PROJECT REPORT

ON

PlantO

BY **ARYAN RAJ (1900900100028)**

Submitted to the Department of Computer Science and Engineering in partial fulfillment of the requirements of the degree of Bachelor of Technology in

Computer Science and Engineering

Under the Guidance of

Prof. Shiva Gupta



Department of Computer Science and Engineering IEC College of Engineering and Technology, Greater Noida, U.P.-



Dr. A. P. J. Abdul Kalam Technical University, Lucknow (UP) India

Declaration

We hereby declare that the project report entitled "PlantO" submitted by me to IEC College

of Engineering & Technology, Greater Noida in partial fulfillment of the requirement for

the award of the degree of B. Tech in Computer Science and Engineering is a record of

bonafide project work carried out by my own efforts and fact arrived at my observation under

the guidance of **Prof. Shiva Gupta** in the CSE/IT Department.

We further declare that the work reported in this project has not been submitted, either in

part or in full, for the award of any other degree or diploma in this institute or any other

institute or university.

Signature:

Name: Aryan Raj

Roll No.: 1900900100028

Date:

CERTIFICATE

This is to certify that Project Report entitled "PlantO" which is submitted by Aryan Raj (1900900100028), partial fulfillment of the requirement for the award of degree B. Tech. in Computer Science and Engineering from Dr. A. P. J. Abdul Kalam Technical University, Lucknow is a record of the candidate's own work carried out by him/her under my/our supervision. The matter embodied in this thesis is original and has not been submitted for the award of any other degree.

Date:	Signature of Supervisor

Mrs. shiva Gupta Assistant Professor Dept. of CSE/IT IEC-CET, Gr. Noida

ACKNOWLEDGEMENT

We would sincerely like to thank our project guide, project supervisor, project committee and the teachers of IEC College of Engineering and Technology, Greater Noida, for their help and support during the project. Despite their busy schedules, they took time out and explained to us the various aspects of the working of technological know-how. It gives us a great sense of pleasure to present the report of the B. Tech Project undertaken during B. Tech. Final Year. We would sincerely like to thank Mrs. Shiva Gupta, Assistant Professor, CSE/IT Dept., Prof.(Dr.) Bibhuti Sharan, Dean Academics and HoD-CSE/IT and other teachers who were instrumental in arranging the project labs at IEC College of Engineering and Technology, Greater Noida. Without their help and guidance the project could not have materialized. We express our deep sense of gratitude to the HOD, CSE/IT for giving us such a great opportunity. Last but not the least, we acknowledge our friends for their contribution in the completion of the project.

ABSTRACT

Our project is about a nursery plant management system. The nursery includes supply & maintenance of plants which helps our environment to become pollution free. Nursery mainly includes following section:-

- Plants
- report
- Add plants
- Billing

•

Plants need extensive care and maintenance for their good growth and yield which is provided by nursery. Though very few people know about nurseries, now a day's nursery is becoming an important designation. Due to software management all the important procedures such as watering, fertilization, cutting will get easier and more accurate than that of manual labor. Also we provide a plant library which provides information about plants, their maintenance, plantation etc. So it can be referred to easily.

Plants play an important role in keeping environment pollution free and for our good health.

Therefore, a well managed nursery will give us more advantage in this purpose.

TABLE OF CONTENT

TITLE PAGE	i
DECLARATION	ii
CERTIFICATION	iii
ACKNOWLEDGEMENT	iv
ABSTRACT	v
TABLE OF CONTENT	vi
LIST OF FIGURES	vii
LIST OF TABLES	viii
LIST OF ABBREVIATIONS	ix

INDEX

SR. NO.	TOPIC
1.	INTRODUCTION.
2.	SCOPE OF THE SYSTEM.
3.	NEED OF THE SYSTEM.
4.	PRELIMINARY INVESTIGATION.
5.	FEASIBILITY STUDY.
6.	H/W & S/W REQUIREMENT.
7.	ENTITY RELATIONSHIP DIAGRAM.
8.	DATA FLOW DIAGRAM.
9.	USER INTERFACE DESIGN. > SCREEN DESIGN. > REPORT.
10.	LIMITATIONS & FUTURE ENHANCEMENT OF SYSTEM.
11.	BIBLIOGRAPHY.

