Implementing Visa Processing Information System

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Abstract- **In this paper, the Visa Processing Information System of this software specification (SS) is to establish the major requirements & Specification necessary to develop the Software Systems for the Developers. The overall objective of the Team Project is to establish a web-based. The goal of this document is the same as any requirements document, to lay out all requirements of the application in order to have both the developers and the end users maintaining the same understanding and expectations from the application. The project requirements will define, in general terms, the setup of the web site, topics for available information concerning the Software Project Management.**

This H1B Visa Processing is a web-based application for Horizone Technologies, who is going to give the other processors.

This web-based application is for the employees of an organization for processing their visa applications. HR Manager is considering as Site Admin and he is having the control over all the users. HR Manager can create any no of HR Executive logins and authenticated them. HR Executives are the responsible persons to execute the process of Visa applications and their Onsite Details.

Company Employees, those who are willing enquire about visa status are able to login into this portal. Their empID is considered as username and their password will be given by Company HR during his/her joining. Onsite employees may apply for visa renewal thro this project.

The client of this project is any organization who is having many abroad and US clients. This type of organizations is frequently sending their employees for their US client. Our project is used to process their visa and store all the details regarding the passport holder. Our project will handle all type of visas, and very much concentrate in H1B visa processing. It will generate all possible reports, which are need by Consulate.

Index Terms- **H1B Visa Processing, Passport Holder, Software Specification (SS), Onsite Communication and Reporting.**

I. INTRODUCTION

This H1B Visa Processing is a web-based application for Horizone Technologies, who is going to give the other processors.

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A Visa is a document issued by a country giving a certain individual permission to enter the country for a giving period of time and for a certain purposes. "Visa Processing System" is an automated system. It describes the process of applying for visa.

The project *"Online Visa Processing System"* is an automated system. It describes the process of applying for visa. There are so many visa types provided by the government like H1-visa, Dependent visa. Getting a Visa, Visa issuance is a very objective decision, and is not subjective. Every visa official has a list of requirements applicant looks for in a visa application. If they are met, then applicant issues the visa. If not, applicant doesn't. It is how these requirements are met that makes a visa decision seem subjective.

II. PURPOSE AND SCOPE

2.1. PURPOSE:

Visa processing system (VPS) is web-based tool to reduce communication gap between Visa officer and Applicant. Especially in fast growing IT market technologies are changing very fast, based on technology it reduces manual process of visa processing. This process will make visa processing very easy, fast and by one sitting the applicant can apply for visa, i20 form and can check the status of visa regularly.

The main objective of this solution is to make visa processing easy. This system is designed by keeping in mind both parties like visa processing officers and applicants. System allows applicant to apply for visa, i20 form etc.

2.2. SCOPE:

This visa processing system can easily be used in process of applying for visa And visa processing system allows the applicants to easily apply for visa's .And finally it provide more flexibility to applicant's like the amount of time is. Reduced and the applicant can apply for visa conveniently from any place,

Because of the online support by this system applying for visa has become an easy process for the entire aspiring applicant's.

III. SYSTEM ANALYSIS

3.1. STUDY OF EXISTING SYSTEM

In existing system everything was done manually, for applying a visa. One has to stand in long queues for applying for visa for the day to get this number; if he doesn't get his number on that particular day then he has to come back for the next day, and has to follow the procedure of standing in the queue. So it a time consuming process and it has various other issues like providing security recovery and backup issues and manually maintain problems.

3.2. PROBLEMS IN EXISTING SYSTEM:

In Existing system the system has deployed a manual process for visa. Applying & Submission of visa application to Visa consultant officer etc all are done manually. The system is not transparent to the outside world. Thus, the system needs to be automated.

3.3. PROPOSED SYSTEM

In Proposed system, the system has feasibility for the applicant to apply and submit the visa application through online. It is an automated system; the applicant can apply for the visa at any time from any place. It provides more flexibility to the applicant compared with the existing system.

