# INFORMATION SYSTEM SALES OF INDOOR AND OUTDOOR ORNAMENTAL PLANTS-BASED ONLINE

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**Abstract**

Ornamental plants have fairly high commercial value and much sought after by various circles. The prospect is in the business of ornamental plants can be said very brilliant and profitable. Where is in the business of ornamental plants can bring about advantages not the least. The business struggled with ornamental plants can have very favorable prospects for the long term. There are an awful lot of various kinds of ornamental plants that we can choose to use as ornaments to beautify residential home. The ornamental plants can be used as indoor ornamental plants placed in homes or can also be used as outdoor ornamental plants grown in the garden. Ornamental plants while more popular community-wide information system for ornamental plant however is currently designed specifically and not many people who know the information on price and specs or type of indoor and outdoor ornamental plants so that the need for sales information system of indoor and outdoor ornamental plants-based online. With the sales information system of Indoor and Outdoor ornamental plants-based online is expected to facilitate the customers, business processes that occur in the company's units, unit – units that exist within the system a functioning production units as the unit working on/produce ornamental plants. With the utilization of the system marketing media, promoting, finding new customers, the sales process, recapitulation payment of ornamental plants, control the conditions of stock products, development and delivery of products to customers including convincing the product gets to the customer

Key words: ornamental plants, information systems

## 1.0. INTRODUCTION

Ornamental plants is an option that we can use as a decoration to beautify residential home. The ornamental plants you can make indoor ornamental plants placed in homes or can also be used as outdoor ornamental plants grown in the home garden. Ornamental plants are classified over the ornamental plants flower and ornamental plant leaves, the selection of ornamental plants adapted to the tastes and match the design and tastes. Ornamental plants have fairly high commercial value and much sought after by various circles such as orchids, chrysanthemums, roses, carnations, gladiolus, tuberose and jasmine, evening aster. The business of growing ornamental plants with more demand for interest especially in the big city. The quality of ornamental plants depend on the appearance and

durability of the freshness, quality flowers with a very prima have selling points higher, accordingly to maintain quality to always primed should pay attention to several factors that includes a storage medium. To build information systems Indoor and Outdoor ornamental plants online-based first analyze the needs of the information system of Indoor and Outdoor ornamental plants-based online with doing identify other needs among them are use case, events and things. Identification of needs is necessary to design the modeling of the system as a whole in the process of future system development easier and well-documented, so that in the event of changes to or mistakes in process design can easily be done repair

## 1.2 Outline of the Problem

How to build information systems sales Indoor and Outdoor ornamental plants-based Online

## 1.3. limitation Problem
Scope of identification – identification of the needs of the sales information system of Indoor and Outdoor ornamental plants-based online is limited to the definition of customers, business processes that occur in the company's units. Units that exist in this system are:

1. Production units which serve as units that executed or produce ornamental plants.
2. Marketing and Promotion Unit that serves to market, promote, search for new customers, process sales, recapitulate payment of ornamental plants.
3. Logistics Unit, which serves to control the condition of stock products and delivery of products to customers including convincing the product gets to the customer.
4. other units unit – including the associated user or interested parties in providing the needed information for the development of the system

## 1.4. Objectives and Benefits Research

1. The purpose of this research is as a medium of delivery of information as well as media marketing and promotions for new customers or lovers of Indoor and Outdoor ornamental plants on ornamental plants
2. To know the trend and ethnic plant ornamental indoor and outdoor consumer interest as materials reference the production process to the fore

## 2.0. THE CORNERSTONE OF THE THEORY
## 2.1 System development methodology
Identification Of Use – Case
To identify use-cases of a company can be done via 3 technical approach that focuses on user/actor and user goals, namely:
1. Make a list of all users and what they expect from a system to assist in performing their duties
2. Observe the system that has been running and make a list of all the functions that are contained in the system,
3. Interview all users to obtain an overview of the results obtained using that want that system. (Satzinger, 2007)

