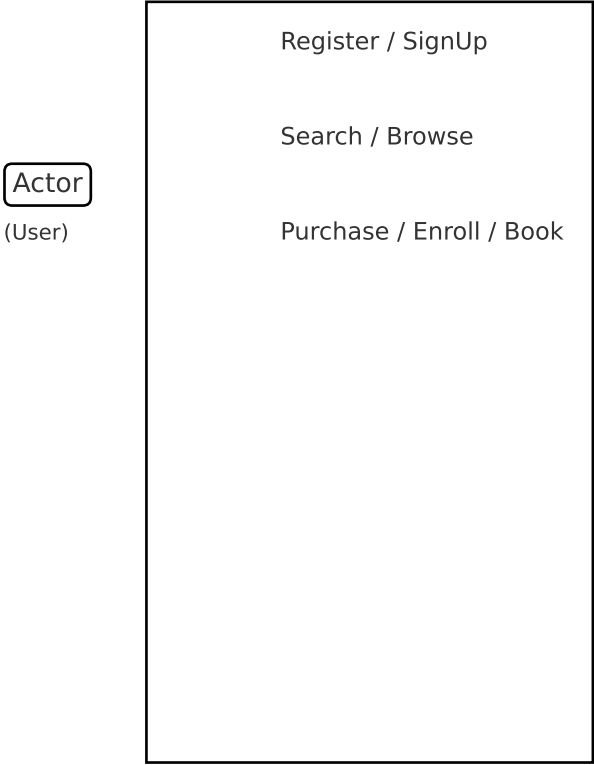Database (Core Data)

DFD for Healthcare: show data flows between external entities, processes, and data stores.

Healthcare - ER Diagram (Core Entities)
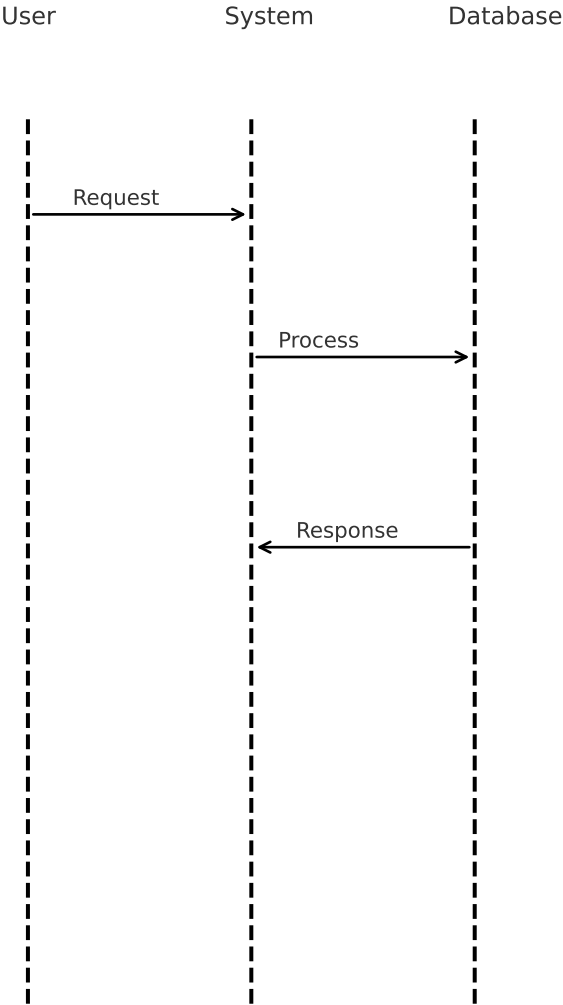
Patient

Appointment

consults

Doctor

ER Diagram for Healthcare: include attributes and cardinalities in final version.

Healthcare - Usecase Diagram (Top Usecases)

Register / SignUp
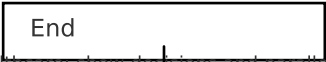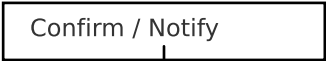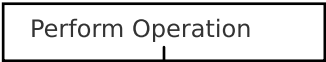
Search / Browse

Purchase / Enroll / Book

Actor

(User)

Usecase diagram for Healthcare: actors (user, admin, external services) and major usecases.

