

A
PROJECT ON

“Airport Management & Organisation System”

SUBMITTED TO
SAVITRIBAI PHULE PUNE UNIVERSITY

UNDER THE GUIDANCE OF
PROF. Priyanka Jain

SUBMITTED BY
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MAHARASHTRA EDUCATION SOCIETY'S GARWARE COLLEGE
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KARVE ROAD, PUNE- 411004
2019 - 2020



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GARWARE COLLEGE OF COMMERCE
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CERTIFICATE

This is to certify that **MR. VISHWANATH SOPAN TAWARE** has successfully completed the Project entitled “**Airport Management & Organisation System**” and has submitted the same to the satisfaction during the academic year 2019 – 2020 towards partial fulfilment of the degree ‘Bachelor of Business Administration - Computer Application’ of Savitribai Phule University of Pune.

(PROJECT GUIDE)

(BBA-CA IN CHARGE)

(PRINCIPAL)

(INTERNAL EXAMINER)

(EXTERNAL EXAMINER)

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ACKNOWLEDGEMENT

A successful project is the result of a good team-work which consists of not only the partners who put in their long and hard work but also those who guided them. Indeed, a true saying.

I would like to express my sincere and deep gratitude to my internal project guide **Mrs. Priyanka Jain** for her valuable guidance and suggestions.

I am also thankful to all the faculty members who supported me throughout the completion of my Project.

Last but not least, we express our gratitude to the almighty, without whose blessing nothing is possible.

SYNOPSIS

<i>1. Tours Project Title :</i>	A.O.M.S (Airport Organisation & Management System)
<i>2. Name of Group Member</i>	Vishwanath Sopan Taware
<i>3. Technology</i>	Front End: VB 6.0 BackEnd: Ms Access
<i>4. Objective/Aim</i>	<ul style="list-style-type: none">• <i>Making a system wherein the airport management system is handled much easily</i>• <i>Reducing the amount of usage on the day to day functioning of the airport.</i>• <i>Proper flow of data in the system is maintained and no data redundancy is observed in the ERP System.</i>• <i>By means of this airport management software, users are able to control the company activities, connecting the application to other systems on airports such as booking ... and external solutions (airlines, air navigation, etc.)..</i>• <i>A.O.M.S covers these areas:</i><ol style="list-style-type: none"><i>1. AODB (Airport Operational Database),</i><i>2. RMS (Resources Management System),</i><i>3. Billing (Billing)</i>

	4. <i>Commercial</i>
5. <i>Introduction</i>	<i>A.O.M.S is the ERP software for operations, resources and airport management based on Visual Basic. This solution includes a set of integrated modules into a unique ERP software.</i>
6. <i>Scope</i>	<ul style="list-style-type: none"> <i>A.O.M.S is an integrated software developed of airport operating companies / government. The main aim of this project is to help the airport operating companies / government to manage their customers, flight operating companies and customer. It makes all operations of the airport easy and accurate.</i> <i>The stand-alone platform makes airport management easy by handling requests and providing services for the customers. Different modules have been incorporated in this project to handle different parts and sectors of the airport management field.</i>
7. <i>Modules</i>	1) <i>Customer Portal</i> 2) <i>Ticket Booking Portal</i> 3) <i>Boarding Pass Counter Portal</i>

	4) <i>Airport Operations Portal</i>
	5) <i>ATC Portal</i>
	6) <i>Ground Operations</i>

ABSTRACT

The Airport management system is a stand-alone based application and maintains a centralized repository of all related information. The objective of this project is to develop a system that automates the processes and activities of a airport and customer details. The purpose is to design a system using which one can perform all operations related to travelling in airplanes and functioning of airport.

INTRODUCTION TO SYSTEM

- Admin enter his user id and password for login to enter master module screen.
- Admin can maintain his data sources.
- Admin can manage the fleet of airplanes.
- Administrator will enter the data for the related employee.
- Administrator giving information to generate various kinds of MIS reports.

EXISTING SYSTEM

- A Customer has to approach various application to ask inquiry for travelling then book ticket.
- Finally pay payment and collect receipt.
- Difficult to maintain the customer details of travel and payment receipt in register.
- They register travelling information manually.
- Use travelling facility for the limited area or person.
- All work is done manually.

PROPOSED SYSTEM

- To create stand-alone application for our organization.
- To provide add/remove airplane facility for Admin.
- To generate different types of report.
- To provide the ticket booking facility for Customer.
- To provide boarding pass details.
- One-month advance booking will be getting 10% off.
- Customer can cancel the booking then return 15% deducted from the amount.
- Services provided by system
 - Search flight
 - Booking
 - Cancel Booking

OBJECTIVE

- Main objective of this system is to provide customer registration. Give information of flight rates, ticket booking system and searching facility and also generate different types of report.
- Continuously provide enjoyable quality travel on time and on budget.
- Provide a high standard of service suitable for individuals. Seeking relaxing, Comfortable and Memorable experiences in the hospitality and travelling with the help of airport management system.