INTRODUCTION

Our project is about a nursery management system. The nursery includes supply & maintenance of plants which helps our environment to become pollution free. Nursery mainly includes following section:-

- Plants
- Lawn grass
- Water Lilies
- Billing

Plants need extensive care and maintenance for their good growth and yield which is provided by nursery. Though very few people know about nurseries, now a day's nursery is becoming an important designation.

Due to software management all the important procedures such as watering, fertilization, cutting will get easier and more accurate than that of manual labor. Also we provide a plant library which provides information about plants, their maintenance, plantation etc. So it can be referred to easily.

Plants play an important role in keeping environment pollution free and for our good health.

Therefore, a well managed nursery will give us more advantage in this purpose.

SCOPE OF THE SYSTEM

The Scope of the Purchase & Sale control system is limited only for Om Sai Nursery.

This system helps the system for easy working.

This system is very user-friendly and makes the limited Interface of the user and hence makes the overall system Efficient and fast. This system generates various reports such as, purchase report & stock report. It is totally a Menudriven system.

NEED OF SYSTEM

•	Using a	a computerized	system,	time accuracy	factors a	are considerably
chang	ed.					

- To make the existing system user friendly.
- To reduce redundancy of data.

PRELIMINARY INVESTIGATION

Preliminary Investigation implies which methods are applied to make research of the company & by which means information is collected regarding the product. Generally there are three methods for collecting the information of any instruction.

These are:-

- 1) Interview
- 2) Questionnaires
- 3) Observations

All the methods are equally important. As far as this project is concerned & has to collect all the information by following methods.

1) Interview:-

Interviews are a nice method to communicate with people. We can understand views, attributes & members to get information about the management system & facilities provided to staff & other attendance.

2) Questionnaires:-

I have asked following questions:-

- What problems occur in the existing attendance system?
- What type of system is used to collect the data?
- Is there any facility of recording overtime?
- Which types of plants are in the nursery?
- How many costs of each plant?
- How do you care for and maintain the plant for their good growth?
- How do you apply the procedure like watering & fertilization etc. on plants?

3) Observations:-

I observed that the result preparation method is for preparing the results of students.

This method is very lengthy. I also observed that there are more chances of mistakes because of manual processes. This process is time consuming.

FEASIBILITY STUDY

The feasibility of the system can be examined under heads viz. Technical feasibility, Economical feasibility & Operational feasibility.

1) Technical Feasibility:-

Technical feasibility plays an important role in feasibility study.

The study reveals all the technical aspects & its corresponding results.

2) Economical feasibility:-

Economical feasibility is one of the most important aspects to be considered. This study reveals all the benefits & drawbacks in implementation of a system. The total cost incurred for the development & implementation will be least as a computer.

3) Operational Feasibility:-

Operational feasibility is the important part of feasibility study. We consider the capabilities of the end user that can easily handle the computer. In our projects JAVA used GUI, due to which users can easily handle it.

HARDWARE & SOFTWARE REQUIREMENT:-

1) Hardware Requirement:-

Processor: Intel Processor, AMD Processor

HDD : Min 4 GB.

RAM: Min 256 MB RAM.

2) Software requirement:-

Operating system: Windows XP or Above.

Front End: JAVA (1.4 or higher)

Back End: Microsoft ACCESS.

E-R DIAGRAM

Symbol Used In E-R Diagram:-

The E-R model uses few basic concepts in producing an E-R diagram.

These concepts are:-

- 1) Entity
- 2) Relationship
- 3) Attribute
- 1) Entity:

An entity is an object or anything, which is distinguishable from objects.

2) Relationship:-

A relationship is a meaningful association, a linking or connection between entities.