IV. MODULES DESCRIPTION

- Modules:
  - Admin Module
  - Visa Processing Module
  - Onsite Communication Module
  - Reporting Module

4.1. Admin Module:

HR Executive is the Detail Entry Controller of our project. HR Manager-Admin will create this HR Executive. He will give the details about HR Executive and create the username and password. While login, HR Manager will do the authentication for this HR executive. Any employee of our organization will be enter into our project and do the following functionalities. Employee Authentication will be finalized by the employee main database. Admin can view the visa renewal information, visa status information. He can generate all possible reports like interview reports, results report .He is having the control over the all the users. HR Manager will describe the utilities assessed by an HR Executive. He can view the application entries, enquiry details, interview details, result details, onsite departure details, and onsite arrival details.

4.2. Visa Processing Module:

This is a main module. It handles all the details regarding visa application, submitted documents, employee particulars, passport details, earlier onsite visits and the details regarding their earlier tour details. This will be entered by HR Executive. After applying visa every applicant should attain enquiry and interviews held by consulates. These enquiry and interview details are stored in this module. The result also logged in this module. These details also entered by HR Executive.

4.3. Onsite Data Module:

Candidate's onsite particulars, like visa issuing date, flight date, no of days spending at abroad, returning date, onsite job particulars are stored through this module. This will be entered by HR Executive. Employee's onsite progress like project name, working period, working place and etc., are entered by the Employee itself. In the case of renewal of visa, Employees can give a request to the HR Manager for their renewal of visa. These requests are viewed by HR Manager and have process on for Visa Renewal. Employees can view the visa renewal information and visa process status like current visa status and finished visa status for different countries.

4.4. Report Handler Module

This Module deals all the available reports wanted by Hr Manager and Hr Executive. Normally, Visa Status Report, Onsite details for an employee, Onsite work progress details are important reports viewed by HR manager.

V. REQUIREMENT SPECIFICATION

5.1. Software Requirements

Language	:	JDK (1.5.0)
Frontend	:	JSP, Servlets
Backend	:	MySQL 5.0
IDE	:	my eclipse 8.6
Operating System	:	windows XP
Server	:	Apache Tomcat 5.0

5.2. Hardware Requirements

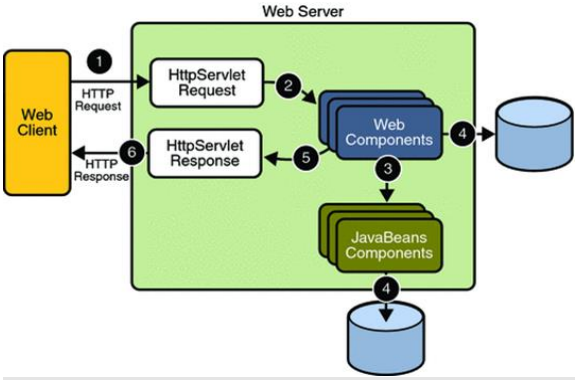
Processor	:	Pentium IV
Hard Disk	:	40GB
RAM	:	256MB
	:	Ethernet card.

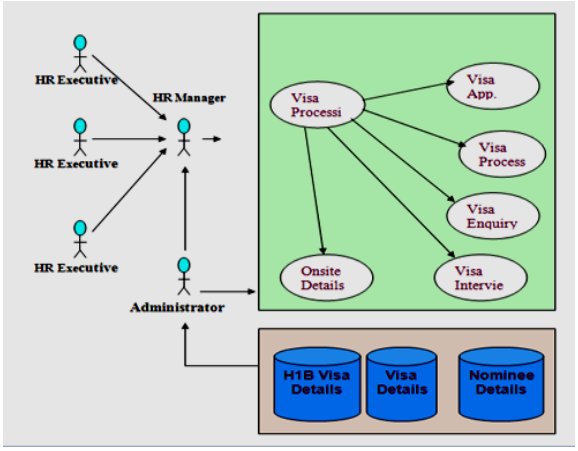
VI.SYSTEM DESIGN

The most creative and challenging phase of the life cycle is System Design. The term design describes a final system and process by which it is developed. It refers to the technical specifications that will be applied in implementation of the system. The design may be defined as the process of applying various techniques and the principles for the purpose of defining device, a process or a system with sufficient details to permit its physical realization