SCOPE

- Airport management system is an integrated software developed of airplane operating companies. The main aim of this project is to help the airplane companies to manage their customers, flight and employee. It makes all operations of the flight operating company easy and accurate.
- The stand-alone platform makes airport management easy by handling customer requests and providing services for the customers. Different modules have been incorporated in this project to handle different parts and sectors of the airport management field.

ANALYSIS

Fact Finding Technique:

In order to find facts about the system, we first searched online to gather up as much detail as we could on existing systems.

Feasibility Study:

An important outcome of preliminary investigation in the determination that the system requested is feasible or not.

Operational Feasibility:

The system will be developed according to the airport needs and will have all the specification demanded by the company. The user will already be familiar with the facility provided by any web site.

Technical Feasibility Study:

The software is developed Intel processor which is commonly available in the market that can be used to implement the system. The hardware and software requirement are minimal and no specification

or special training is required as the user is already familiar with the system. The memory requirements of the system are in kilobytes and the system can be kept on CD. The size of the database can be depending on the use of the user.

Economic Feasibility:

Since the system is window based and developed on Visual Basic. The system configuration is also minimal. Thus the investment required is very less.

HARDWARE AND SOFTWARE REQUIREMENT

■ Minimum Hardware Requirements:-

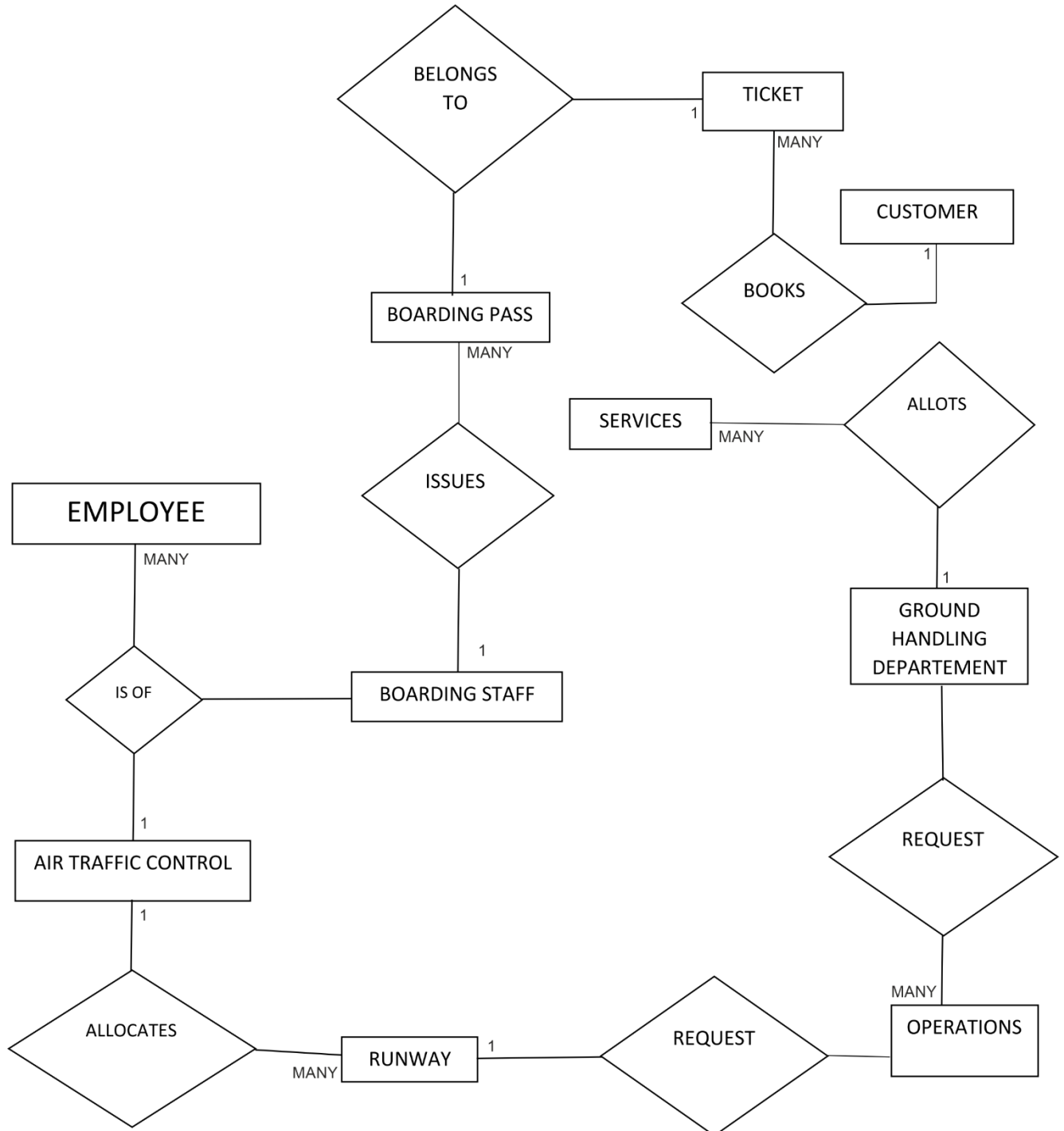
1. Processor – Pentium 4 1ghz
2. Memory- 512mb RAM Or More
3. HDD- 10 GB Or More
4. Additional Devices- CDROM/USB Drive And Printer

