**Entities**

**Product** → A type of a product sold by the shop. This entity will hold the attributes:

-productId

-name

-price

-{category}

-{itemId}

**Item**→ Entity that contains the stock information of the shop. This entity will hold the attributes:

-itemId

-dateBought

-dateSold

-[age]

-isSold

**Employee** → A person who works for the shop. This entity will hold the attributes:

-employeeId

-name

-surname

-email

-salary

-workEntranceDate

-birthDate

-phoneNumber

-[age]

-{address (country, city, street, houseNumber, zipCode)}

-{education (beginYear, endYear, average)}

**Sales\_Employee** extends **Employee**→ An employee who interacts with customers to sell items. This entity will hold the attributes:

-{itemsSold}

-printedDocument

**Manager** extends **Employee** → An employee who manages other employees. This entity will hold the attributes:

-{employeeId}

**Customer** → A person who is a customer for this shop. This entity will hold the attributes:

-customerId

-name

-surname

-phoneNumber

-{address}

-{receipts}

**Receipt** → Receipt information of a sale. This entity will hold the attributes:

-receiptId

-date

-{itemId}

-[totalPrice]

**Print\_Order →** An order for documents to be printed. This entity will hold attributes:

**-**printOrderId

-{documentId}

-[price] #based on number of documents

**Document** → A document holding text. This entity will hold attributes:

**-**documentId

-content

**BUSINESS PROCESS**

1) Item sale, where customer buys product from salesperson

2) Printer sale, where customer asks for a document(or many) to be printed

**BUSINESS RULES/CONSTRAINTS**

1) An employee cannot be both a sales\_employee and a cashier and cannot be neither.

2) A salesperson can only sell to one customer at a time, and vice versa

3) Each document is 1 page

**OTHER REQUIREMENTS**

1) Employee must be over 18 years of age