Use – Case identified in the information system of indoor and outdoor ornamental plants-based online is as follows:

### a. Customer
View information of the availability of the ornamental plant by looking at the catalog of indoor and outdoor ornamental plants that have been provided by the system starting from the type of flower, flower color, the advantages of the ornamental plants, the price offered by the company, facilities obtained by purchasing these houseplants until promotions offered at this time,

Order the ornamental plants in accordance with the desired specifications. Find out how payment transaction booking indoor and outdoor ornamental plants. Knowing the time it takes for delivery of ornamental plants

### b. Production Staff
Take note of the amount of the resulting products as well as Updating or renewing the data stock ornamental plants belonging to the firm

### c. The Head Of Production
The production received a report from the production staff used as the basis of decision-making in whatever ornamental plant products that must be added and subtracted.

### d. Marketing Staff
Create a new catalog of ornamental plants, ornamental plants catalog update, check the Availability stock ornamental plant products as well as market products

### e. Promotional Staff
Compose promotional materials, conduct promotion

### f. Sales Staff
Transact sales with the customer as well as updating the status of product sales of indoor and outdoor ornamental plants. See fluctuations in sales per day-monthly or week. Create sales reports, create decorative plant Booking Report

### g. Accounting Staff
Check the status of the transfer payments (Internet Banking). Update the payment Status. Creating the financial statements

### h. Head Of Marketing Or Promotional
Receive reports of marketing. Receive promotional Reports. Receive sales reports. Accept financial statements.

### i. Bank
Provide information plant purchase transaction made via ATM transactions, credit card and internet banking to ornamental plants

### j. Logistics Staff
View and control the amount of stock of ornamental plants. See the record order bookings will be sent to the customer. Noting the number of ornamental plant products will be sent. Do good ornamental plants shipping directly to customers or through the expedition. Make sure that the order has been sent has been fulfilled by the company has been up to the customer without defect or damaged. Noting the number of products that have been sent in the form of a check list. See record any ornamental plants product returned by the customer it can happen because of the ornamental plants wilted, damaged or do not comply with the order with a check list.

### k. head of Logistics
Receiving a delivery report as a basis of reference plants the fulfillment of an order.

### l. The Director
The production received a report from the head of the production about the current production of reports as well as the decision to come regarding the addition or reduction of production. Receive reports of marketing, promotion or sales and financial condition of the heads of marketing or promotion. Receiving a delivery report of the head of the logistics of ornamental plants. Receiving a delivery report of the head of the logistics of the ornamental plants .Decide the suitability of a product price given to customers

## 3.0. DESIGN
### 3.1. DESIGN ERD ( Entity Relational Diagram)

ERD describes the relationship between relationship diagrams, information systems In Indoor and Outdoor ornamental plants-based online consists of eight entities, relationship between entities can be seen in Figure 1
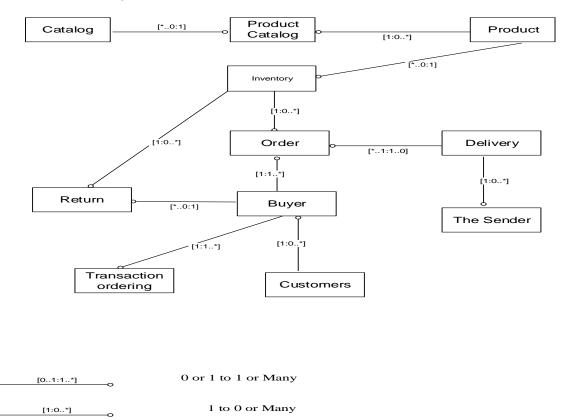


Figure 1. ERD Sales information system of Indoor and Outdoor ornamental plants-based Online