■ Minimum Software Requirements:-

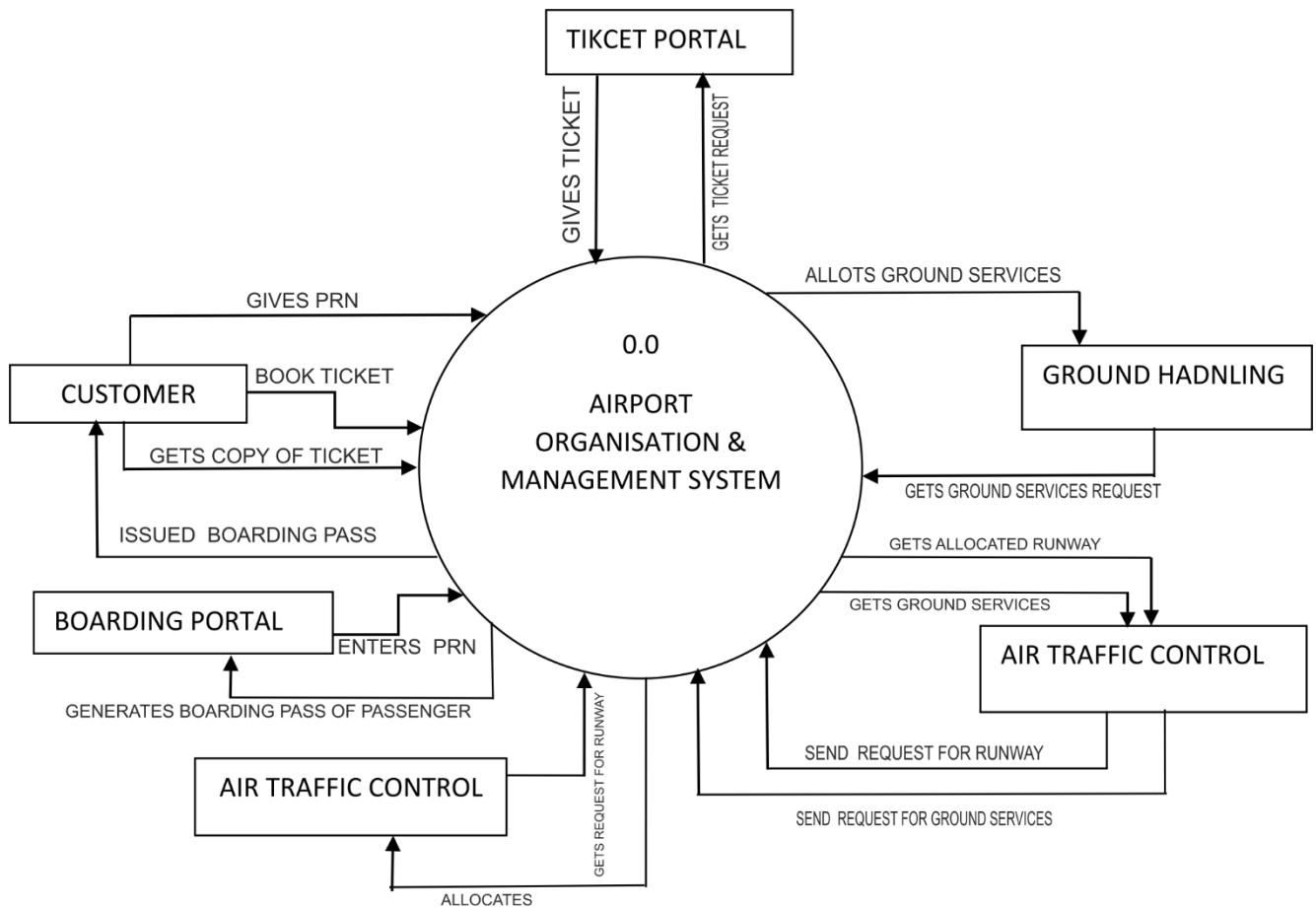
1. OS- Windows XP/07
2. Front End- Microsoft Visual Basic 6.0
3. Back End- Microsoft Access