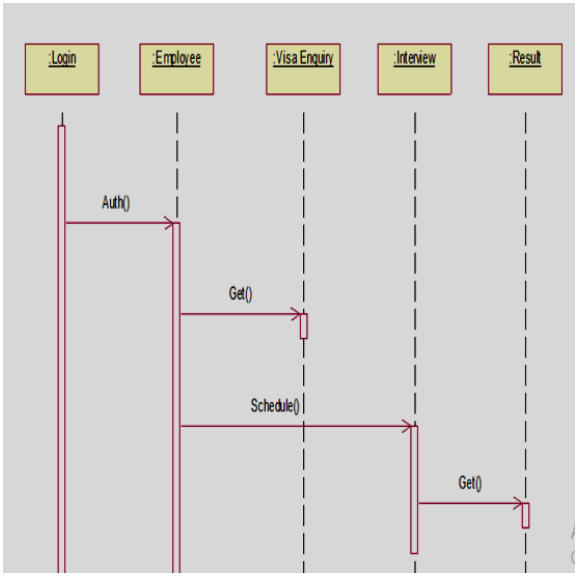
The processing phases are handled through the program Construction and Testing. Finally, details related to justification of the system and an estimate of the impact of the system on the user and the organization are documented and evaluated by the management as a step toward implementation.

Design provides us with representations of the soft wares that can be assessed for quality. Design is the only way where we can accurately translate the customer's requirement into a complete project. So it is essential phase in the development of the software product.



