NURSERY SYSTEM

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CHAPTER-1 INTRODUCTION

Need of the new system

- In present era, the importance of **Nursery Store** is growing up day by day, user needs a simple interface to order Plants online, this project **Online Nursery Store** fulfills all the requirements of user and it provides an easy interface to navigate.
- This Online Nursery Store allows the user to select the desired Plants from a list of available menu items.
- We have simplified the flow of Plants ordering in this project, so if a person wants to buy Plants then he can easily order online on some clicks only. Also, we have implemented filters so customer can choose category from Nursery, Type etc.

- The customer can easily place orders for the Plants items of their choice. For ordering the Plants customer needs to register into the system with their dtails and after the registration, customer can filter out the Plants according to the Nursery, Type user will add the Plants into the cart and make order.

Detailed problem definition

- In this system, we have developed an approach to allow customers to buy plants without even visiting shop.
- Being able to buy anytime, anywhere, any place.
- Site enables them to browse before they shop, and to research the product so they have more confidence in what they are buying.
- Online shopping becomes more enjoyable and easier than real- world shopping.
- It provides Cash On Delivery facility.
- Customer can track their order detail and give the rating according to his experience.

Viability of the system

- This system can easily understand and use it.
- Plant details will also provide.
- Online payment also will be provide.
- Customer rating section.
- The proposed system can guarantee to keep the records are safe and privacy which is stored in the database.

Presently available system for the same

- https://www.santhionlineplants.com/
- In this system there is no any detailed rating of product.
- Lack of Choices.
- There is no option for vases (pots/planters).
- There are no any facilities for plantation tools, fertilizers, take care tips, pesticides.

Future Prospect

- Number of shopkeeper’s can register to the web portal for increase their sale.
- Hire Expert of gardening.
- This application can be used by any user to purchase the online plants and get appropriate information by viewing short summery about the plants items through videos.
- If any changes to make customer can purchase the plants through different payment schemes like debit card, credit card, pat, phone pay, cash on delivery etc.