SYSTEM DESIGN

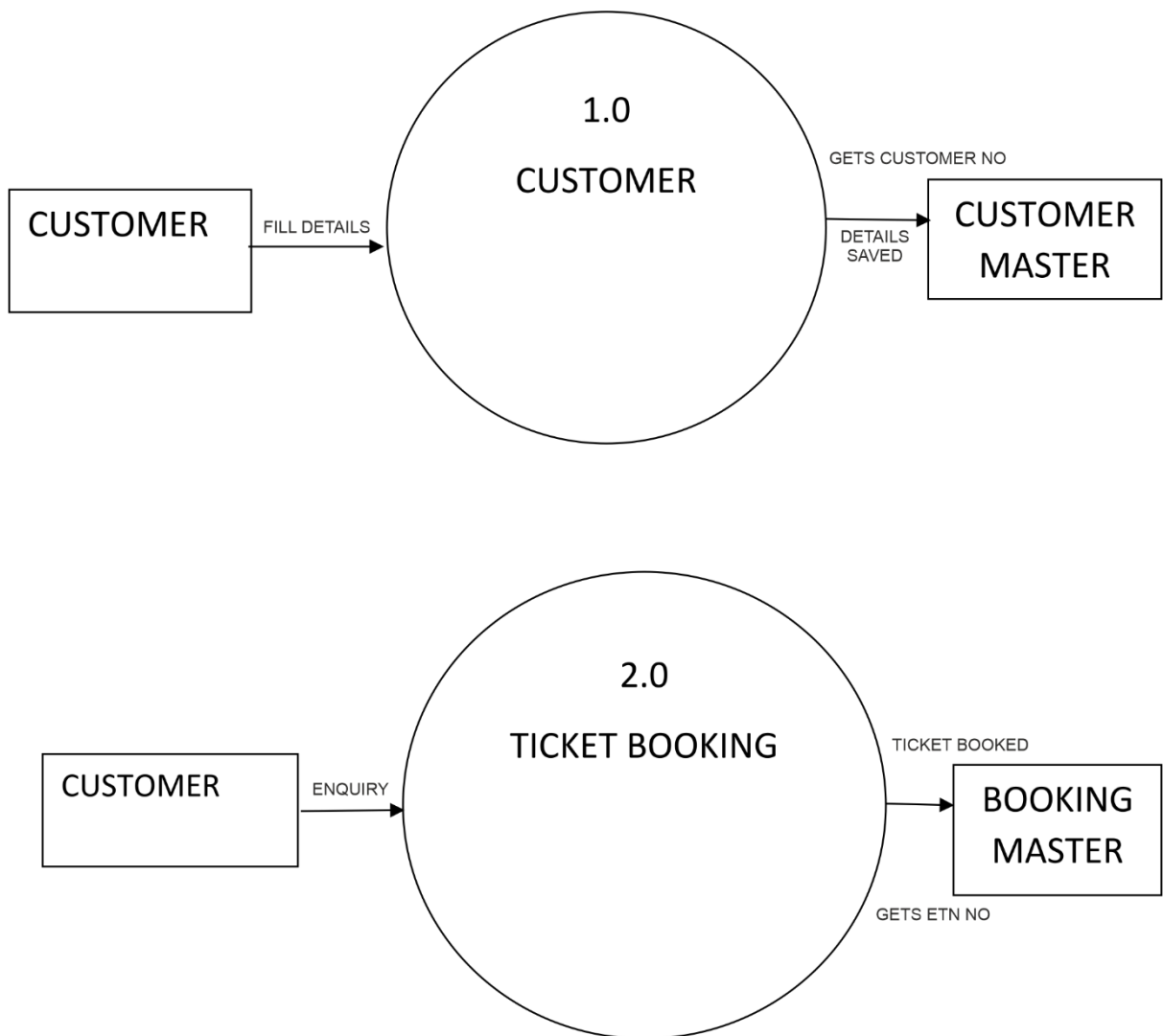
ENTITY RELATIONSHIP DIAGRAM



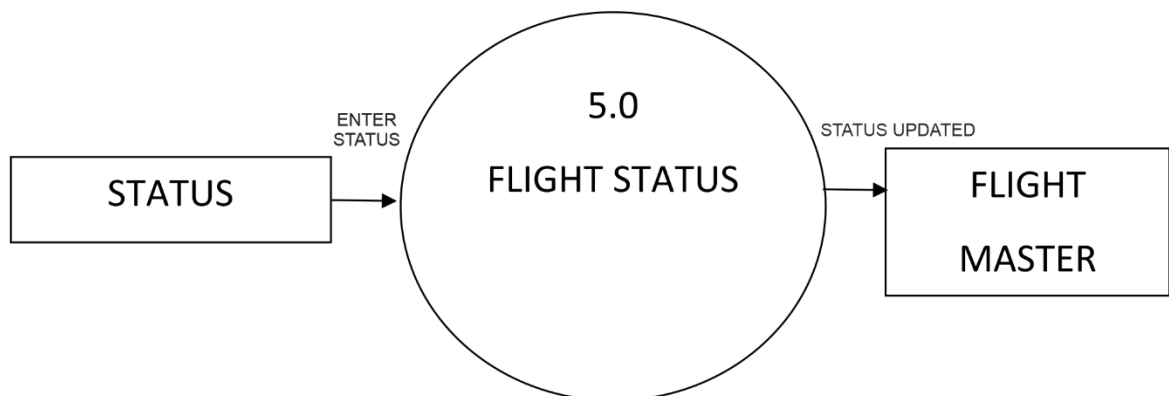
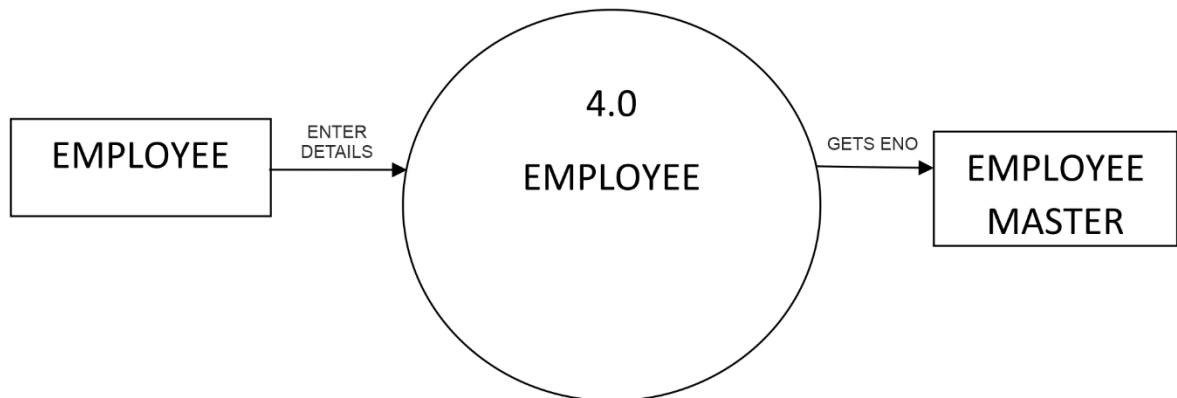
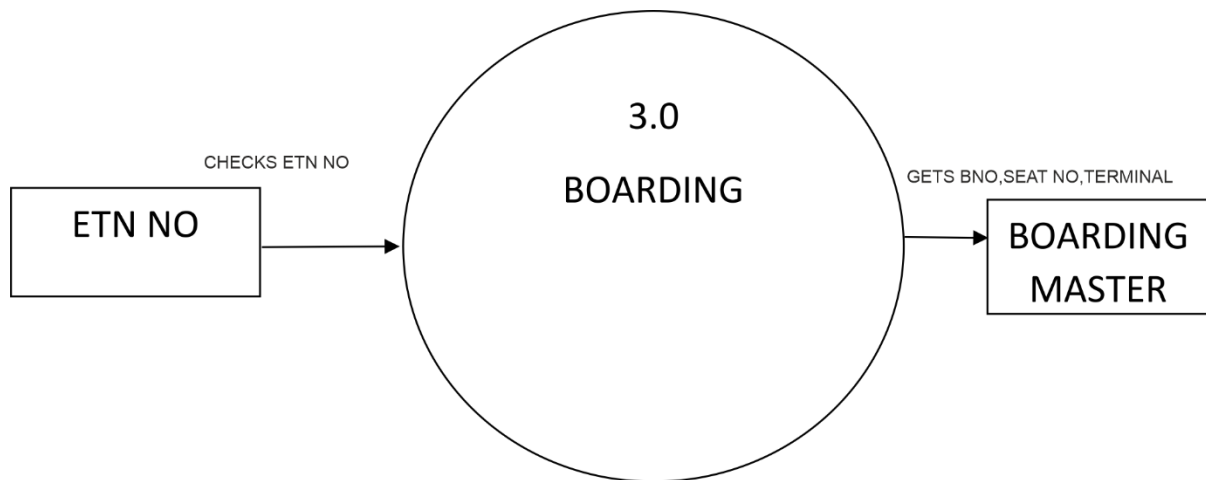
CONTEXT LEVEL DIAGRAM



FIRST LEVEL DFD



FDD DIAGRAM



DATA DICTIONARY

1)Admin

Admin:-

Key	Fields	Data Type	Length	<u>NULL able</u>
<u>Primary</u>	<u>Admin id</u>	<u>Text</u>		<u>No</u>
<u>Password</u>	<u>Admin Password</u>	<u>Text</u>		<u>No</u>