Healthcare - Sequence Diagram (Example Flow)

User   System   Database

Request →

Process →

← Response

Sequence diagram for Healthcare: show key messages and order of interactions.

Healthcare - Activity Diagram (Core Flow)

Start

Start

Authenticate / Validate

Perform Operation

Confirm / Notify

End

Activity diagram for Healthcare. show decisions and parallel flows in detailed version.

End

Healthcare - Class Diagram (Core Classes)

User

id\nname\nemail

login()\nregister()

Service

id\ntitle\nprice

getDetails()

Booking

id\nuserId\nstatus

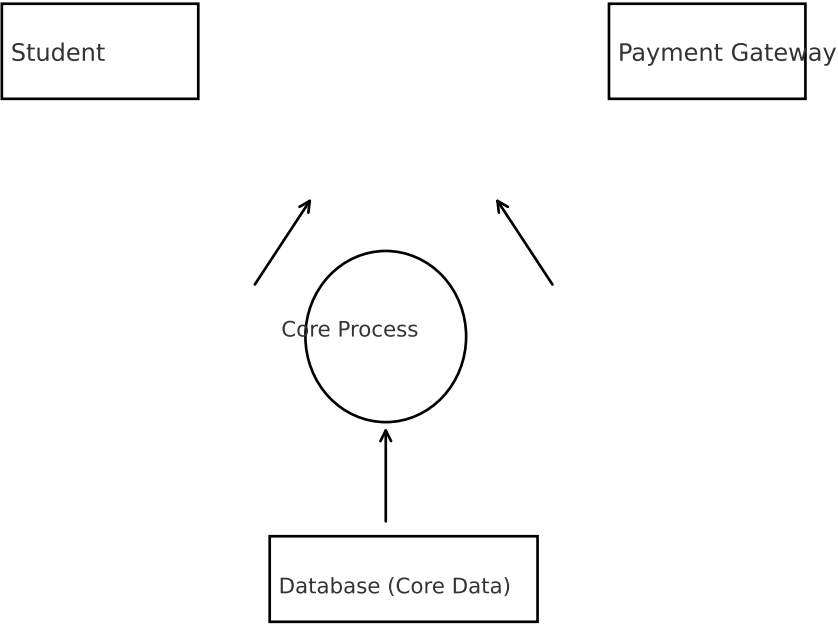create()\ncancel()

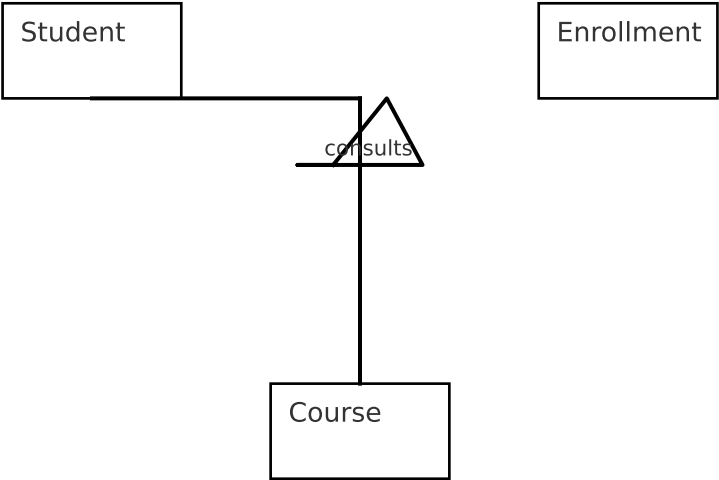Class diagram for Healthcare: refine with associations, multiplicities and interfaces.

