Develop an Ecommerce Website with Laravel

Department of Computer Science and Engineering

Course Title: Project Based Learning (PBL)

SUBMITTED TO

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TARGET USER/AUDIENCE

The target audience for an e-commerce site can be:

1. **Consumers:** individuals who are looking to purchase products or services for personal use.
2. **Businesses:** companies or organizations looking to purchase products or services for commercial use.
3. **Young adults:** a demographic that is heavily reliant on online shopping.
4. **Tech-savvy individuals:** people who are comfortable with using technology for shopping and have access to the internet.
5. **Price-conscious shoppers:** individuals who are looking for the best deals and discounts on products and services.

OBJECTIVES

- Manage Online Selling Costs in a Strategic Way.
- Establish Deeper Business Relationships.
- Provide a Unique Customer Experience.
- Improve Customer Loyalty.
- Refine Service Efficiency.
- Identify the Right Target Audience.
- Sell More.

DESIGN METHODOLOGY

1. **Scoping and planning**
   In this phase, we focus on planning the project's overall direction, including the definition of the project's scope, objectives, and timelines.
2. **Conceptual design and research**
   In this phase, the conceptual design of the methodology is developed, and research on existing methodology.
3. **Development of methodology**
   The actual methodology is developed in this phase. Detailed descriptions of each task in the methodology are documented, including the objectives,

inputs, approach, relevant models, applicable tools and techniques, outputs, and any references.

4. **Implementation of methodology**
   This phase includes the marketing of E-commerce strategy development services and the closing of the sale, followed by the actual implementation.

5. **Revision of methodology**
   Final touches and revisions to the methodology are made in this phase. The majority of these revisions come from experiences on the client project.
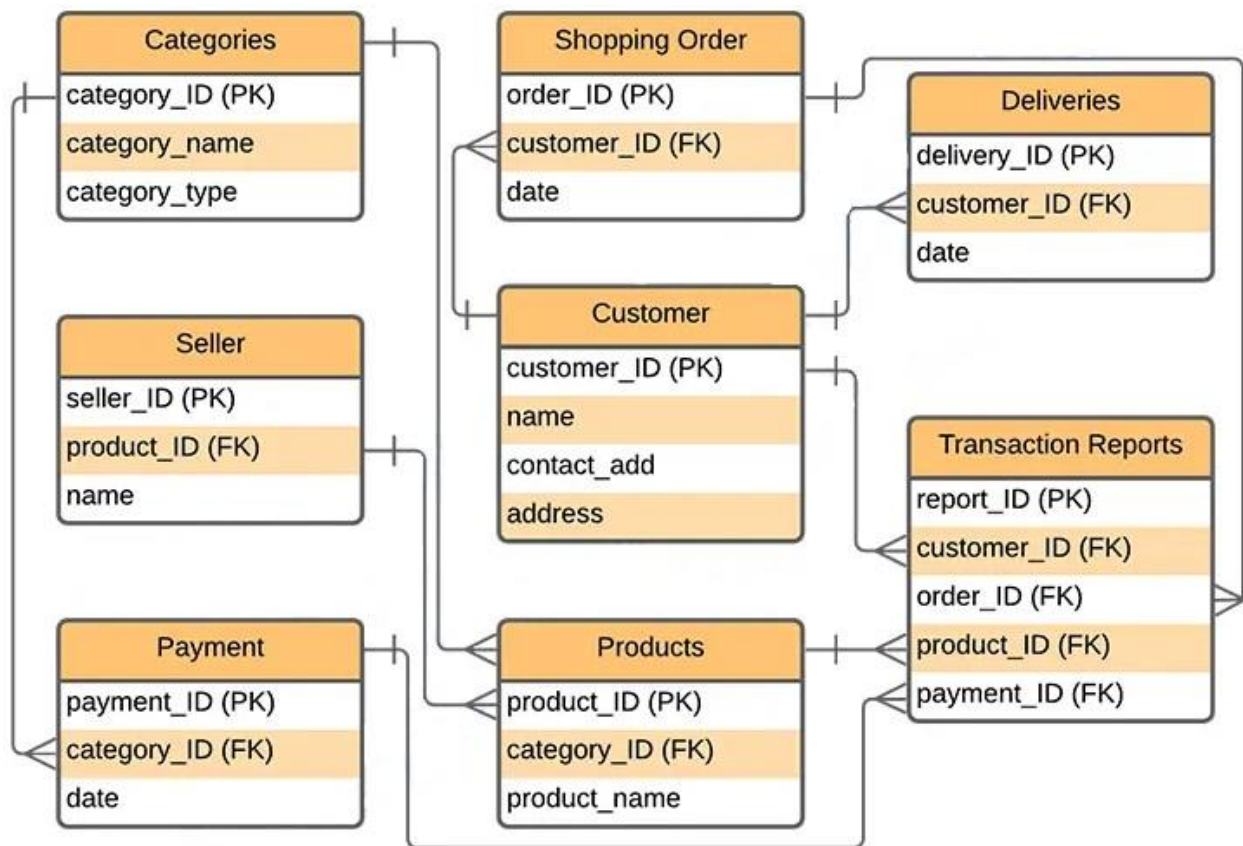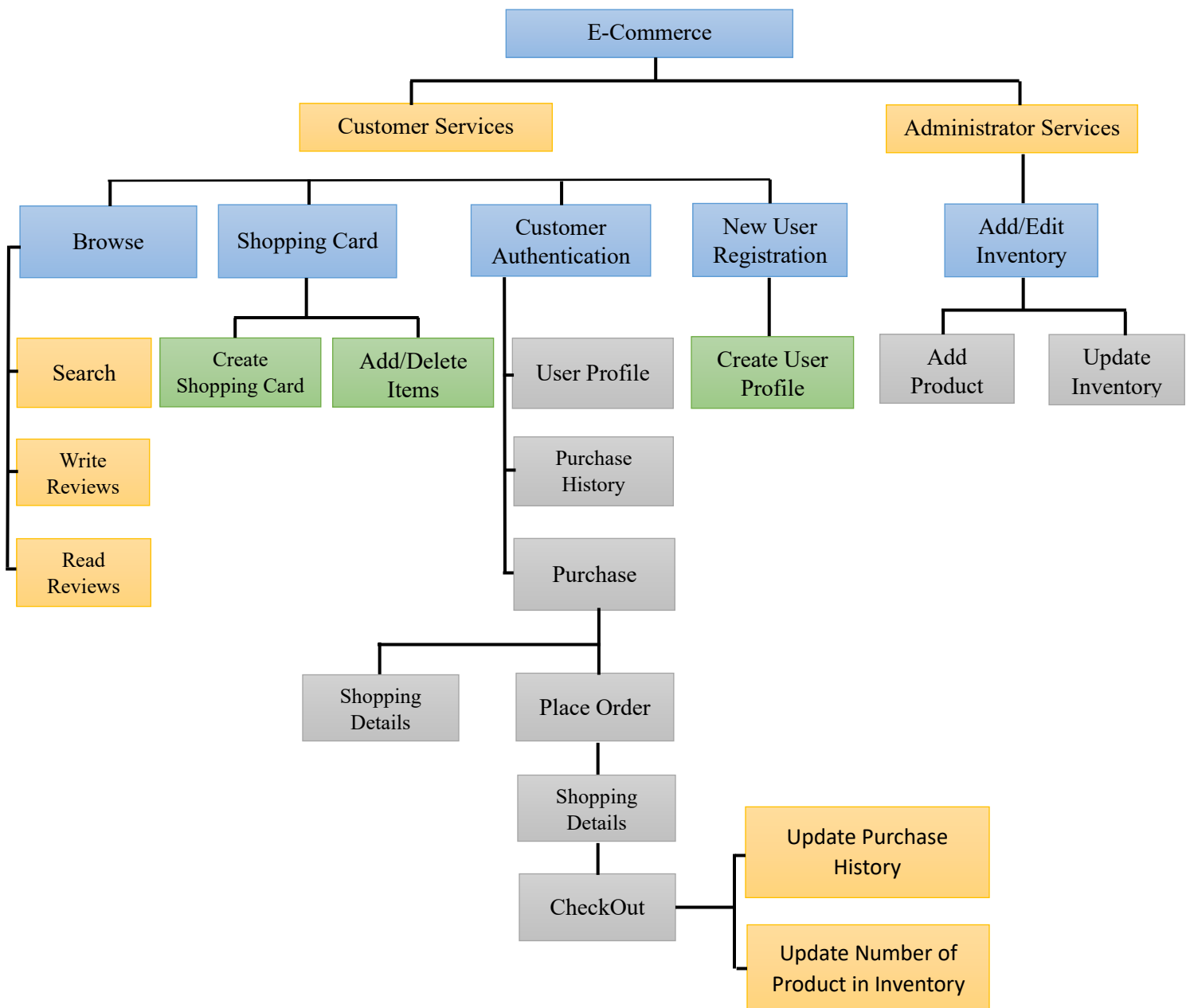
ER DIAGRAM

