

# SHIP MANAGEMENT SYSTEM

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**Abstract** - This project is aimed at developing a ship management system which can streamline the administration of a ship based transport company. It's often felt that the ship management is a difficult task. It involves many administrative work and co-ordination. This project is to develop and deploy a web based application so that the different aspects of a ship based transport company administration become easy to handle.

## 1. INTRODUCTION

Ship Management system is essential to many facets of modern life. Moving perishable goods from one side of the world to the other would not be possible without air transport. However, the demand for efficient supply chains is pushing other modes of transport to improve their lead times and compete with cargo on that front. The air cargo industry continues to face challenges of sustainability, profitability and customer satisfaction. The industry has been slow to adapt to an increasingly electronic world that demands more transparency, speed and efficiency. Global implementation of electronic air waybill to date is less than 50%. Each day millions of pieces of paper air waybill are exchanged across the supply chain increasing the chance of error, reducing the efficiency of the process and causing customers and partners numerous pain points and poor quality

of service. Also, criminal activities such as smuggling, theft and mishandled shipment..

## 2. OVERVIEW OF THE SYSTEM

### Existing System:

- This existing system is not providing secure registration and profile management of all the users properly.
- This manual system gives us very less security for saving data and some data may be lost due to mismanagement.
- The System not providing any on line interface ,so the paper work is taking a lot of time to maintain and communicate. Which is hence very laborious and expensive.
- This system is not also providing any report generation facilities ,for user specific requirements.
- The system is not also providing any online facility to reserve their bookings for cargo shipments and also for passenger voyages.
- This system has no facilities to store different stock details, maintenance details and bill details which can be accessed instantly as per requirement.
- The system is not maintaining an user hierarchy.
- The system is giving only less memory usage for the users.

## Proposed System:

The development of this new system contains the following activities, which try to automate the entire process keeping in the view of database integration approach.

- This system maintains user's personal, address, and contact details.
- User friendliness is provided in the application with various controls provided by system rich user interface.
- This system makes the overall project management much easier and flexible.
- Various classes have been used for maintain the details of all the users and catalog.
- Authentication is provided for this application only registered users can access.
- The user's information files can be stored in Centralized database which can be maintained by the system.
- This system is providing more memory for the users to maintain data.
- This system is providing accessibility control to data with respect to users.
- This system is providing on line facilities to book both cargo ships and passenger ships for voyages.
- This is providing facilities to store different type of administrative data through online like ship details, ship parts stock, employee details, ship reservation details, purchase details and different pay bill details e t c.

- This system also providing facilities to access the above data to generate requirement specific report.

## Number of Modules:

The system after careful analysis has been identified to be presented with the following modules:

1. Authentication and Security Module
2. Admin Module
3. Employee Module.
4. User Module.
5. Ship Module.
6. Account Module.
7. Reports Module.