Education - DFD (Context + Level 1)

Student

Payment Gateway

Core Process

Database (Core Data)
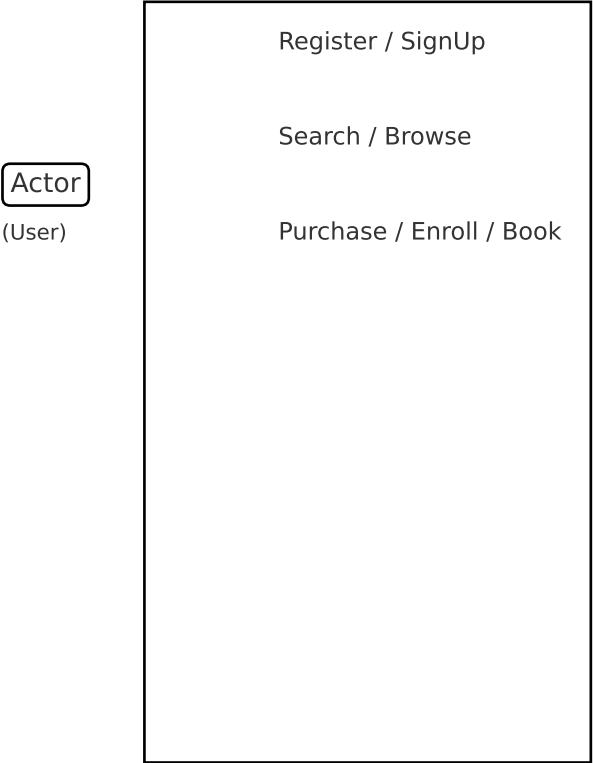
DFD for Education: show data flows between external entities, processes, and data stores.

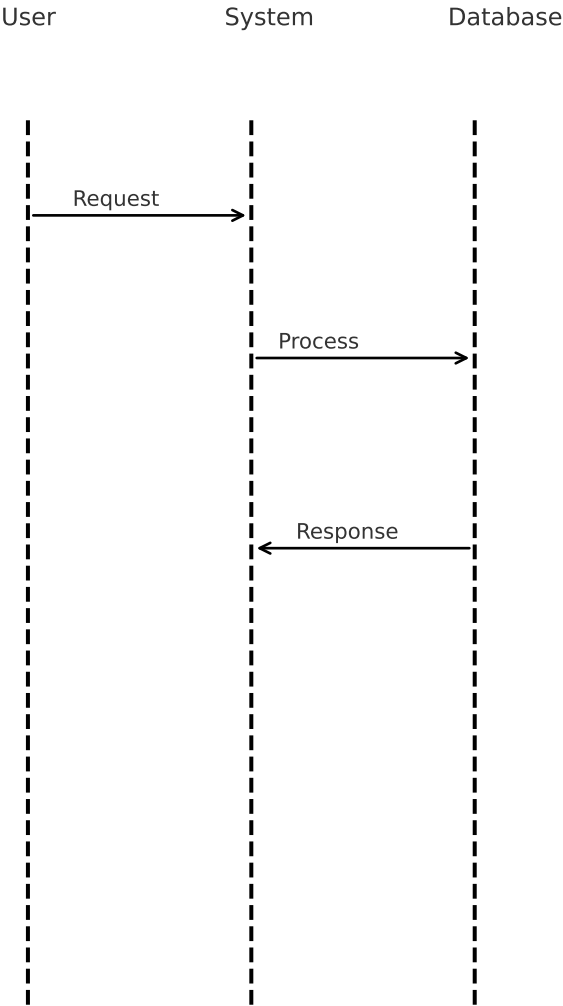# Education - ER Diagram (Core Entities)

Student

Enrollment

consults

Course

ER Diagram for Education: include attributes and cardinalities in final version.