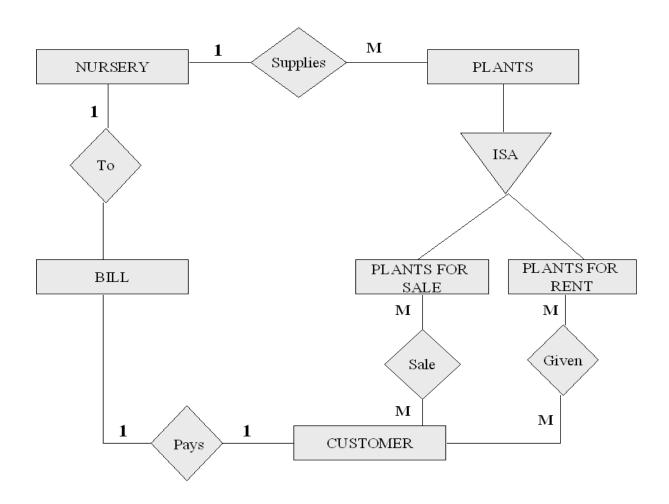
3) Attribute:-

An attribute is any aspect quality or description of either an entity or relationship.

SYMBOL E-R DIAGRAM

SYMBOL	SYMBOL NAME	REPRESENTS
	Rectangle	Entity Set
	Ellipse	Attribute
	Diamond	Relationship Set
	Line	Links Between Two Entity Set

$\underline{\mathcal{E}}.\mathcal{R}.\mathcal{D}$



E R DIAGRAM FOR NURSERY MANAGEMENT SYSTEM

DATA FLOW DIAGRAM:

Data flow diagram is used to represent data & processes that manipulate it. The data flow diagram enables the software engineer to develop the model of information domain & functional domain at same time. As the DFD is refined into greater levels of detail, the analyst performs implicit functional decomposition of the system.

A data flow Diagram (DFD) is one of the popular graphical tools used to depict the flow of data through a system. DFD shows the processes, data stores, data flow & the source & destination entries.

A few simple guidelines can aid immeasurably during the derivation of a data flow diagram.

- 1. The level 0 DFD should depict the system as a single bubble.
- 2. The primary input & output should be carefully noted.
- 3. Refinement should being by isolating candidate processes, data object & Stores to be represented at the next level.
- 4. All arrows & bubbles should be labeled with meaningful names.
- 5. Information flow continuity must be maintained from level to level.

 One bubble at a time should be refined.

TYPES OF DFD'S

There are two types of DFD'S as follows:-

1) Physical DFD'S
2) Logical DFD'S

1) Physical DFD'S:-

Physical DFD'S depict the physical elements like people, reports, documents, departments etc. Physical DFD'S shows an implementation dependent view of the system.

2) Logical DFD'S:-

Logical DFD'S depict the logical elements like data process & events those are more abstract than physical DFD'S. Logical DFD'S shows an implementation independent view of the system.

CONTEXT DIAGRAM

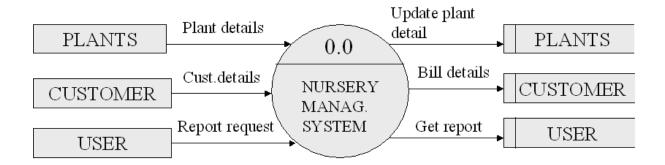
The top level diagram is called a 'context diagram'. Context diagrams contain a single process, but it plays a very important role in studying the current system.

Context diagram is constructed to show the highest level model of the system. This is the most general or broadcast picture of the current system. They are to represent the scope or boundaries of the system. Their purpose is identifying what is to include in the system under study.

