Software Testing Assignment

Module–1(Fundamental)

- What is SDLC
  - SDLC is a structure imposed on the development of a software product that defines the process for planning, implementation, testing, documentation, deployment, and ongoing maintenance and support.
  - There are a number of different development models.

- What is software testing?
  - Software Testing is a process used to identify the correctness, completeness, and quality of developed computer software.

- What is agile methodology?
  - Agile SDLC model is a combination of iterative and incremental process models with focus on process adaptability and customer satisfaction by rapid delivery of working software product.

- What is SRS
  - (SRS): Software Requirement Specification
  - A software requirements specification (SRS) is a complete description of the behavior of the system to be developed.

- What is oops (OBJECT ORIENTED PROGRAMING)
  - An object is like a black box.
  - The internal details are hidden.

- Write Basic Concepts of oops
  - OBJECT
  - CLASS
  - ENCAUPASULATION
  - INHERITANCE
  - POLYMORPHISM
  - ABSTRACTION

- What is object

  - That is both data and function that operate on data are bundled as a unit called as object.

- What is class
  - A Class Represant an abstraction of the object and abstracts the properties and behavior of that object.

- What is encapsulation
  - Encapsulation is the practice of including in an object everything it needs hidden from other objects. The internal state is usually not accessible by other objects.

- What is inheritance
  - Inheritance means that one class inherits the characteristics of another class. This is also called a “is a” relationship

- What is polymorphism
  - Polymorphism means “having many forms”.
  - It allows different objects to respond to the same message in different ways, the response specific to the type of the object.

- Write SDLC phases with basic introduction
  - SDLC is a structure imposed on the development of a software product that defines the process for planning, implementation, testing,documentation, deployment, and ongoing maintenance and support.
  - There are a number of different development models.

- Explain Phases of the waterfall model
  - Requirements must be "frozen" to early in the life cycle
  - Requirements are validated too late
  - Simple and easy to understand and use

- Write phases of spiral model
  - Planning
  - Risk analysis
  - Engineering
  - Customer Evalution

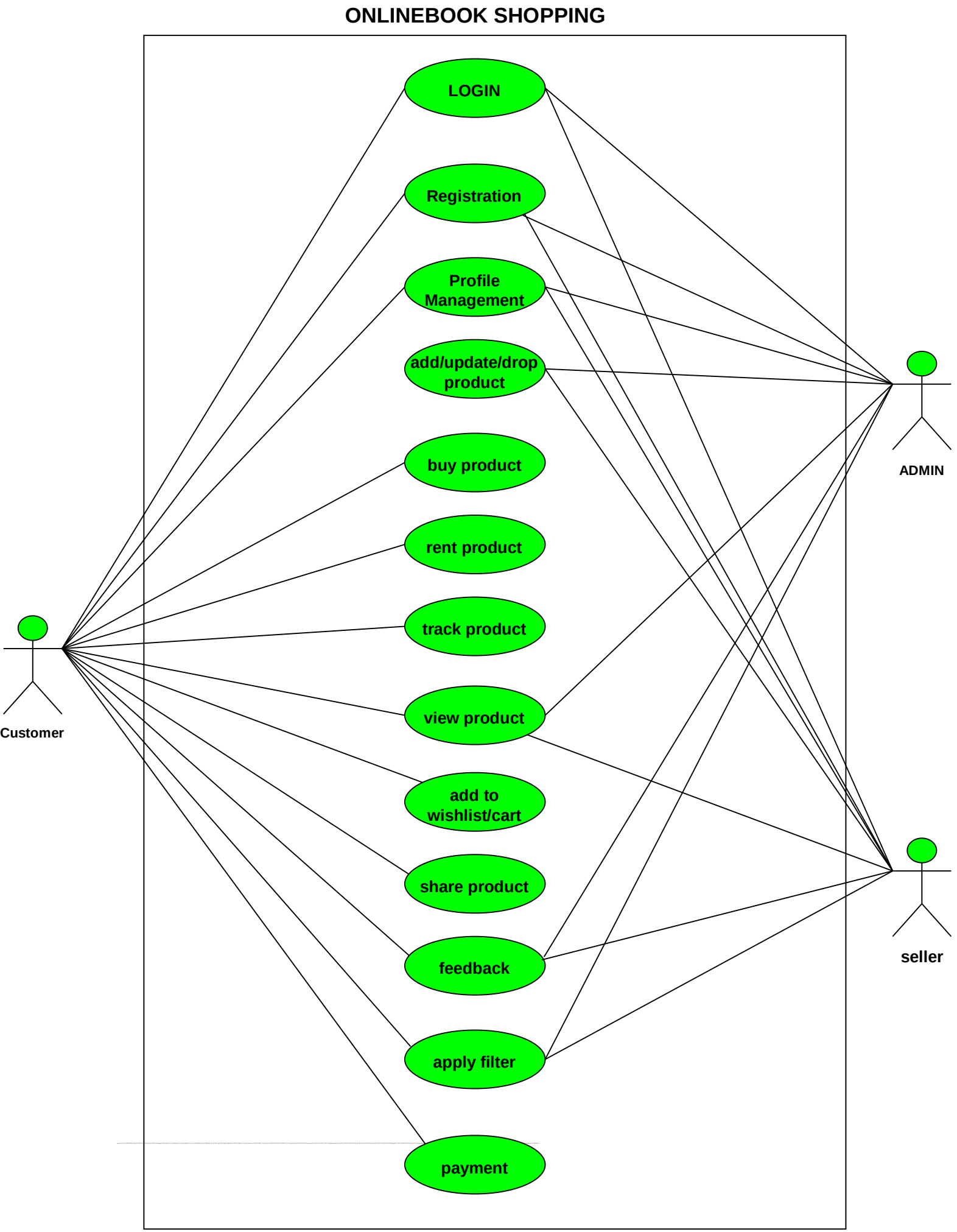
- Explain working methodology of agile model and also write pros and cons.
  - Agile SDLC model is a combination of iterative and incremental process models with focus on process adaptability and customer satisfaction by rapid delivery of working software product.
  - These builds are provided in iterations.
  - Each iteration typically lasts from about one to three weeks.