Education - Usecase Diagram (Top Usecases)

Register / SignUp

Search / Browse

Purchase / Enroll / Book

Actor

(User)
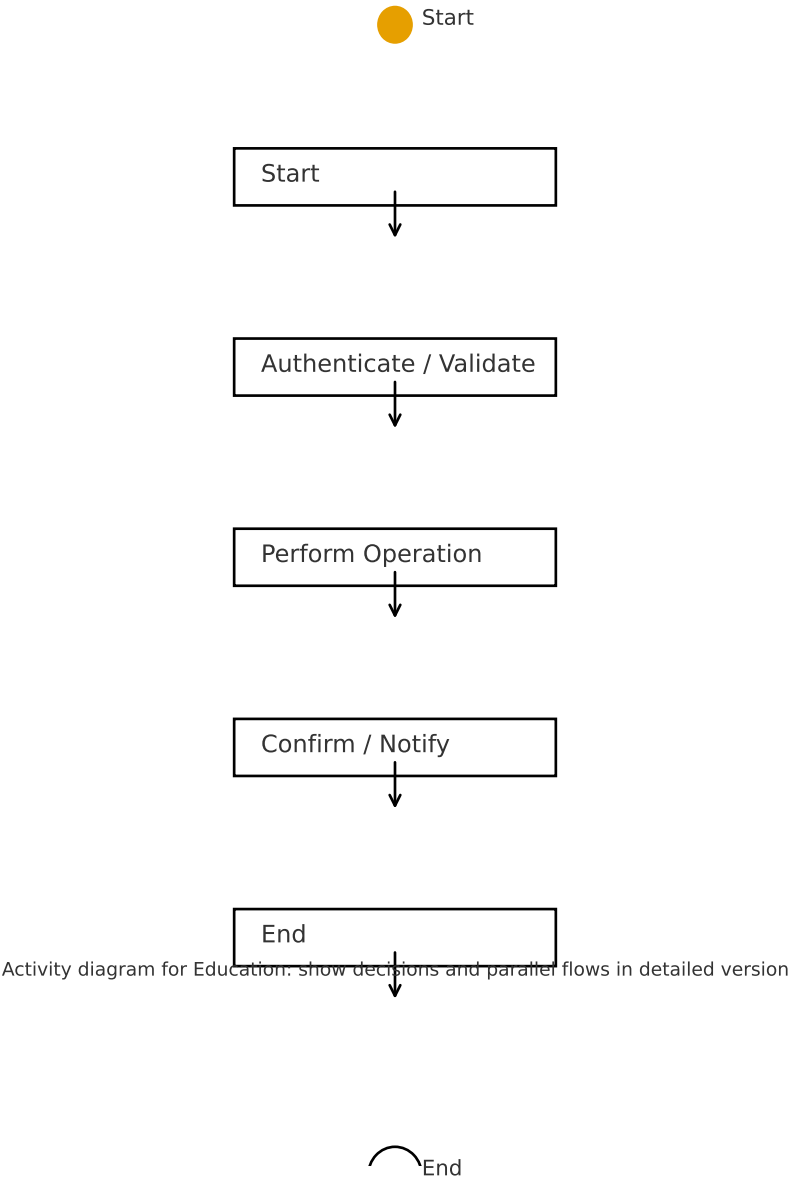
Usecase diagram for Education: actors (user, admin, external services) and major usecases.

Education - Sequence Diagram (Example Flow)

User　　　　　System　　　　　Database

Request →

Process →

← Response

Sequence diagram for Education: show key messages and order of interactions.

Education - Activity Diagram (Core Flow)

Start

Start

Authenticate / Validate

Perform Operation

Confirm / Notify

End

Activity diagram for Education: show decisions and parallel flows in detailed version.

End

Education - Class Diagram (Core Classes)

User

id\nname\nemail

login()\nregister()

Course

id\ntitle\nprice

getDetails()