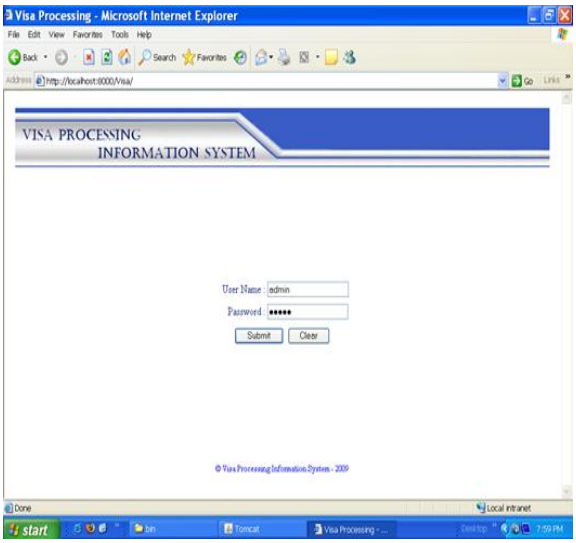


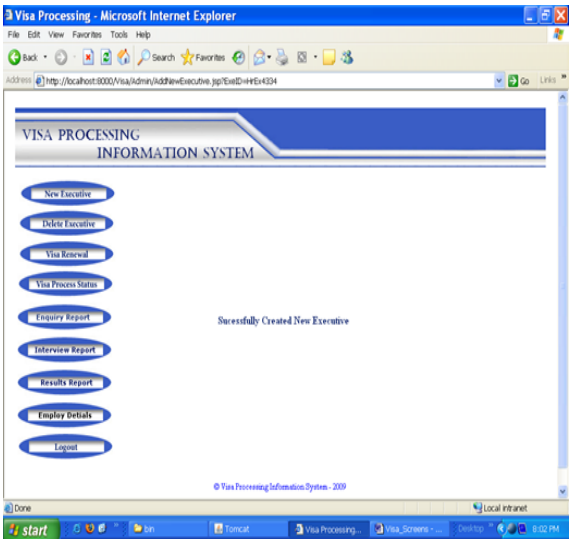
Sequence Diagram

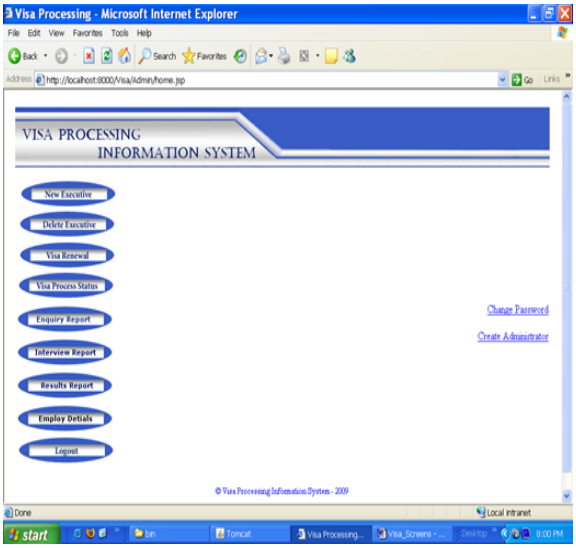


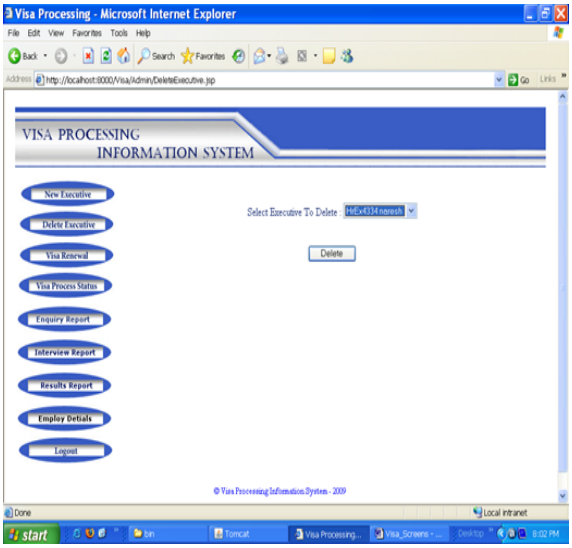
VII.OUTPUT SCREENS

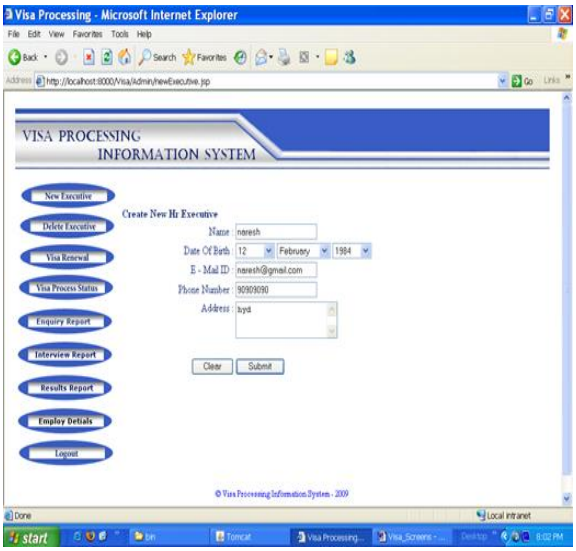
A Screen shot is an image taken by a person to record the visible items displayed on the monitor. It is usually, this is a digital image using the operating system.