**Class Catalog {**
       Attribute string IdCatalog
       Attribute string Season
       Attribute string Years
       Attribute string Description
       Attribute string effectivedate
       Attribute string End Date
       Relationship set <ProdukKatalog> Contains1
Inverse: ProdukKatalog: AppearsIn1
}
Class Product {
The product Id string attribute
Vendor string attribute
Attribute string JnsKelamin
Attribute string Description
Relationship sets < Product Catalog > AppearsIn2
Inverse: ProdukKatalog: Contains2
Relationship set <Inventory> Contains3
Inverse Inventory:: AppearsIn3

}
Class Product {Catalog
Attribute string Prices
Special Haarga string attribute
Relationship AppearsIn1 Catalog
Inverse Catalogs:: Contains1
Product Relationship AppearsIn2
Inverse Of The Products:: Contains2
}
Class {Inventory
Attribute string IdInventory
Attribute string Size
Attribute string Color
Atrribute string Options
Inventory number of the string attribute
Average cost of string attribute
Attribute string Reorder number
Product Relationship AppearsIn3
Inverse Of The Products:: Contains3
Relationship sets < Goods > Contains4
Inverse Return Of Goods:: AppearsIn4
Relationship sets < Booking Goods > Contains5
The Inverse Ordering Goods:: AppearsIn5
}

Class {Goods Returns
Attribute string Amount
Attribute string Prices
Attribute string Reason
Attribute string Condition
Attribute string Sale
Relationship Inventory AppearsIn4
Inverse Inventory:: Contains4
Relationship Of Booking AppearsIn7
Inverse: Booking: Contains7
}
Class order {
Attribute string Amount
Attribute string Prices
Attribute string Back Order Status
Relationship Inventory AppearsIn5
Inverse Inventory:: Contains5
Relationship

{Sender's Class
Attribute string Sender Id
String attribute Name
The address of the string attribute
Attribute string Name Contact
Attribute string NoTelp
Relationship set <Pengiriman> Contains6
Inverse: AppearsIn6 Shipping:
}

Class {Delivery
String attribute No Shipping

Attribute string Date Delivery
Attribute string JamPengiriman
Attribute string shipping costs
Attribute string Date of arrival
Arrival hour string Attrbute
Relationship Of The Sender AppearsIn6
Inverse: Sender: Contains6
Relationship Item Reservations AppearsIn9
The Inverse Ordering Goods:: Contains9
}

Class {Booking
Attribute string Id Reservation
Attribute string Date of booking
Attribute string Kd Priority
Attribute string Delivery
Attribute string Tax
String Attrbute Grand Total
Relationship sets < Goods > Contains7
Inverse Return Of Goods:: AppearsIn7
Customer Relationship AppearsIn8
Inverse: Customers: Contains8
Relationship sets < Booking Goods > Contains10
The Inverse Ordering Goods:: AppearsIn10
Relationship sets < Transaction Booking > Contains11
Inverse Transaction Booking:: AppearsIn11
}

Class OrderViaWeb extends Booking {
Attribute string Email address
Attribute Reply Method string
}

Class OrderViaTelp Extends Booking {
Attribute string Operator Tel
Attribute string Hours Start Call
Attribute string LamaPanggilan
}

Class Order Via Mail Reservation Extends {
Attribute string Date of acceptance
Attribute string Officers
}

Class Customer {
Attribute string Account
String attribute Name
Attribute string billing address
Attribute string shipping address
Attribute string NoTelp
Relationship set <Pemesanan> Contains8
Inverse: Booking: AppearsIn8
}

Booking Transaction {Class
Attribute string Date

String attribute Type Transaction
Attribute string Amount
Attribute string method of payment
Relationship Of Booking AppearsIn11
Inverse: Booking: Contains11
}

