

Airport Management System

Detailed Design Document

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Introduction

This document presents a brief overview of our Project on an Airport Management System. In here we mention work summary and ER diagram and Relational schema of our application. We also provided implementation details of our application where we mentioned a brief overview of what each class and jsp does and also some sample outputs and various home pages and login page of our application.

Work Summary

First we discussed what jsp files and classes for extracting data from the database which are necessary for our application.

The following are the main components of our project:-

- A. Database creation
- B. Coding up the jsp and .java files
- C. Interface design(CSS styling)
- D. Testing and Debugging
- E. Documentation

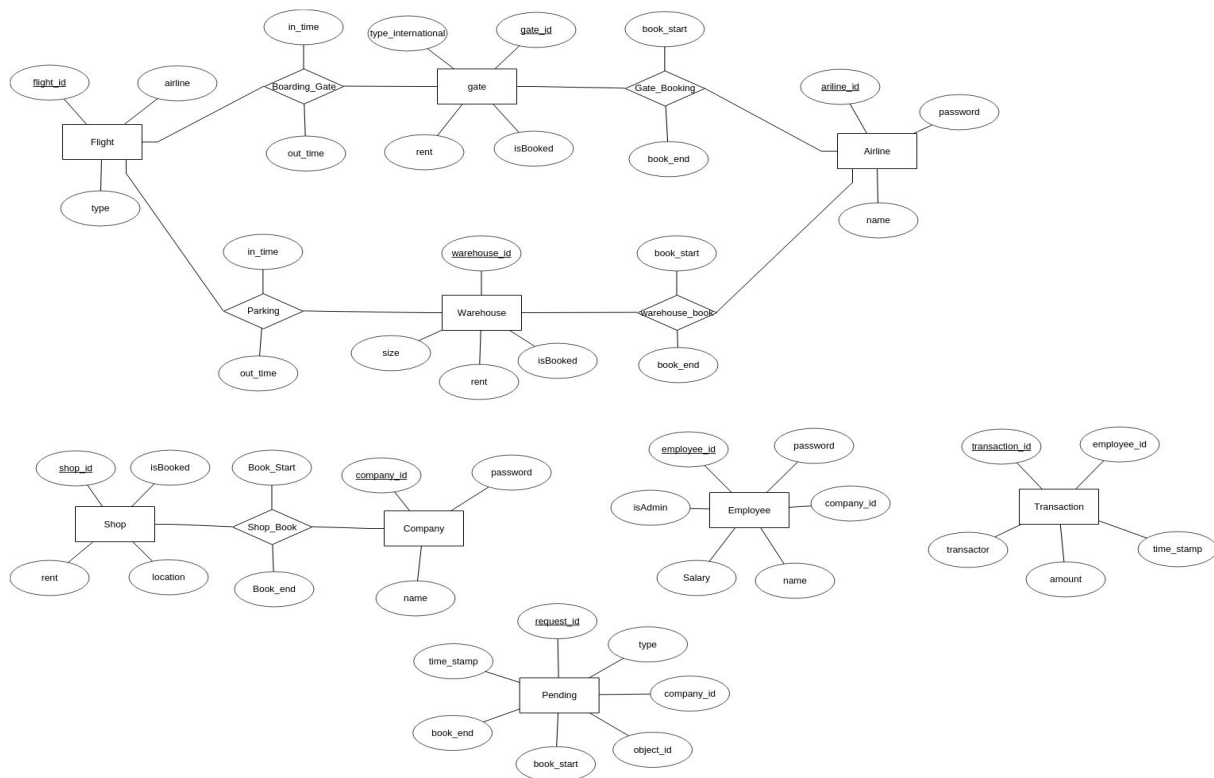
The division has roughly been as follows:-