Enrollment

id\nuserId\nstatus

create()\ncancel()
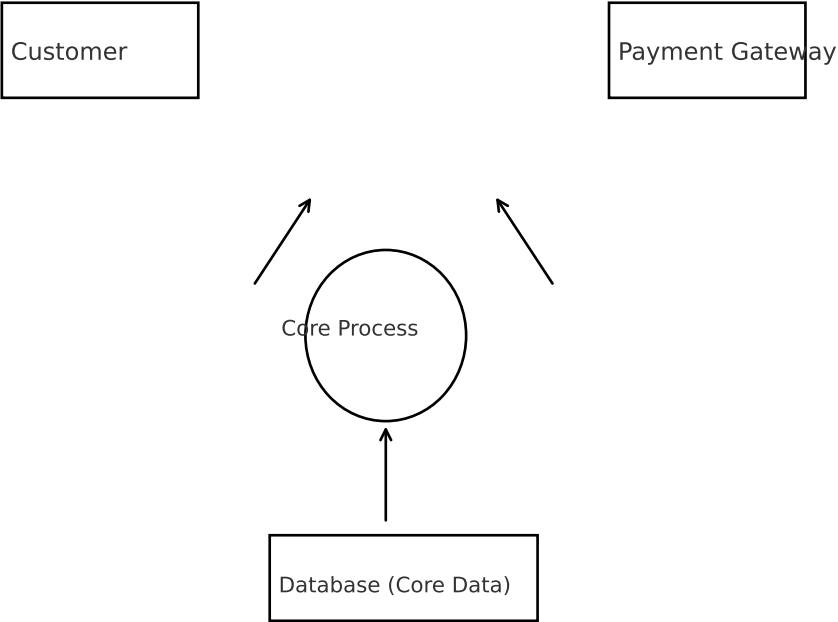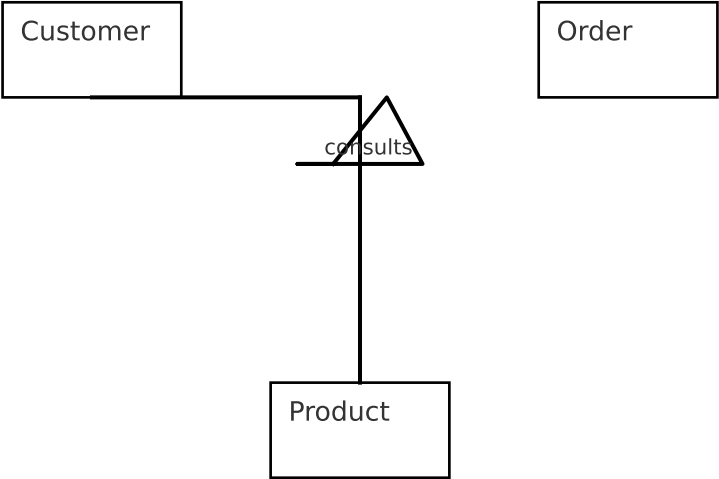
Class diagram for Education: refine with associations, multiplicities and interfaces.

E-Commerce - DFD (Context + Level 1)

Customer

Payment Gateway

Core Process

Database (Core Data)

DFD for E-Commerce: show data flows between external entities, processes, and data stores.