Symbol Used for Data Flow Diagram

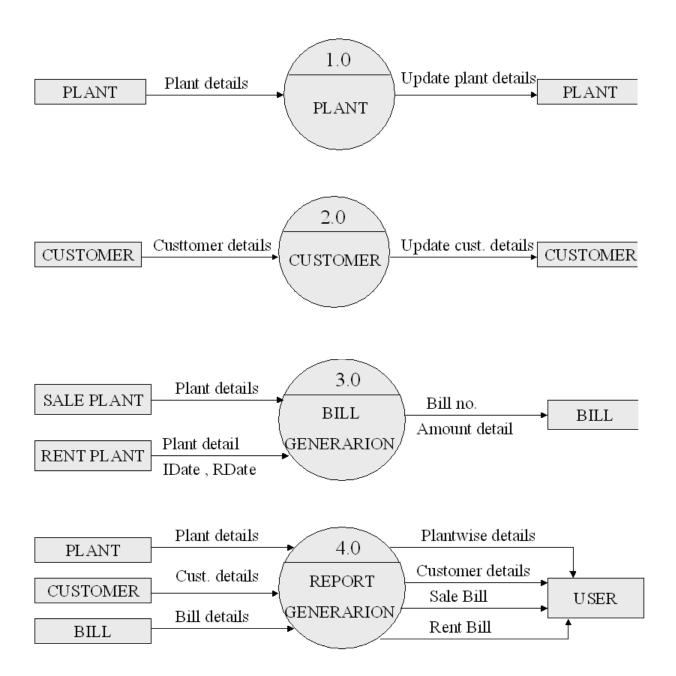
SYMBOL	SYMBOL NAME	REPRESENTS
	External Entity	A Source or destination of data which is an external system.
→	Data Flow	It is a packet of data. It may be in the form of a document, letter, telephone call etc.
	Process	Here flow of data transferred.
	Data Store	Any store data but with no difference to the physical method of storing.

CONTEXT LEVEL DIAGRAM



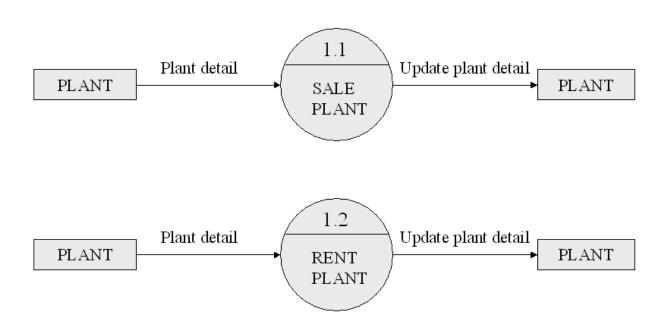
CONTEXT LEVEL DFD FOR NURSERY MANAGEMENT SYSTEM

FIRST LEVEL DFD



FIRST LEVEL DFD FOR NURSERY MANAGEMENT SYSTEM

SECOND LEVEL DFD



SECOND LEVEL DFD FOR NURSERY MANAGEMENT SYSTEM

DATA DICTIONARY:

2/(1/(22012011/(1())			
NO.	NAME	TYPE	DESCRIPTION
1	o_no	Number	Course number
2	S_name	Text	Saler name
3	p_category	Text	Plant Category
4	p_date	Date/time	Purchase date
5	p_name	Text	Plant name
6	p_qty	Number	Plant quantity
7	p_rate	Number	Plant rate

PURCHASE TABLE

PLANT TABLE

NO.	NAME	TYPE	DESCRIPTION	
1	P_no (pk)	Number	Plant number	
2	P_name	Text	Plant name	
3	P_category	Text	Plant category	
4	P_rate	Number	Plant rate	

NO.	NAME	ТҮРЕ	DESCRIPTION
1	p_no (pk)	Number	Plant number
2	p_name	Text	Plant name
3	p_category	Text	Plant category
4	date	Date/time	date

STOCK TABLE

CUSTOMER RECEIVE TABLE

NO.	NAME	TYPE	DESCRIPTION
1	c_no (pk)	Number	Customer number
2	c_name	Text	Customer name
3	c_addr	Text	Customer address
4	c_amt	Number	Customer amount
5	R_date	Date/time	Received date

NO.	NAME	TYPE	DESCRIPTION
1	c_no (pk)	Number	Customer number
2	c_name	Text	Customer name
3	c_addr	Text	Customer address
4	C_amt	Number	Amount for customer
5	i_date	Date/Time	Issue date

CUSTOMER_ISSUE TABLE

NO.	NAME	TYPE	DESCRIPTION
1	P_no	Number	Plant number
2	P_name	Text	Plant name
3	P_categary	Text	Plant type
4	P_stock	Text	Stock detail