- 1. Devanshu(KD)-B(airline,company),D
 - 2. Nagaraju(NK)-A, B(admin,employee),D
 - 3. Kranthi(VK) -B(homepage,login),C
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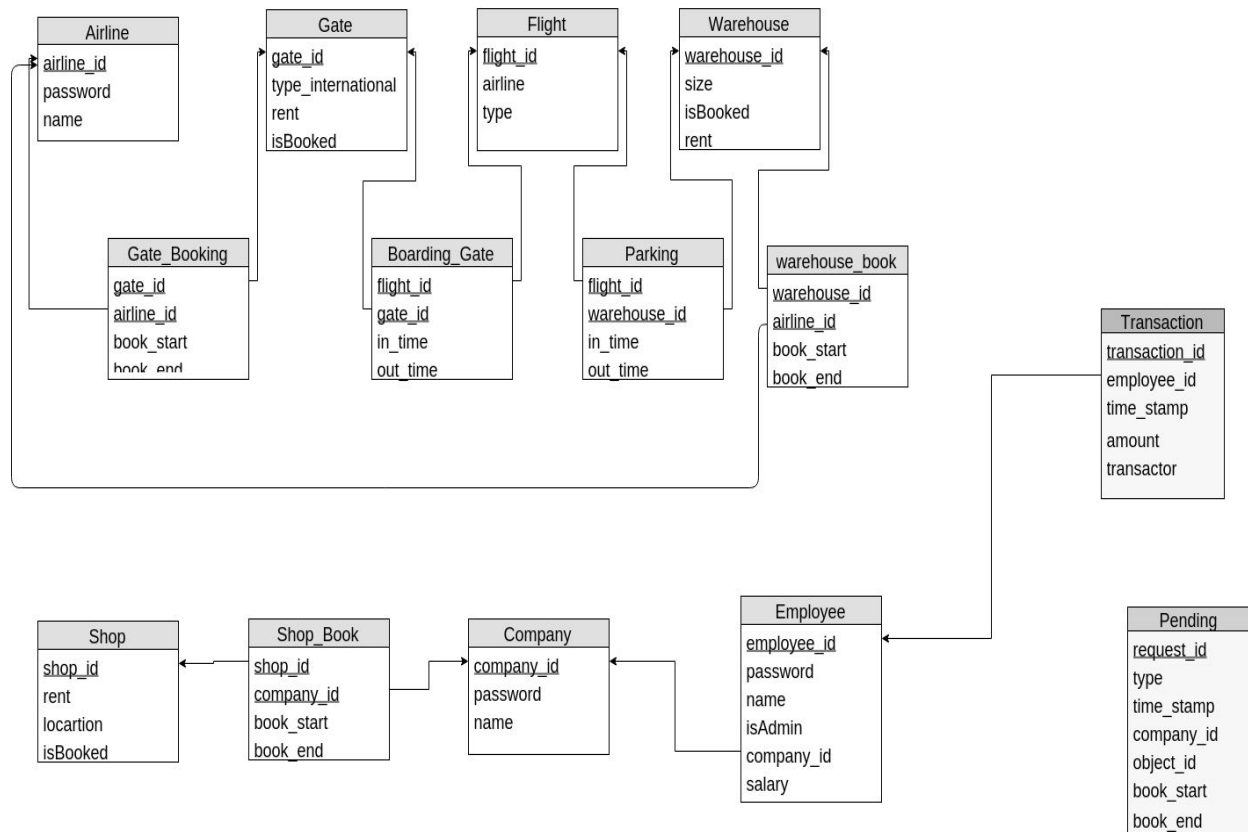
We tried to divide the jsp's and the corresponding database files amongst ourselves . We tried to code in presence of team to a maximum extent possible to resolve doubts/queries within ourselves. The workflow is as follows

1. NK of us started off with "A" and KD, VK were involved with "B"
2. NK, KD work on "B" while VK shifts to "C"
3. NK, VK do "D" while VK is involved in "C"
4. All of us do "E"

ER diagram



Relational Schema:-



Implementation Details

Classes :

1. Login.java :- This class implements various functions like admin_access, employee_access, airline_access, company_access which take arguments as username and password and verifies whether the one who is logged in is admin, employee, airline or company respectively.
2. FlightInfo.java :- This class is used for getting flight information from database.
3. Employee.java :- This class is used for adding transactions of the particular day to the database.