## 3.SYSTEM DESIGN

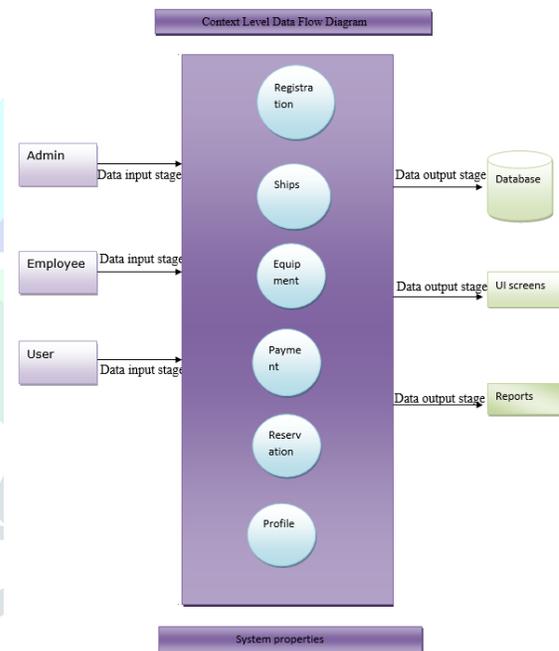


Fig 3.1: DFD Diagram

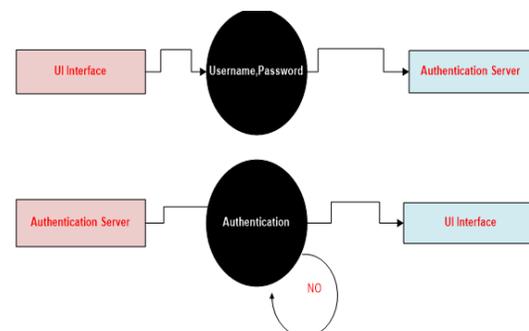


Fig 3.2: Authentication Data Flow Diagram

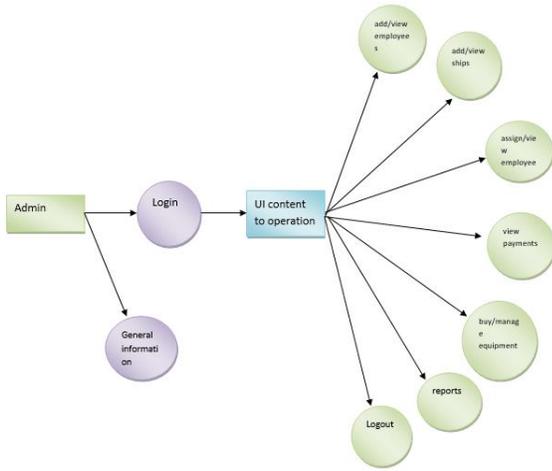


Fig 3.3: Admin DFD

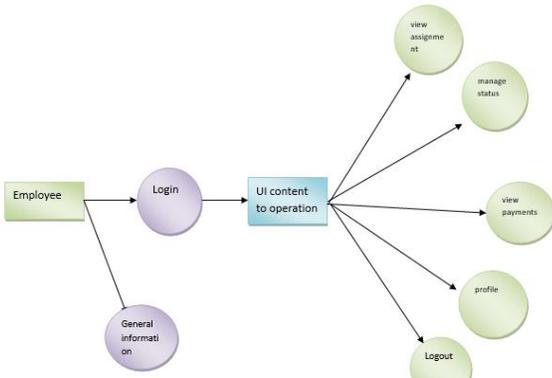


Fig 3.4: Employee DFD

4. OUTPUT SCREEN SHOTS



Fig 4.1: Home Page



Fig 4.2: Login Form Page



Fig 4.3: Admin Home Page



Fig 4.4 Report Page

5. CONCLUSION AND FUTURE ENHANCEMENT

It has been a great pleasure for me to work on this Ship Management System project. It also provides knowledge about the latest technology used in developing web enabled application and client server technology that will be great demand in future. This will provide better opportunities and

guidance in future in developing projects independently.

### **BENEFITS:**

The project is identified by the merits of the system offered to the user. The merits of this project are as follows: -

- It's a web-enabled project.
- This project offers user to enter the data through simple and interactive forms. This is very helpful for the client to enter the desired information through so much simplicity.
- The user is mainly more concerned about the validity of the data, whatever he is entering. There are checks on every stages of any new creation, data entry or updating so that the user cannot enter the invalid data, which can create problems at later date.
- Sometimes the user finds in the later stages of using project that he needs to update some of the information that he entered earlier. There are options for him by which he can update the records. Moreover there is restriction for his that he cannot change the primary data field. This keeps the validity of the data to longer extent.
- User is provided the option of monitoring the records he entered earlier. He can see the desired records with the variety of options provided by him.
- From every part of the project the user is provided with the links through framing so that he can go from one option of the project to other as per the requirement. This is bound to be simple and very friendly as per the user is concerned. That is, we can sat that the project is user friendly which is one of the primary concerns of any good project.
- Data storage and retrieval will become faster and easier to maintain because data is stored in a systematic manner and in a single database.
- Decision making process would be greatly enhanced because of faster processing of information since data collection from

information available on computer takes much less time then manual system.

- Allocating of sample results becomes much faster because at a time the user can see the records of last years.
- Easier and faster data transfer through latest technology associated with the computer and communication.
- Through these features it will increase the efficiency, accuracy and transparency,

### **LIMITATIONS:**

The size of the database increases day-by-day, increasing the load on the database back up and data maintenance activity.

Training for simple computer operations is necessary for the users working on the system.

### **6. REFERENCES**

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