CHAPTER-2 ANALYSIS

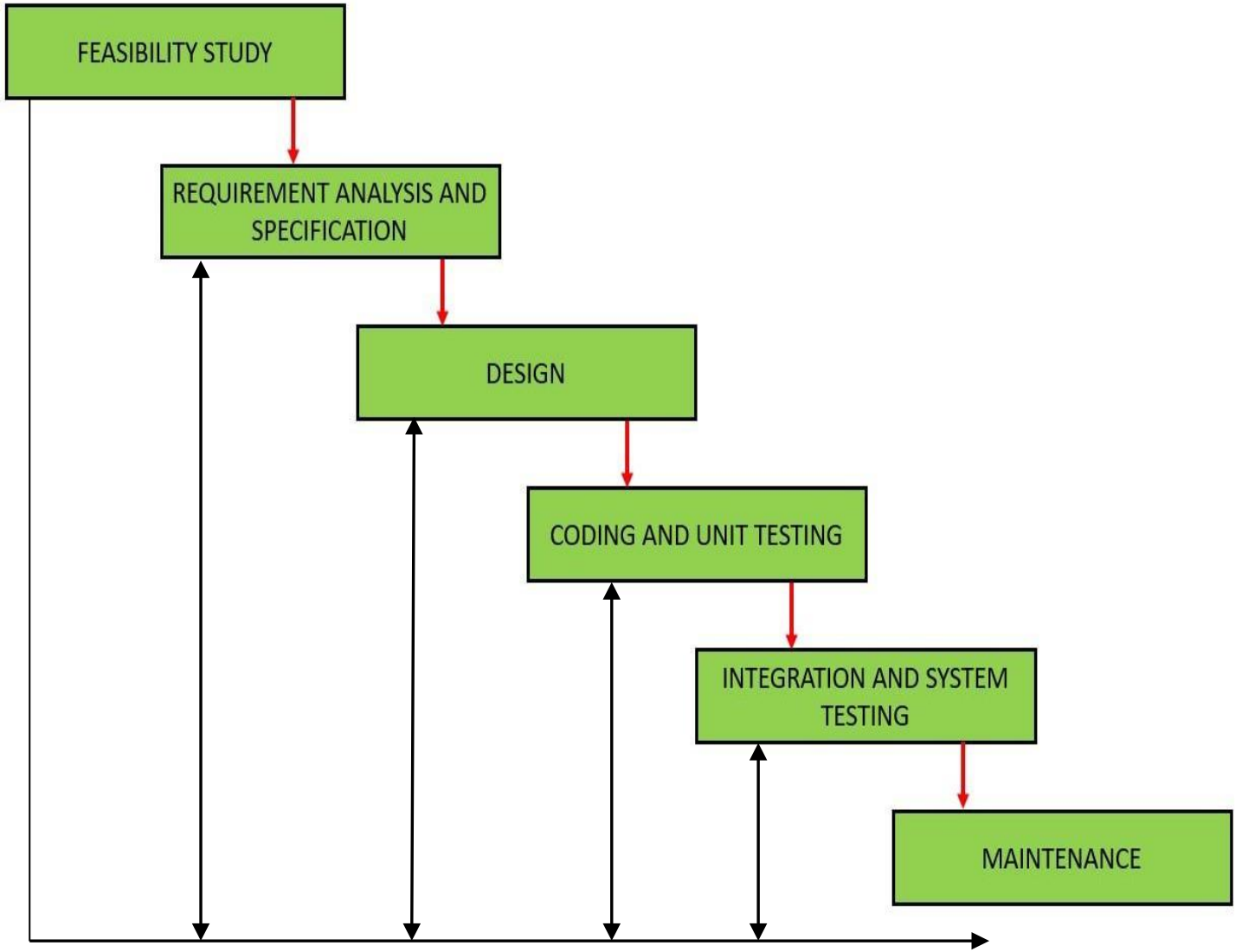
Requirement Analysis

- In present era, the importance of **Online Nursery Store** is growing up day by day, user needs a simple interface to order Plants online, this project **Online Nursery Store** fulfills all the requirements of user and it provides an easy interface to navigate.
- The customer can easily place orders for the Plants items of their choice. For ordering the Plants customer needs to register into the system with their details and after the registration, customer can filter out the Plants according to the Nursery, Type, Company, he will add the Plants into the cart and make payment.

Project Model

- When errors are detected at some later phase, these feedback paths allow correcting errors committed by programmers during some phase. The feedback paths allow the phase to be reworked in which errors are committed and these changes are reflected in the later phases. But, there is no feedback path to the stage – feasibility study, because once a project has been taken, does not give- up the project easily.
- It is good to detect errors in the same phase in which they are committed. It reduces the effort and time required to correct the errors.
- User can also give feedback, rating and can upload product images and it provides easy return policy if there any problem.

- **Phase Containment of Errors:** The principle of detecting errors as close to their points of commitment as possible is known as Phase containment of errors.


FEASIBILITY STUDY
REQUIREMENT ANALYSIS AND SPECIFICATION
DESIGN
CODING AND UNIT TESTING
INTEGRATION AND SYSTEM TESTING
MAINTENANCE

Advantages of iterative waterfall model

- **Feedback Path:** In the classical waterfall model, there are no feedback paths, so there is no mechanism for error correction. But in iterative
- **Simple:** Iterative waterfall model is very simple to understand and use. That’s why it is one of the most widely used software development models.
- User gets a chance to experiment with partially developed software.
- This model helps finding exact user requirements.
- Feedback providing at each increment is useful for determining the better final product.

Schedule Representation

- Generalized project scheduling tools and technique can be applied with little modification to software projects.
- Program evolution and review techniques (PERT) and critical path method (CPM) are two project scheduling method that can be applied to software development. Both techniques are driven by information already developed in earlier project planning activities:
- Estimate of effort.
- A decomposition of the product function.
- The selection of appropriate process model and task set.
- Decomposition of tasks.