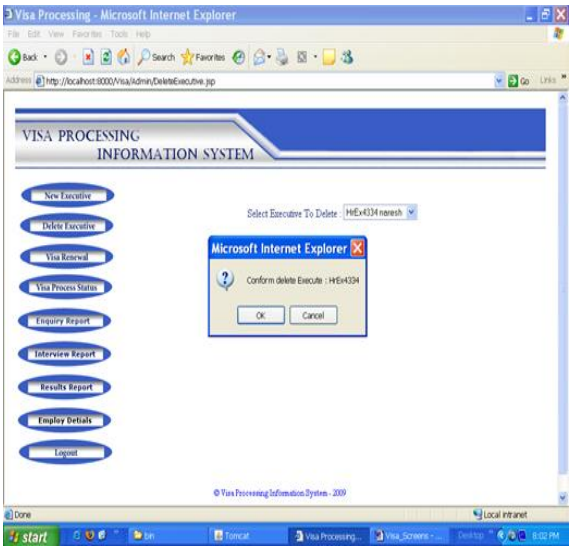

Visa Processing - Microsoft Internet Explorer
VISA PROCESSING
INFORMATION SYSTEM
User Name : admin
Password :
Submit
Clear

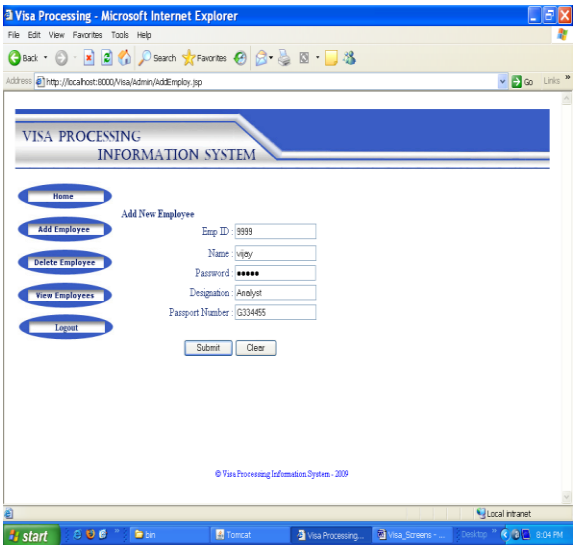

Visa Processing - Microsoft Internet Explorer
VISA PROCESSING
INFORMATION SYSTEM
New Executive
Delete Executive
Visa Renewal
Visa Process Status
Enquiry Report
Interview Report
Results Report
Employ Details
Logout
Sucessfully Created New Executive


Visa Processing - Microsoft Internet Explorer
VISA PROCESSING
INFORMATION SYSTEM
New Executive
Delete Executive
Visa Renewal
Visa Process Status
Enquiry Report
Interview Report
Results Report
Employ Details
Logout
Change Password
Create Administrator


Visa Processing - Microsoft Internet Explorer
VISA PROCESSING
INFORMATION SYSTEM
New Executive
Delete Executive
Visa Renewal
Visa Process Status
Enquiry Report
Interview Report
Results Report
Employ Details
Logout
Select Executive To Delete :
Delete


Visa Processing - Microsoft Internet Explorer
VISA PROCESSING
INFORMATION SYSTEM
New Executive
Delete Executive
Visa Renewal
Visa Process Status
Enquiry Report
Interview Report
Results Report
Employ Details
Logout
Create New Hr Executive
Name :
Date Of Birth :
E - Mail ID :
Phone Number :
Address :
Clear
Submit


Visa Processing - Microsoft Internet Explorer
VISA PROCESSING
INFORMATION SYSTEM
New Executive
Delete Executive
Visa Renewal
Visa Process Status
Enquiry Report
Interview Report
Results Report
Employ Details
Logout
Select Executive To Delete :
Microsoft Internet Explorer
Conform delete Executive : HrEx4334
OK
Cancel