## 3.2 The Design Of Use Case Diagrams

Integrated Service System on ornamental plant consists of four subsystems
1.  Subsystem: Booking Entry consists of ornamental plants See product availability ornamental plants. Update Reservations booking Update houseplants house plants. Make a booking report overall ornamental plants. Create transaction reports of all ornamental plants overall
2.  Subsystem : Customer Maintenance ornamental plants, consisting of provides information on the catalog make a report of activities potentially customers Customer Data Update. Distribution of promotional packages. Make adjustments to the payment of ornamental plants. Create reports adjustments to customer
3.  Subsystem: Fulfillment of booking ornamental plants, consisting of see the booking status Note down the order fulfillment of ornamental plants, Noting the houseplants back Noting the reversion of ornamental plants, Report the fulfillment of ornamental plants
4.  Subsystem: maintenance Catalogue consisting of the process, Update Catalog of ornamental plants, Create a promotion package, Create a new catalog, monitor information of ornamental plants, Monitor information of ornamental plants
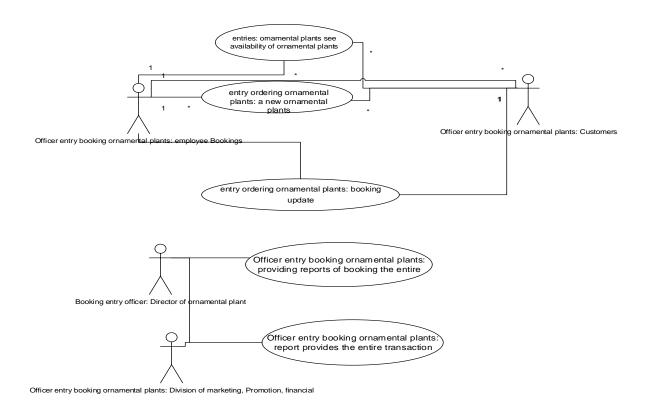


Figure 3 use case Subsystem: Input Booking indoor and outdoor ornamental plants
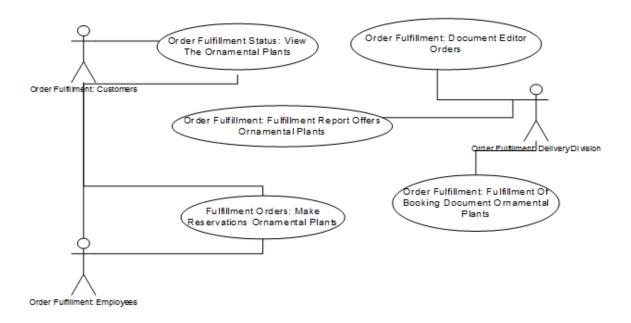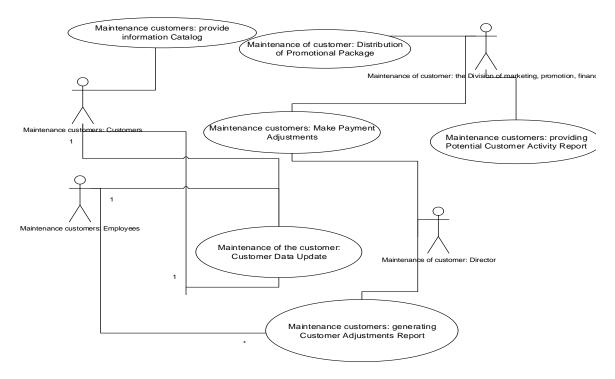
Figure 4 Subsystem use case: the fulfillment of Booking of indoor and outdoor ornamental plants



## 4.0. CONCLUSION

Implementation of information systems design sales Indoor and Outdoor ornamental plants-based online it can improve the quality of service and ease of transactions sales of ornamental plants include:

1. Stock ornamental plants always accurate so that companies know in detail the ornamental plants and stock in a quick management can make decisions if the

stock is less or more, so customers are always satisfied with the service on the system

2. Customers can order by the number of large scale because between branches or business partners can coordinate with the precise and quick
3. Customers are satisfied because houseplants are booked as promoted.
4. Customers can Transact a purchase payment and booking of ornamental plants is not just done with cash.
5. Report of the Booking or Buying ornamental plants either perminggu or monthly can be done very fast, accurate, relevant

## 5.0. SUGGESTIONS

Based on the conclusions above suggest that the existence of this information system can optimize the information system in order to find out the level of production as well as the interest of consumers for information as well as system development

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