Feasibility Study

Technical Feasibility

- The system is self-explanting and does not need any entire sophisticated training. A system has been built by concentrating on the graphical user interface concepts, the website can also be handled very easily with a novice uses. The overall time that a user needs to get trained is less than 15 minutes. The system has been added with features of menu device and button interaction methods, which makes him the master as he starts working through the environment. As the software that were used as developing this application are very economical and are readily available is the market the only time that is lost by the customer is just installation time.

Economical Feasibility

- To produce an ecommerce website requires a high-speed connection to the Internet, a web server, and software. Other costs that are relevant is the cost of the payment system, whether it is taking online payment directly from the society's web site or an alternative third-party like Pay pal or more expensively using an online bank.
- It refers to the benefits or outcomes we are deriving from the product as compared to the total cost we are spending for developing the benefits are more or less the same as the older system then it is not feasible to develop the product. The product is economical feasible. It will provide following benefits:
- Reduces the processing time
- Reduces the work load
- Administrative will be effective

Operational Feasibility

- It refers to the feasibility of the product to be operational. Some products may work very well at the design and implementation but many fail in the real time environment. It introduces the study of human resources required and their technical expertise. This product is operationally feasible as it is designed specifically for E-Nursery. This provides consistent and integrated data management. It also provides information at all levels of people.