Fig *ER diagram for E-commerce Website*

Based on the image above, the **Entity-Relationship diagram for *an e-commerce website*** is the database design presented with tables. The tables are made to meet the requirements of the system and provide much more specific details of each entity within the system.

FUNCTIONAL DIAGRAM

```
                              ┌─────────────────┐
                              │   E-Commerce    │
                              └────────┬────────┘
                   ┌───────────────────┴───────────────────┐
         ┌─────────────────────┐              ┌─────────────────────────┐
         │  Customer Services  │              │  Administrator Services │
         └──────────┬──────────┘              └────────────┬────────────┘
   ┌──────┬─────────┼──────────────┬──────────┐            │
┌───────┐ ┌──────────┐ ┌──────────────┐ ┌──────────────┐ ┌──────────────┐
│Browse │ │ Shopping │ │   Customer   │ │  New User    │ │  Add/Edit    │
│       │ │   Card   │ │Authentication│ │ Registration │ │  Inventory   │
└───┬───┘ └────┬─────┘ └──────┬───────┘ └──────┬───────┘ └──────┬───────┘
```

E-Commerce

- **Customer Services**
  - **Browse**
    - Search
    - Write Reviews
    - Read Reviews
  - **Shopping Card**
    - Create Shopping Card
    - Add/Delete Items
  - **Customer Authentication**
    - User Profile
    - Purchase History
    - Purchase
      - Shopping Details
      - Place Order
        - Shopping Details
          - CheckOut
            - Update Purchase History
            - Update Number of Product in Inventory
  - **New User Registration**
    - Create User Profile
- **Administrator Services**
  - **Add/Edit Inventory**
    - Add Product
    - Update Inventory

THE END