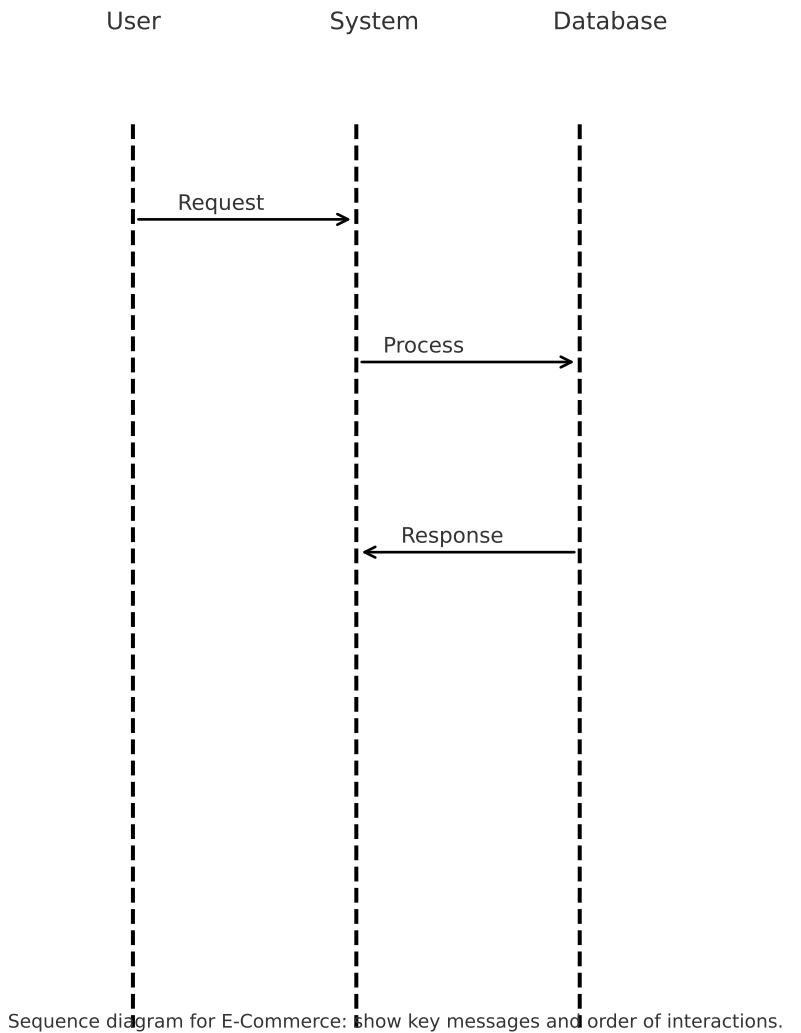# E-Commerce - ER Diagram (Core Entities)

Customer

Order

consults

Product

ER Diagram for E-Commerce: include attributes and cardinalities in final version.

E-Commerce - Usecase Diagram (Top Usecases)