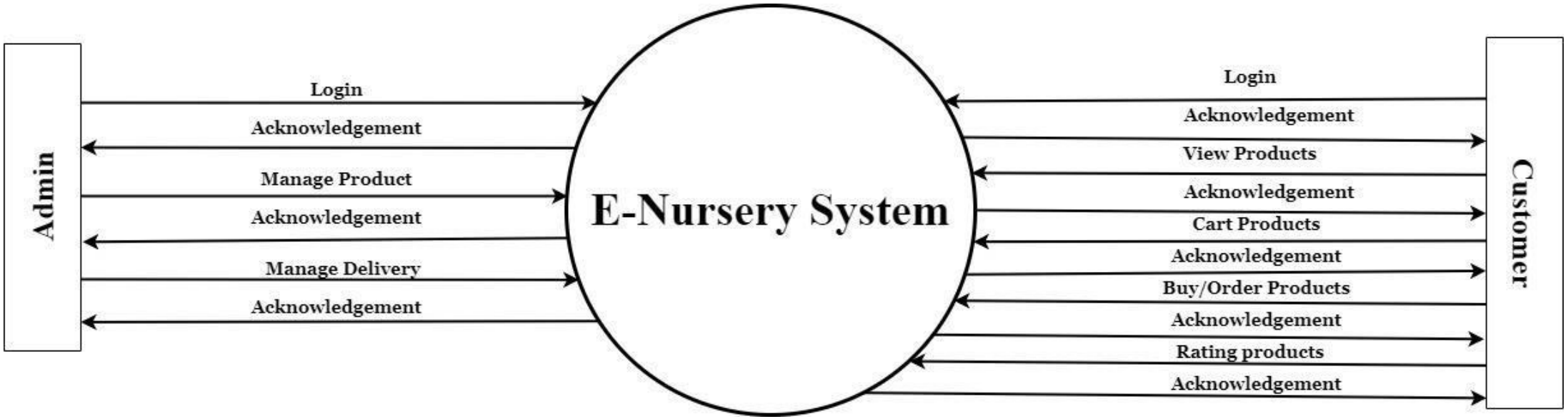
CHAPTER 3 DESIGN

Data flow diagram

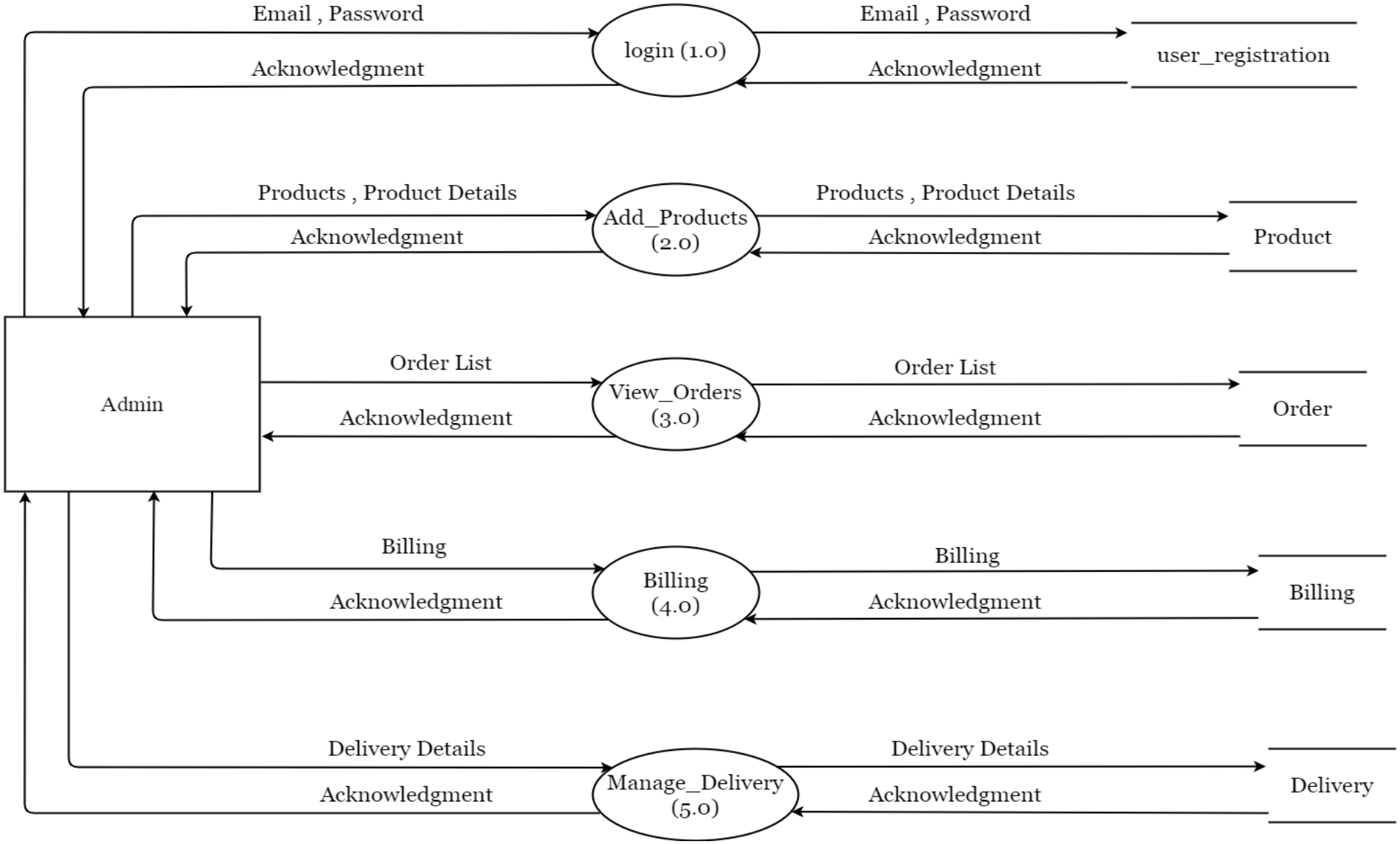
- DFD (data flow diagram) is also known as bubble chart or data flow graph. DFD’s are very useful in understanding the system and can be effectively used during analysis. It shows flow of data through a system visually. The DFD is a hierarchical graphical model of a system the different processing activities or functions that the system performs and the data interchange among these functions. It views a system as a function that transforms the inputs into desired output. Each function is considered as a process that consumes some input data and produces some output data. Function model can be represented using DFD.