Visa Processing - Microsoft Internet Explorer
VISA PROCESSING
INFORMATION SYSTEM
Home
Add Employee
Delete Employee
View Employees
Logout
Add New Employee
Emp ID : 9999
Name : vijay
Password : •••••
Designation : Analyst
Passport Number : G334455
Submit
Clear
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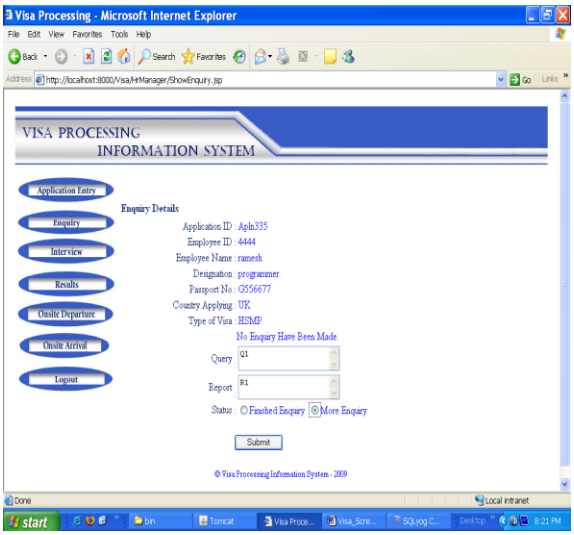
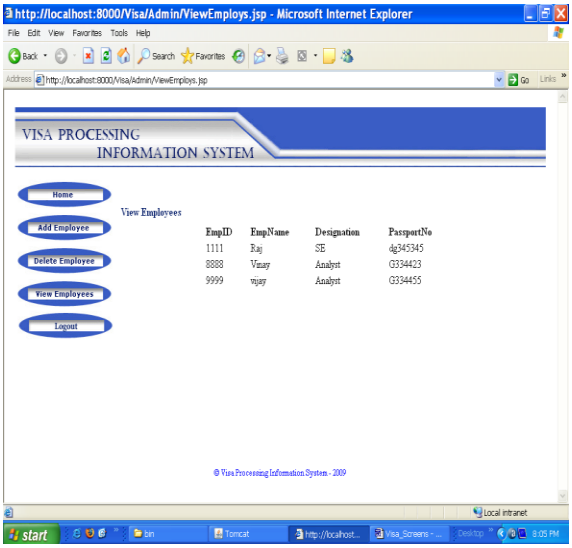
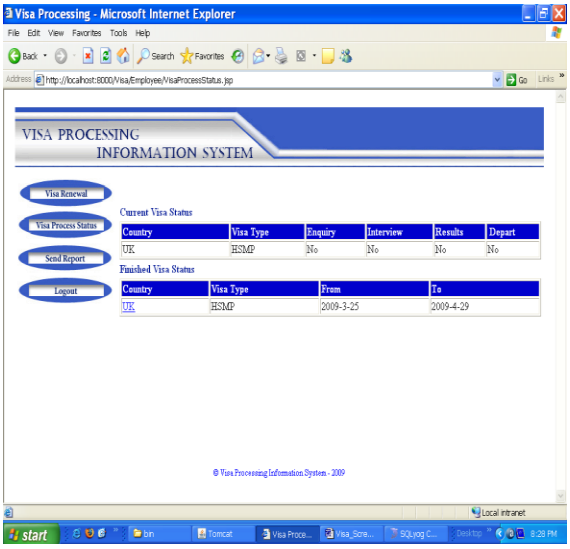
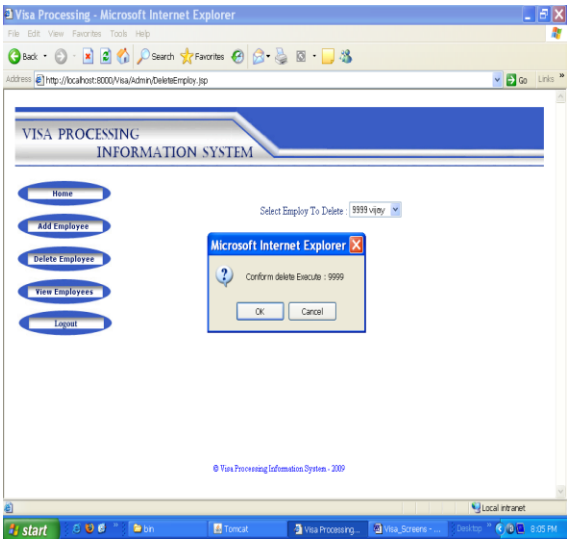
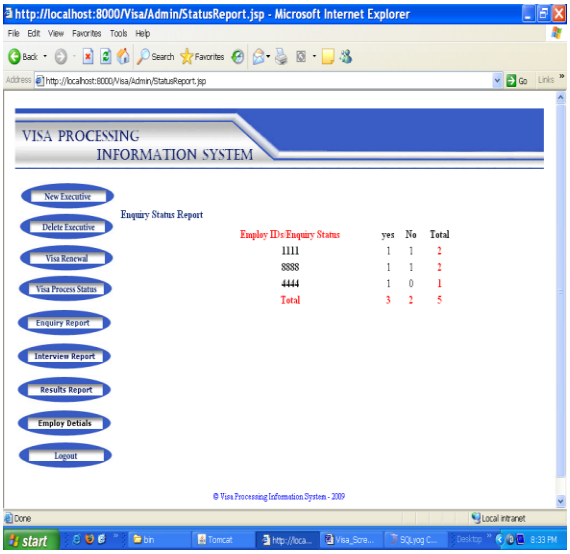