2)Customer

	Field Name	Data Type
	cname	Short Text
	dob	Short Text
	phone	Short Text
	pp	Short Text
	email	Short Text
	gender	Short Text
	cno	Number

3)Flights

	Field Name	Data Type
	fno	Short Text
	sour	Short Text
	dest	Short Text
	cat	Short Text
	fare	Number
	tdate	Short Text
	ttime	Short Text
	stats	Short Text

4)Customer Booking

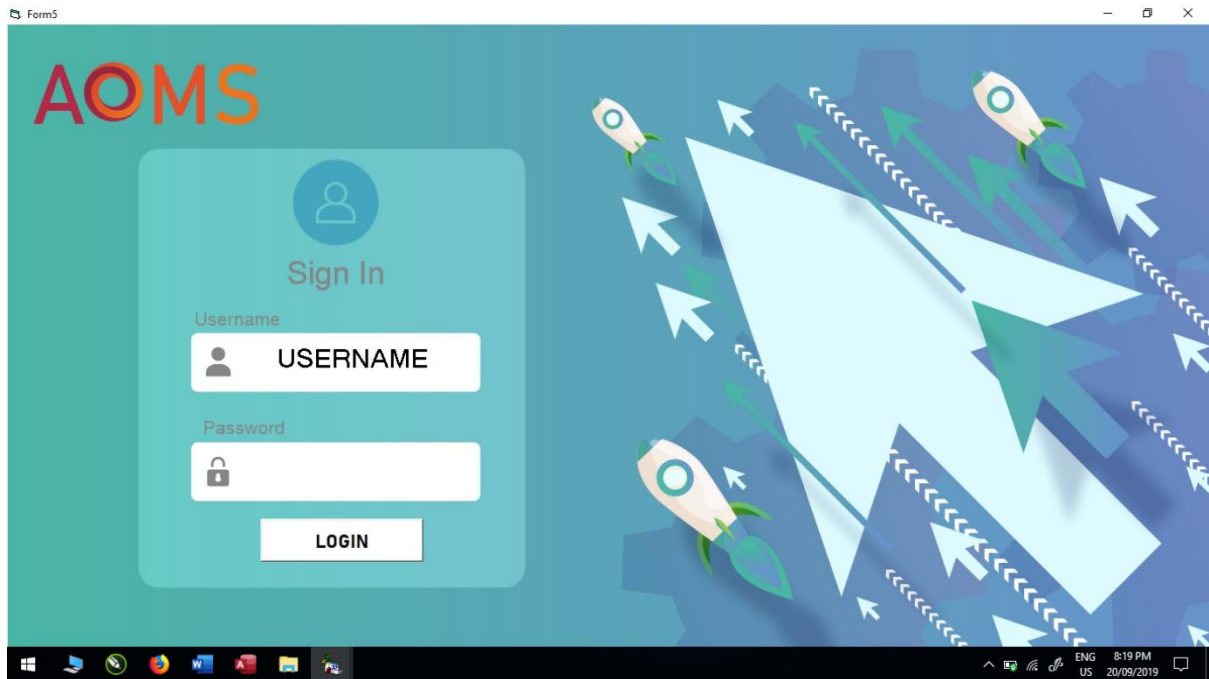
	Field Name	Data Type
	sour	Short Text
	dest	Short Text
	cat	Short Text
	fare	Short Text
	tdate	Short Text
	ttime	Short Text
	etn	Short Text
	pname	Short Text
	pgen	Short Text

5)Boarding

	Field Name	Data Type
	etn	Number
	seatno	Short Text
	ftime	Short Text
	fdate	Short Text
	fgate	Short Text
	fcats	Short Text
	fno	Short Text
	pname	Short Text