	**dataflow**	**Arrows showing direction of flow**
	**process**	**circles**
	**file**	**horizontal pair of lines**
	**data-source, sink**	**rectangular box**

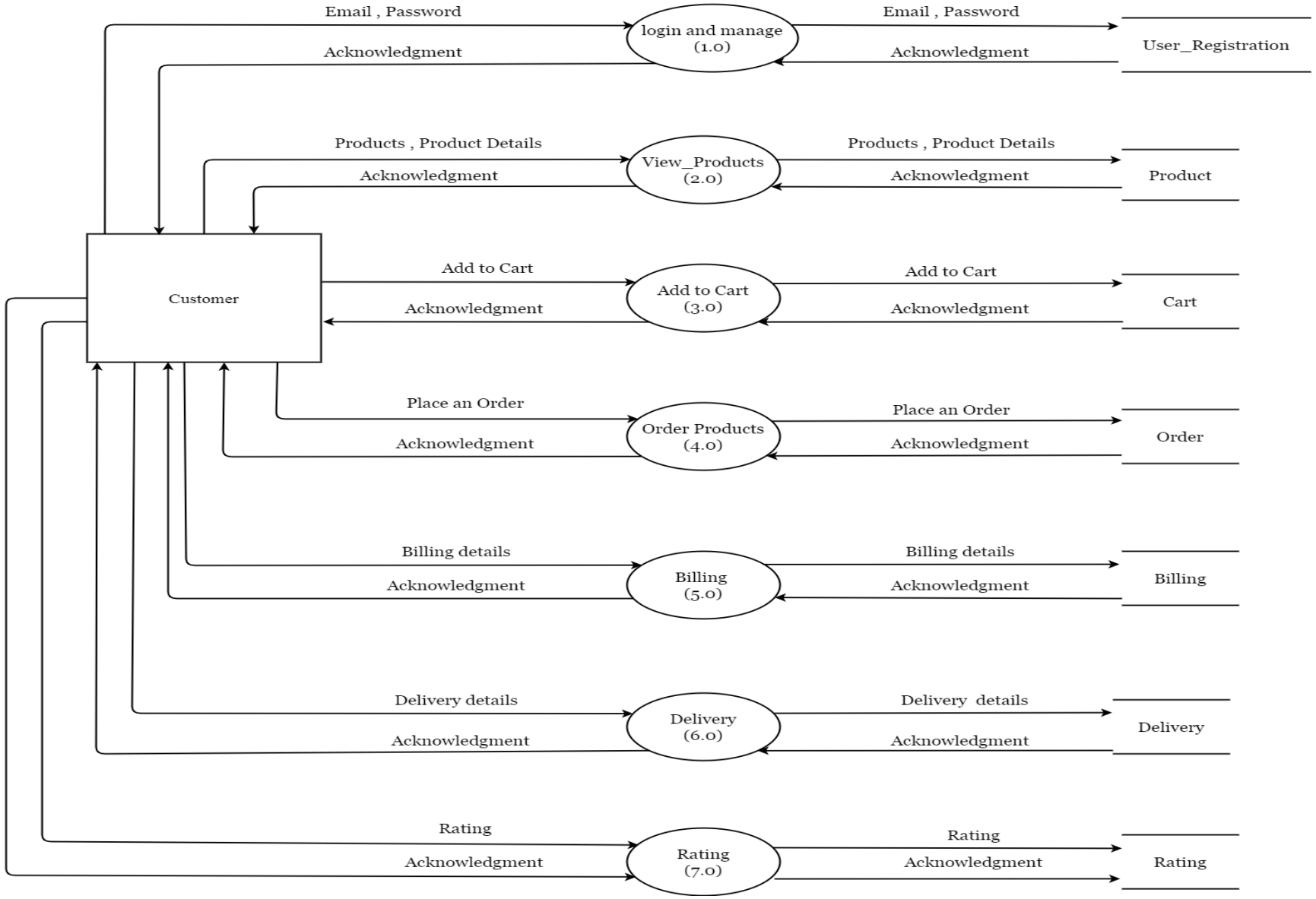
DFD Context level-0



DFD 2: Level-Admin

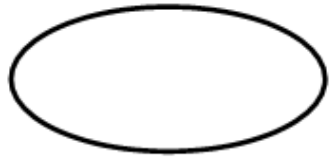
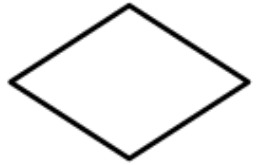