Pro : - Functionality can be developed rapidly and demonstrated.
  - Resource requirements are minimum.
  - Delivers early partial working solutions.

Cons : - Not suitable for handling complex dependencies.
  - More risk of sustainability, maintainability and extensibility.
  - An overall plan, an agile leader and agile PM practice is a must without which it will not work.

- Write agile manifesto principles
  - Individuals and interactions
  - Working software
  - Customer collaboration
  - Responding to change

- Explain Phases of the waterfall model
  - Requirements
  - Analysis
  - Design
  - Implementation
  - Testing
  - Maintenance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add to wishlist/cart
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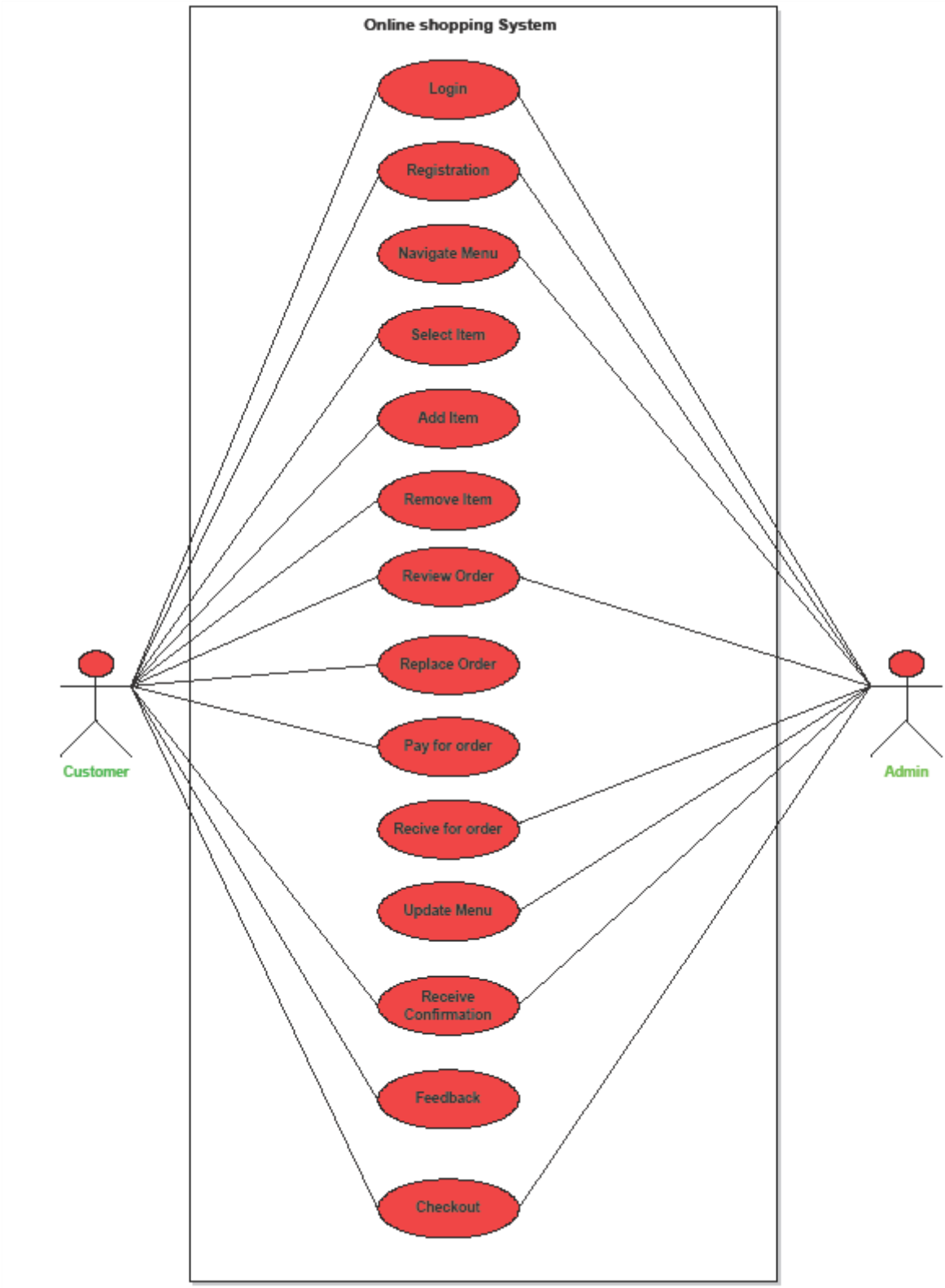
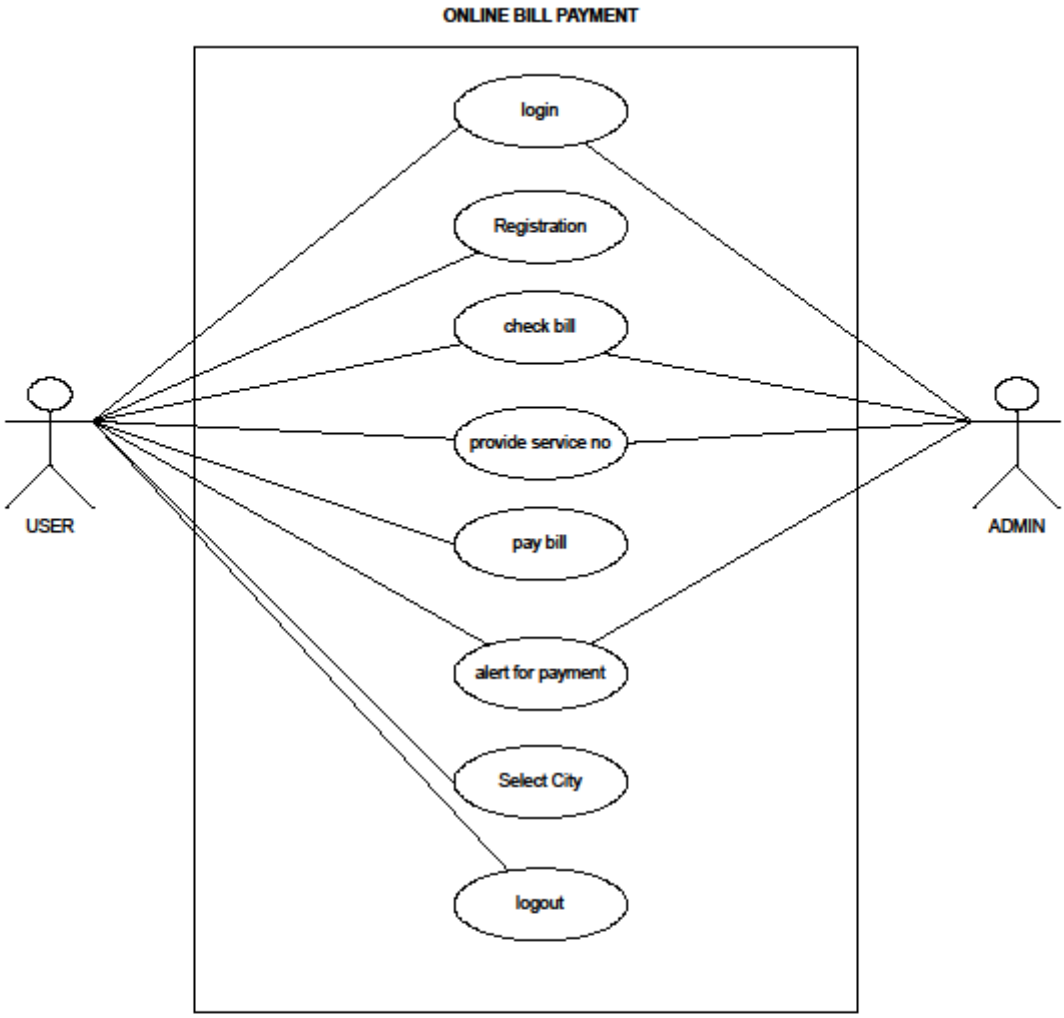
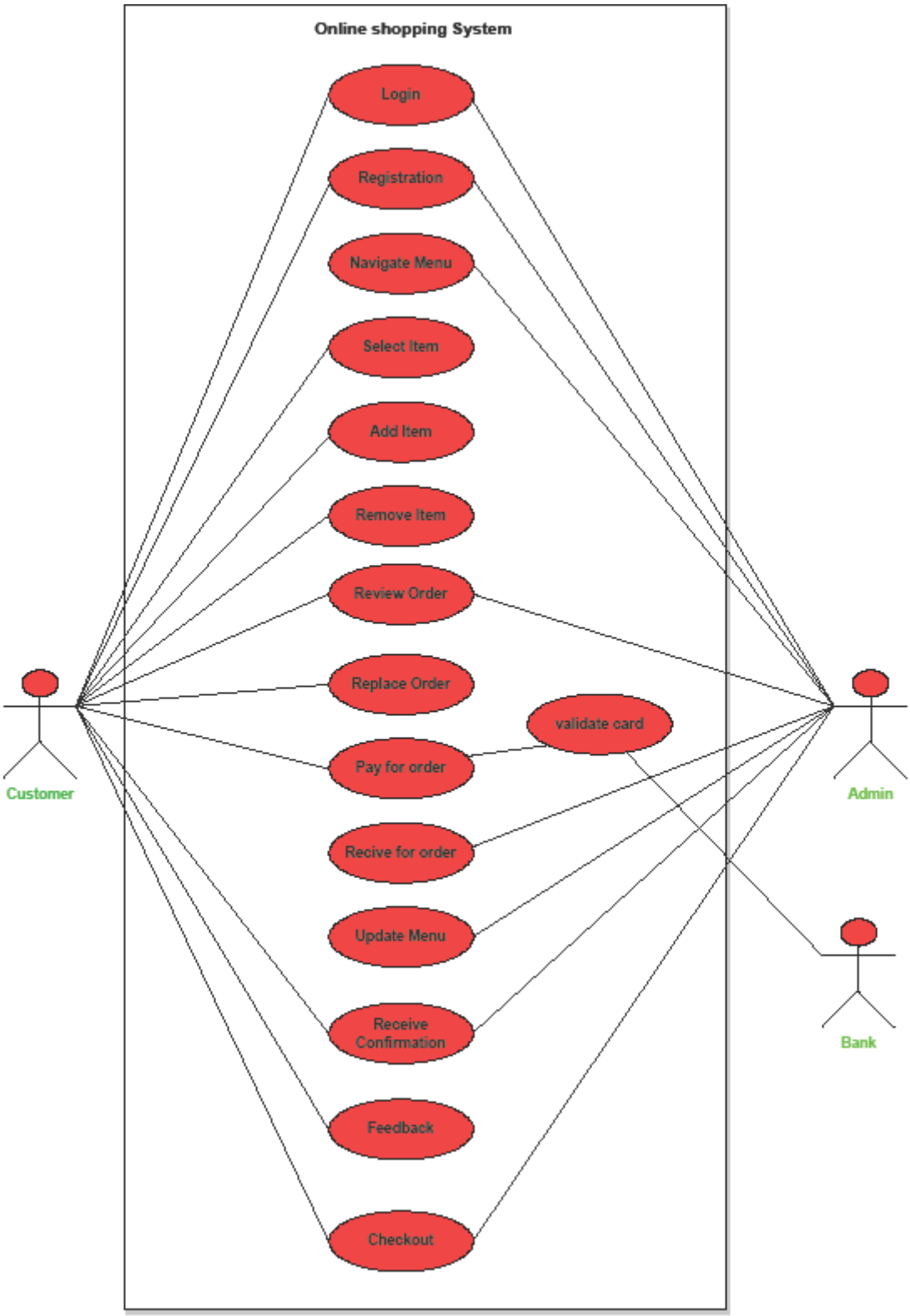

Online shopping System
Login
Registration
Navigate Menu
Select Item
Add Item
Remove Item
Review Order
Replace Order
Pay for order
Recive for order
Update Menu
Receive Confirmation
Feedback
Checkout
Customer
Admin

- Draw usecase on Online shopping product using COD.




Online shopping System
Login
Registration
Navigate Menu
Select Item
Add Item
Remove Item
Review Order
Replace Order
Pay for order
validate card
Recive for order
Update Menu
Receive Confirmation
Feedback
Checkout
Customer
Admin
Bank