Register / SignUp

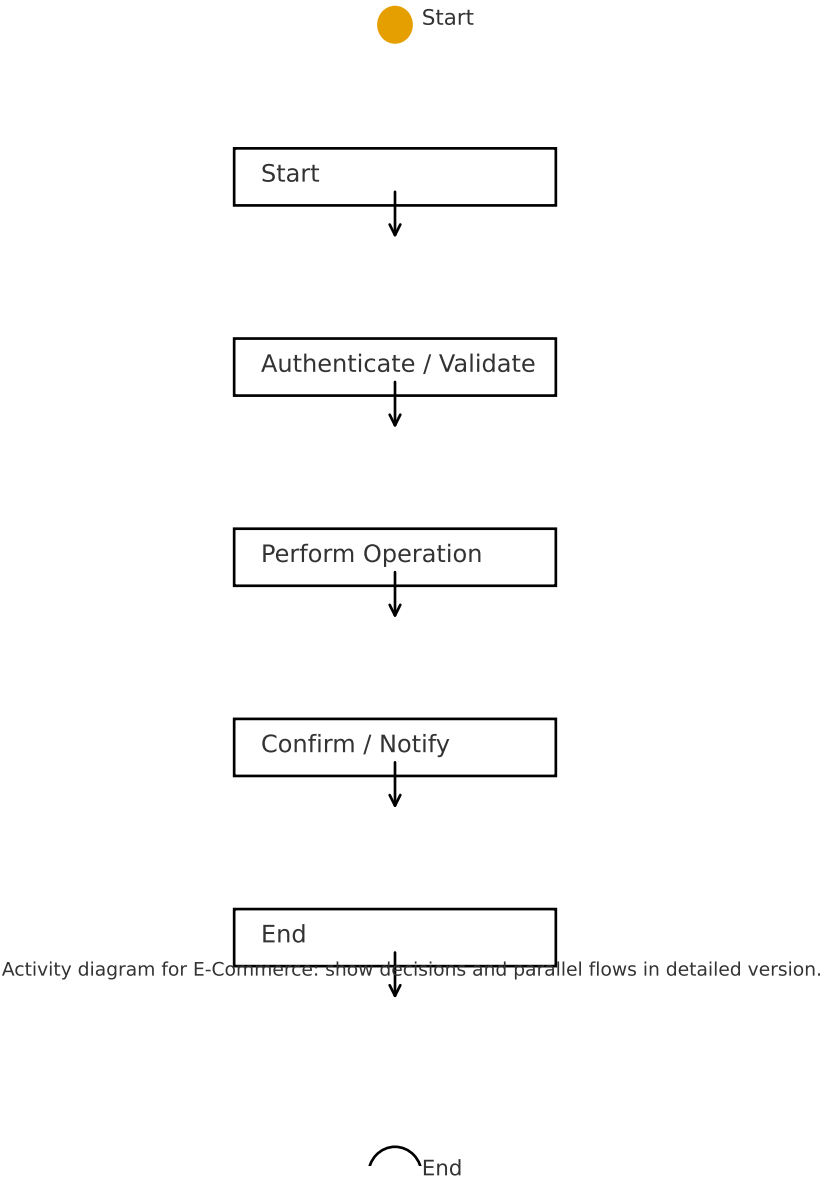Search / Browse

Purchase / Enroll / Book
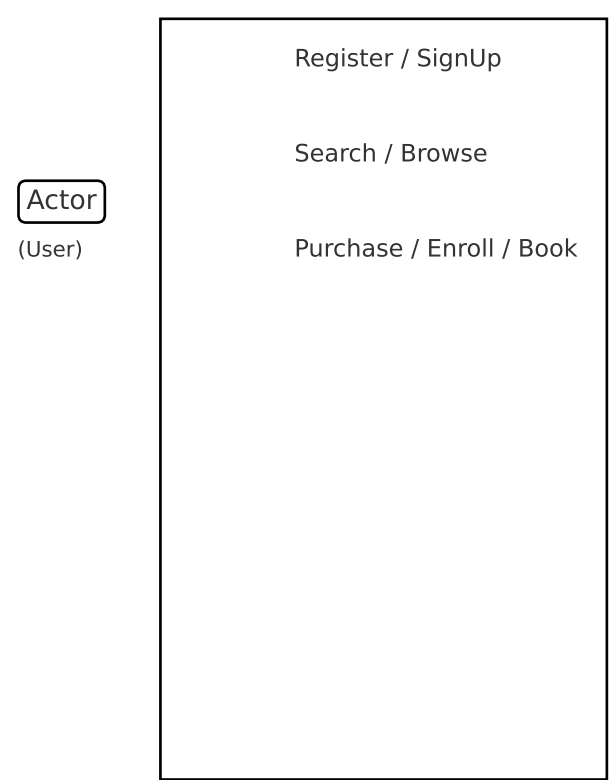
Actor

(User)

Usecase diagram for E-Commerce: actors (user, admin, external services) and major usecases.

E-Commerce - Sequence Diagram (Example Flow)

User　　　　　System　　　　　Database

User → System: **Request**

System → Database: **Process**

Database → System: **Response**

Sequence diagram for E-Commerce: show key messages and order of interactions.

E-Commerce - Activity Diagram (Core Flow)

Start

Start

Authenticate / Validate

Perform Operation

Confirm / Notify

End

Activity diagram for E-Commerce: show decisions and parallel flows in detailed version.

End

E-Commerce - Class Diagram (Core Classes)

Customer

id\nname\nemail

login()\nregister()

Product

id\ntitle\nprice

getDetails()

Order

id\nuserId\nstatus

create()\ncancel()
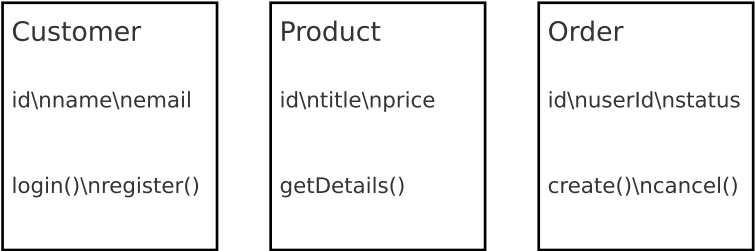
Class diagram for E-Commerce: refine with associations, multiplicities and interfaces.