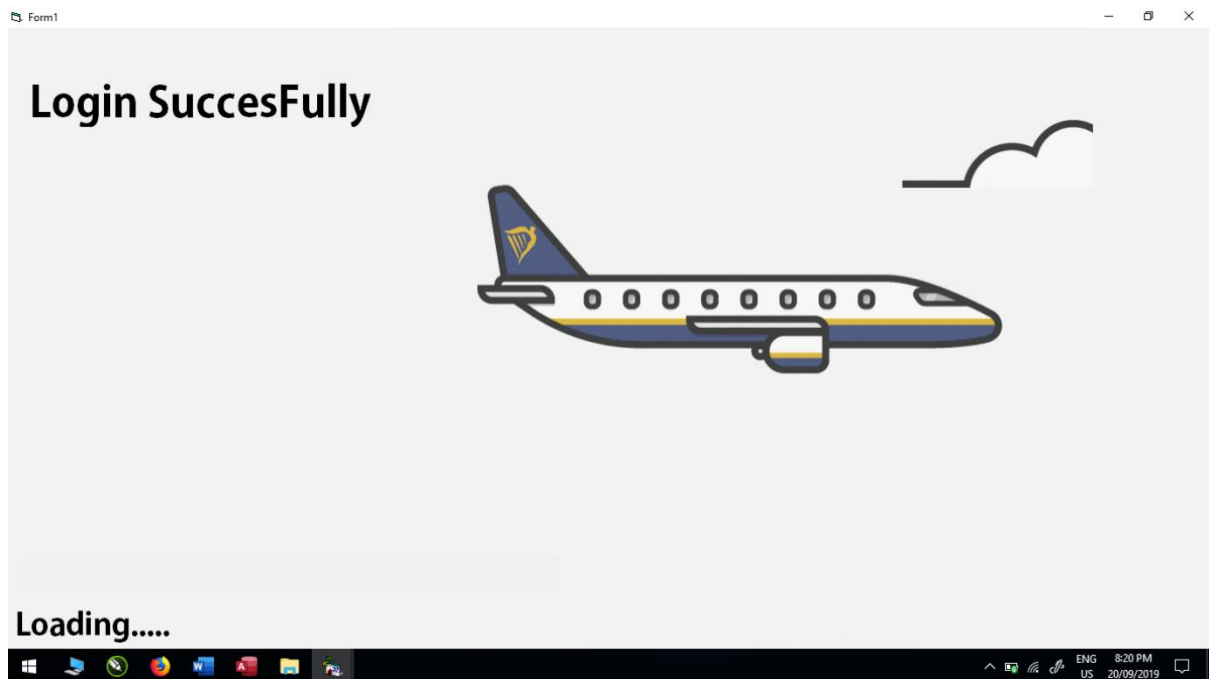
FORM DESIGN

1)Login Form



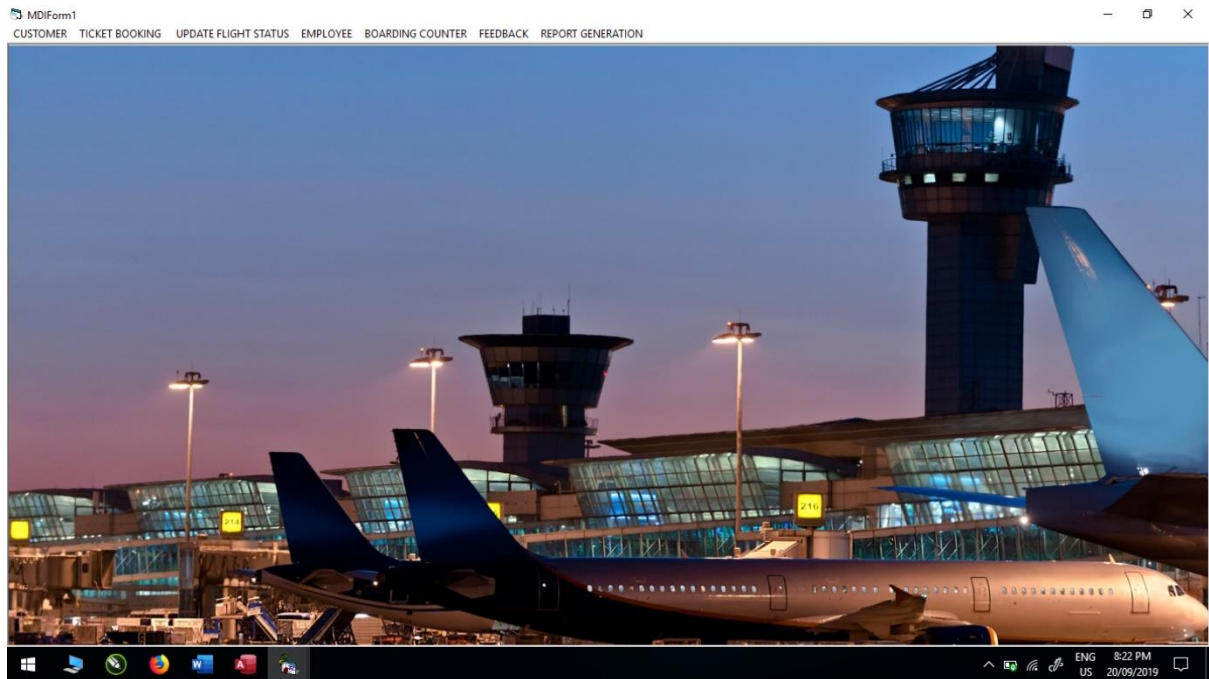
The screenshot shows a web application window titled 'Form5'. The background is a teal color with a large, stylized white arrow pointing upwards and to the right, surrounded by several smaller white arrows and three rocket ships. On the left side, there is a 'Sign In' section with a blue circular icon containing a white person silhouette. Below the icon, the text 'Sign In' is displayed. Underneath, there are two input fields: 'Username' with a white icon of a person and the text 'USERNAME', and 'Password' with a white icon of a lock. A 'LOGIN' button is positioned below the password field. The Windows taskbar at the bottom shows various application icons and system information: ENG US, 8:19 PM, 20/09/2019.