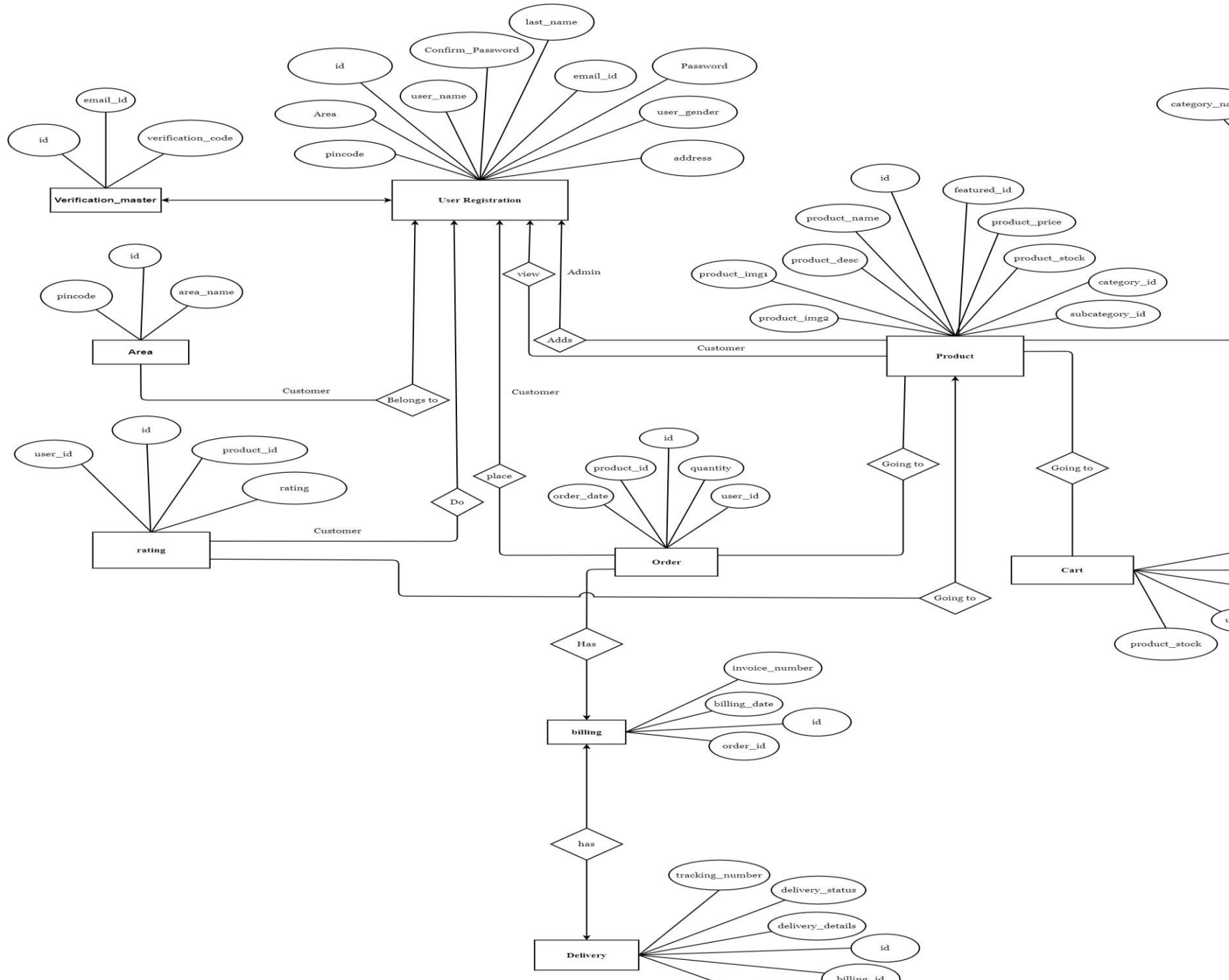
DFD 3: Level-Customer



ER-Diagram

- An Entity Relationship (ER) Diagram is a type of flowchart that illustrates how “entities” such as people, objects or concepts relate to each other within a system. ER Diagrams are most often used to design or debug relational databases in the fields of software engineering, business information systems, education and research. Also known as ERDs or ER Models, they use a defined set of symbols such as rectangles, diamonds, ovals and connecting lines to depict the interconnectedness of entities, relationships and their attributes. They mirror grammatical structure, with entities as nouns and relationships as verbs.

Symbols	Description
	**Entity:** Data object is real world entity or thing. It is represented by a rectangle shape. An entity is an object or concept about which you want to store information.
	**Attributes:** An attribute is property of characteristic of an entity. It is represented by oval shape.
	**Relationship:** Entity are connected each other via relations. Generally, relationships in binary because there are two entities are related to each other.
	**Cardinality (One to One):** An instance of entity A can relate to one instances of entity B.
	**Cardinality (One to Many):** An instance of entity A can relate to one or many instances of B but we can only relate one instance of A.
	**Cardinality (Many to One):** One or more instances of entity A can relate to one instances of B.
	**Cardinality (Many to Many):** One or more instances of entity A can relate to one more instance of entity B.


last_name
Confirm_Password
id
email_id
Password
user_name
email_id
Area
user_gender
id
verification_code
pincode
address