Visa Processing - Microsoft Internet Explorer
VISA PROCESSING
INFORMATION SYSTEM
Application Entry
Enquiry
Interview
Results
Onsite Departure
Onsite Arrival
Logout
Enquiry Details
Application ID : Apln335
Employee ID : 4444
Employee Name : ramesh
Designation : programmer
Passport No : G556677
Country Applying : UK
Type of Visa : HSMP
No Enquiry Have Been Made.
Query : Q1
Report : R1
Status : Finished Enquiry More Enquiry
Submit
© Visa Processing Information System - 2009


http://localhost:8000/Visa/Admin/ViewEmploys.jsp - Microsoft Internet Explorer
VISA PROCESSING
INFORMATION SYSTEM
Home
Add Employee
Delete Employee
View Employees
Logout
View Employees
EmpID EmpName Designation PassportNo
1111 Raj SE dg345345
8888 Vinay Analyst G334423
9999 vijay Analyst G334455
© Visa Processing Information System - 2009


Visa Processing - Microsoft Internet Explorer
VISA PROCESSING
INFORMATION SYSTEM
Visa Renewal
Visa Process Status
Send Report
Logout
Current Visa Status
Country Visa Type Enquiry Interview Results Depart
UK HSMP No No No No
Finished Visa Status
Country Visa Type From To
UK HSMP 2009-3-25 2009-4-29
© Visa Processing Information System - 2009


Visa Processing - Microsoft Internet Explorer
VISA PROCESSING
INFORMATION SYSTEM
Home
Add Employee
Delete Employee
View Employees
Logout
Select Employ To Delete : 9999 vijay
Microsoft Internet Explorer
Conform delete Execute : 9999
OK
Cancel
© Visa Processing Information System - 2009


http://localhost:8000/Visa/Admin/StatusReport.jsp - Microsoft Internet Explorer
VISA PROCESSING
INFORMATION SYSTEM
New Executive
Delete Executive
Visa Renewal
Visa Process Status
Enquiry Report
Interview Report
Results Report
Employ Details
Logout
Enquiry Status Report
Employ IDs/Enquiry Status yes No Total
1111 1 1 2
8888 1 1 2
4444 1 0 1
Total 3 2 5
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VIII. CONCLUSION

It is not possible to develop a system that makes all the requirements of the user. User requirements keep changing as the system is being used. Some of the future enhancements that can be done to this system are:

- As the technology emerges, it is possible to upgrade the system and can be adaptable to desired environment.
- Because it is based on object-oriented design, any further changes can be easily adaptable.
- Based on the future security issues, security can be improved using emerging technologies like single sign-on.
- Employee Payment module can be added
- Employee Visa status and interview schedules should send as alert message through automatic SMS.

❖ The customer has to login and check their visa status information

❖ Employee payment information is not maintained in this application

❖ Advanced techniques are not used to check the authorization.

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