2) Loading Window



The screenshot shows a web application window titled 'Form1'. The background is a light gray color. At the top left, the text 'Login SuccesFully' is displayed. In the center, there is a stylized illustration of a blue and white airplane with a yellow stripe, flying towards the right. A single white cloud is visible in the upper right corner. At the bottom left, there is a gray loading bar with the text 'Loading.....' below it. The Windows taskbar at the bottom shows various application icons and system information: ENG US, 8:20 PM, 20/09/2019.

3)MDI Form



4)Customer Form

The screenshot shows the Form2 application window with a 'Customer Details' form. The form is set against a light yellow background with a faint image of a person in a suit. The form fields include:

- Name:
- Birth Date:
- Phone No:
- Passport Number:
- Email id:
- Gender: ☐ Male ☐ Female
- Customer No:

A circular profile icon placeholder is located to the right of the form fields. Below the form, there are several action buttons:

- ADD
- << GO TO HOMEPAGE
- DELETE
- UPDATE
- NEW

The Windows taskbar at the bottom shows the system clock indicating 10:45 AM on 21/09/2019.

5) Ticket Booking

form2

TRAVEL DETAILS

SOURCE

DESTINATION

DATE

23/06/2019

CLASS

☐ Business

☐ Economy

SEARCH

AVAILABLE FLIGHTS

BOOK TICKET

MODIFY SEARCH

<<GO TO HOMEPAGE



6)Employee Details

The image shows a Windows 10 desktop environment. At the top, a web browser window is open to a page titled "Employee". The page has a yellow background and contains a form titled "Employee Details". The form fields are: "Employee ID" (containing "20"), "Date" (containing "21/09/2019"), "Name", "Address", "Mobile", "Designation", and "Password". Below the form are five buttons: "Save", "Update", "Delete", "Find", and "Close". To the right of the form is a large, stylized illustration of an office scene. It features a man in a blue suit pointing at a whiteboard, a man in a blue suit standing with arms crossed, a woman in a red dress holding a folder, and a man in a blue suit sitting at a desk with a computer. In the background of the illustration are large orange gears and a whiteboard with a person icon and a plus sign. The Windows taskbar is visible at the bottom, showing the Start button, several application icons (Edge, File Explorer, etc.), and the system tray with the date and time (10:46 AM, 21/09/2019).

REPORTS

1)Customer Report

The screenshot shows a web application titled "MDIForm1" with a navigation bar containing links: CUSTOMER, TICKET BOOKING, UPDATE FLIGHT STATUS, EMPLOYEE, BOARDING COUNTER, FEEDBACK, and REPORT GENERATION. The background image is an airport terminal at night. A window titled "DataReport4" is open, displaying a report for a customer named VISHWANATH. The report includes the following details:

cname:	VISHWANATH
dob:	25/06/2019
phone:	7744062398
pp:	123456
email:	itsvishwa23@gmail
gender:	MALE
cno:	1

The window has a zoom level of 100% and shows page 1 of 1.

2)Employee Report

The screenshot shows a window titled "DataReport5" displaying an "EMPLOYEE REPORT". The report is a table with 8 columns: EmpID, MDate, EmpName, Address, PhoneNo, and Designation. The data is as follows:

EmpID	MDate	EmpName	Address	PhoneNo	Designation
1	17-02-2000	Sukanya	Pune	9890572525	Administrator
2	22-03-2000	Parasthar	pune	9960257868	Cashier
3	06-03-2006	Santosh	Ganesh Nag	9870244688	Cashier
4	19-02-2002	Keerthi	Talegaon	9970679492	Manager
5	29-12-2010	Riya	Pune	9823856885	PR
6	17-02-2012	Aniket	Baramati	9876654679	HR
7	08-10-2012	Rahul	Nasik	9890563400	general
8	10-09-2012	Tanaaz	Nigdi	8413015786	general

The window has a zoom level of 100% and shows page 1 of 1. The system tray at the bottom right shows the date as 10-10-2019.

LIMITATIONS

List of Limitations Which Is Available In Airport Management System -

- Data repetition
- Slow speed
- Ambiguous
- No proper format
- Less storage
- Project is limited to stand alone environment

FUTURE ENHANCEMENT

- Any agency can make use of it for saving customer details in database.
- This application can easily implemented under various situation.
- We can add new features as and when we require.
- Reusability of this application is also possible.

CONCLUSION

After making this software we end up at a conclusion that this way of managing renting details of different modules is much easier...

Data access became simple. Speed increased, decrease in manpower, storage volume increased and more user-friendly...

No possibilities of data loss there...

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