Verification_master
User Registration
id
featured_id
product_name
product_price
product_desc
product_stock
product_img1
category_id
view
Admin
product_img2
subcategory_id
id
pincode
area_name
Adds
Customer
Product
Area
Customer
Belongs to
Customer
id
user_id
product_id
rating
place
Do
id
product_id
quantity
order_date
user_id
Going to
Going to
Customer
rating
Order
Cart
Going to
product_stock
Has
invoice_number
billing_date
billing
id
order_id
has
tracking_number
delivery_status
delivery_details
Delivery
id

CHAPTER-4 SYSTEM MODELING

Database dictionary

1. **Table name:** User_registration

Primary key: user_id

SR.NO	FIELDNAME	DATATYPE(SIZE)	CONSTRAINT	DESCRIPTION
1	id	Int(10)	Primary key	User’s id
2	user_name	Varchar(20)	Not null	User’s First name
3	email_id	Varchar(30)	Unique	User’s email id
4	password	Varchar(20)	Not null	User’s password
5	confirm_password	Varchar(20)	Not null	User’s password
6	phone_number	BigInt(12)	Not null	User’s number
7	area	Varchar(20)	Not null	User’s area
8	address	Varchar(150)	Not null	User’s address
9	pincode	Int(6)	Not null	User’s pincode
10	user_gender	Varchar(20)	Not null	User’s gender

2. Table name: Product

Primary key: product_id

SR.NO	FIELDNAME	DATATYPE(SIZE)	CONSTRAINT	DESCRIPTION
1	id	Int(10)	Primary key	Product id
2	product_name	Varchar(50)	Not null	Product name
3	product_desc	Varchar(250)	Not null	Product description
4	product_img1	Varchar(40)	Not null	Product image 1
5	product_img2	Varchar(40)	Not null	Product image 2
6	product_price	Int(6)	Not null	Product price
7	product_stock	Int(4)	Not null	Product’s stock
8	category_id	Int(10)	Foreign key	Category id
9	sub_category_id	Int(6)	Foreign key	Product’s subcategory
10	featured_id	TinyInt(2)	Default 0	Product featured