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4. Company.java :- This class is used for booking shops and it also implements a function which checks whether there is a date clash between bookings.
 5. Airline.java :- This class is used for booking gates, warehouses and it also implements a function which checks whether there is a date clash between bookings.
 6. Admin.java :- This class implements functions like getShops(), getWarehouses(), getGates() which gets all the pending requests of the shops, warehouses and gates respectively. These also implements updatePending() function which updates the pending requests, registration() function which registers new airlines and companies, register_employee() function which registers new employees. and also implements function which checks date clash between bookings.

Interface Design and Outputs

We plan to have the following interfaces:

1. **home.jsp** Home Page of the application :- These shows the flight information of all the flights.

Welcome to CST International Airport					Click here to login
Here is the flight information for the next few hours					
FlightId	Name	Type	Gateld	Start time	End time
40	FirstAirline	international	30	12:25:31	12:25:31
41	SecondAirline	domestic	31	12:26:20	12:26:20

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2. **login.jsp** Login Page of the application :- Different entities like Admin, Airlines, Companies and Employees can login here by selecting their specific entity and entering their username and password. If username and password match then they are redirected to their respective homepages otherwise they are redirected to the home page.

Login Page

Login here

Entity:

Username:

Password:

3. **airline.jsp** Airline Home Page :- This is the home page for the airlines where they can look at their successful bookings/pending requests and can also request for more

gates/warehouses.

Welcome Airline Logout

Your Gate bookings are as follows

Gate	Start_date	End_date
30	2015-01-01	2015-04-01

The Results for your last 5 requests are as follows

Requested For	Booking_id	Status
50	82	pending
30	83	accepted
50	84	accepted
30	86	accepted
51	810	pending
51	811	pending

Request for a Gate/Warehouse here

Select to book: Warehouse

Enter id:

Enter StartDate:

Enter EndDate:

4. **admin.jsp** Admin Home Page :- This is the home page for the admin where he can look through various requests of warehouses and gates which he can accept or reject. He can also add warehouses/gates/shops of the airport.

Welcome Admin Logout

You have gone full screen. [Exit full screen \(F11\)](#)

Pending requests for shops are as follows

Request_Id	Shop_Id	Company_id	Start_date	End_date	Accept/Reject	Submit
105	123	20	2013-12-24	2014-01-24	<input type="radio"/> accept <input type="radio"/> reject	<input type="submit" value="Submit"/>

Pending requests for warehouses are as follows
There are no requests for warehouses

Pending requests for gates are as follows
There are no requests for gates

Add Gates/Warehouses/Shops here

Select to book: Warehouse

Enter size(warehouse)
or location(shop) or
type(gates):

Enter the rent for the
shop/warehouse/gate:

Register

Select to book: Airline

5. **company.jsp** Enterprise Home Page :- This is the homepage for the enterprise(company) where they can look at their successful bookings/pending requests and can also request for more shops.

Welcome Company You have gone full screen. [Exit full screen \(F11\)](#) Logout

welcome 20
Your Shop bookings are as follows

Shop	Start date	End date
60	2015-01-01	2015-04-01
61	2016-01-01	2016-04-01
60	2015-01-01	2015-04-01
60	2016-01-01	2016-04-01

The Results for your last 5 requests are as follows

Requested For	BookingId	Status
61	1013	pending

Request for a Shop here

Enter Shop Id:

Enter StartDate:

Enter EndDate:

Submit

6. **employee.jsp** Employee Home Page :- This is the homepage for the employee where he can add transactions carried on that day.

Welcome Employee

Logout

Add you transaction here

Enter Amount:

Enter Purpose:

Submit