DETAIL-STOCK TABLE

BILL-FOR SALE TABLE

NO.	NAME	TYPE	DESCRIPTION
1	b_no	Number	Bill number
2	date	Date/time	Date for bill
3	c_no	Number	Customer number
4	c_name	Text	Customer name
5	p_qty	Number	Plant quantity
6	p_name	Text	Plant name
7	p_amt	Number	Plant amount
8	p_total	Number	Plant total

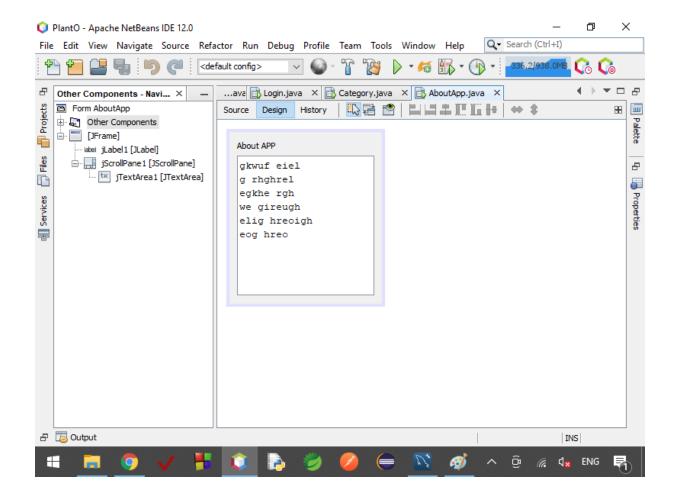


fig:About App



Fig: Login Page

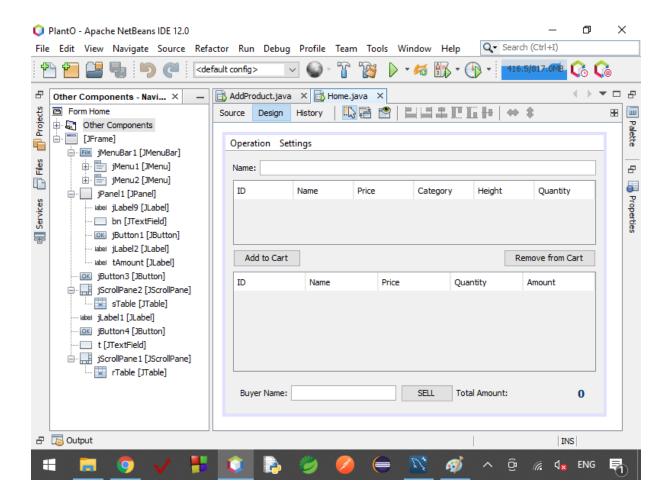


Fig: Home Page

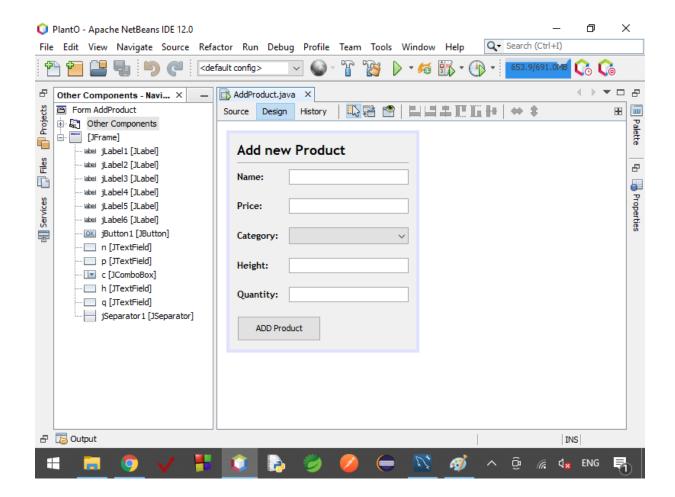


Fig: cart product

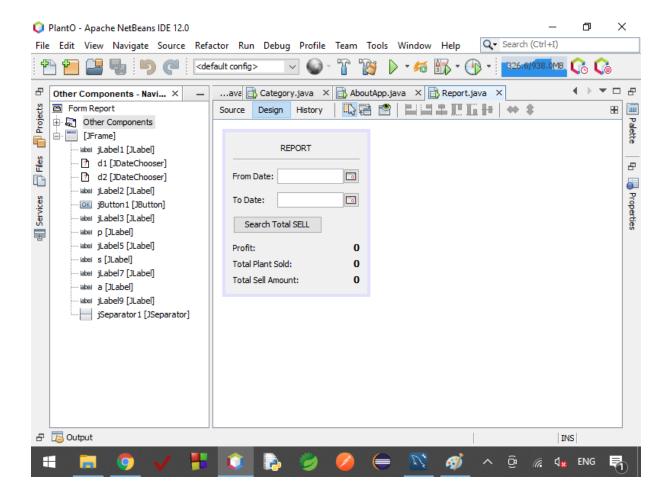
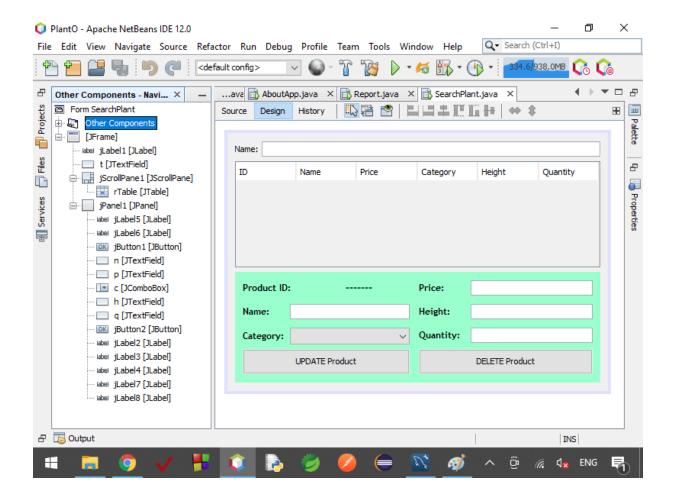


Fig: Report page



LIMITATIONS & FUTURE ENHANCEMENTS OF THE SYSTEM

LIMITATIONS:

The most important limitation of the existing system is its Manual system.

Drawbacks of the manual system:

- 1. Time required for validations and updating is more.
- 2. Accuracy is less and Incomplete also.
- 3. Checking stock is difficult.
- 4. Repetition of work is going on.

FUTURE ENHANCEMENT:

The computerized "purchase, sale & stock control system" is made with the intention to make it easy to maintain the records and minimize the drawbacks of the manual System.

Advantages of computerized system over Manual system are :

- 1. Computerized systems are completely menu driven systems, thus users can operate easily.
- 2. Time required is very less to make and search the records.
- 3. Computerized system generates various online records.
- 4. It reduces the data inconsistency and redundancy
- 5. Computerized system is very helpful to display all the records.

BIBLIOGRAPHY

Before and at the time of developing the project following books ar	·e
feared which gear us seem important guidelines for designing and	
developing the project and project reports.	

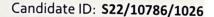
Conclusion:

This system helps the system for easy working.

This system is very user-friendly and makes the limited Interface of the user and hence makes the overall system Efficient and fast. This system generates various reports such as, purchase report & stock report. It is totally the Menu-driven system.

Reference Books:

- ➤ The complete Reference Herbert Schildt,Patrick Naughton.
- Java 6 Programming Black Book Kogent.
- Core Java Vol.II Advanced Features Cay Horstmann, Gary Cornell.
- Database System Concept-Sudarshan & Silberschatz & korth
- Software Engineering
- A Practitioner's Approach





Certificate of Completion

Java Core Technology incapp incapp incapp incapp incapp incapp incapp Program:

Period : 22 Aug 2022 - 22 Oct 2022 app Incapp Incapp Incapp Incapp Incapp Incapp Incapp

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This is to certify that Aryan Raj has successfully completed Java Core Technology Program on above dates.

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He was sincere and hard working during the program. We wish good luck for his near future. Incapp inca

appirican Rahul Chauhan incapp incar

(Program Co-ordinator)