3. Table name: Category

Primary key: category_id

SR.NO	FIELDNAME	DATATYPE(SIZE)	CONSTRAINT	DESCRIPTION
1	id	Int(10)	Primary key	Category id
2	category_name	Varchar(50)	Not null	Category name
3	category_desc	Varchar(100)	Not null	Category description
4	parent_id	Int(10)	Default 0	Parent id

4. Table name: Area

Primary key: area_id

SR.NO	FIELDNAME	DATATYPE(SIZE)	CONSTRAINT	DESCRIPTION
1	id	Int(10)	Primary key	Area
2	area_name	Varchar(30)	Not null	Area name
3	pincode	Int(6)	Not null	Area pincode

5. Table name: Verification_master

Primary key: id

SR.NO	FIELD NAME	DATATYPE(SIZE)	CONSTRAINT	DESCRIPTION
1	id	Int(10)	Primary key	id
2	email_id	Varchar(30)	Foreign key	Email id
3	verification_code	Varchar(20)	Unique	Verification code

6. Table name: Rating

Primary key: rating_id

SR.NO	FIELD NAME	DATATYPE(SIZE)	CONSTRAINT	DESCRIPTION
1	id	Int(10)	Primary key	Rating id
2	user_id	Int(10)	Foreign key	User’s id
3	product_id	Int(10)	Foreign key	Product’s id
4	rating	enum('1', '2', '3', '4', '5')	Not null	Rating

7. Table name: Cart

Primary key: cart_id

SR.NO	FIELD NAME	DATATYPE(SIZE)	CONSTRAINT	DESCRIPTION
1	id	Int(10)	Primary key	Cart id
2	user_id	Int(10)	Foreign key	User’s id
3	product_id	Int(10)	Foreign key	Product’s id
4	product_stock	Int(10)	Not null	Product’s stock
5	product_quantity	Int(10)	Not null	Product’s quantity

8. Table name: Order

Primary key: order_id

SR.NO	FIELDNAME	DATATYPE(SIZE)	CONSTRAINT	DESCRIPTION
1	id	Int(10)	Primary key	Order id
2	user_id	Int(10)	Foreign key	User’s id
3	product_id	Int(10)	Foreign key	Product’s id
4	quantity	Int(6)	Not null	Quantity
5	order_date	Date	Not null	Order date

9. Table name: Billing

Primary key: billing_id

SR.NO	FIELDNAME	DATATYPE(SIZE)	CONSTRAINT	DESCRIPTION
1	id	Int(10)	Primary key	Billing id
2	order_id	Int(10)	Foreign key	Order id
3	invoice_number	Int(10)	Unique	Invoice number
4	billing_date	Date	Not null	Billing date

10. Table name: Delivery

Primary key: delivery_id

SR.NO	FIELDNAME	DATATYPE(SIZE)	CONSTRAINT	DESCRIPTION
1	id	Int(10)	Primary key	Delivery id
2	billing_id	Int(10)	Foreign key	Billing id
3	tracking_number	Varchar(10)	Unique	Tracking number
4	date_shipped	Date	Not null	Date Shipped
5	delivery_status	TinyInt(1)	Not null	Delivery status
6	delivery_details	Varchar(150)	Not null	Delivery details

Technical Specification

IDE : Sublime Text

Frontend : HTML and CSS , Javascript

Backend : PHP , MySQL

Proposed Systems

Overcomed Functionalities :

1 : In Proposed System we will provide vast Options For Plants like Placements , in Placement For Bedroom , kitchen , Office , desk ,temple etc . Occasions , Like birthday , anniversary , environment day etc , Festivals .

2 : Review of product (plant) is available here (oxygen release level , its type etc .

3: we will provide many types vases (pot/planters) like metallic planters , ART planters , wooden planters , Ceramic planters , self watering pots .

4 : in proposed system we will also include Gardening tool section , where plantation tools are available .

5 : we will also include section for fertilizers and seeds .

Modules

Customer Management

Modules

Products Management

Functionalities

3 : Customer Rating Section