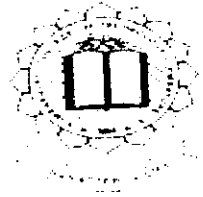
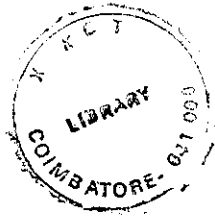


P-1736



ANTICIPATORY VISA SYSTEM

By

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KUMARAGURU COLLEGE OF TECHNOLOGY
Coimbatore
(Affiliated to Anna University)

A PROJECT REPORT

Submitted to the

FACULTY OF INFORMATION AND COMMUNICATION ENGINEERING

*In partial fulfillment of the requirements
for the award of the degree*

of

MASTER OF COMPUTER APPLICATIONS

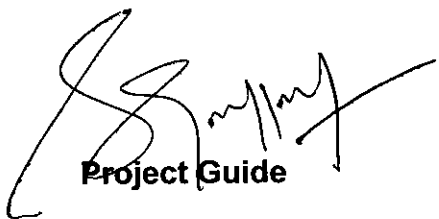
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BONAFIDE CERTIFICATE

Certified that this project report titled **ANTICIPATORY VISA SYSTEM** is the bonafide work of **Mr. P.PADMANABAN (Reg No. 71203621032)**, who carried out the research under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.



Project Guide



Head of Department

Submitted for the University Examination held on 29-06-2006

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29/6/06

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Accenture

May 24, 2006.

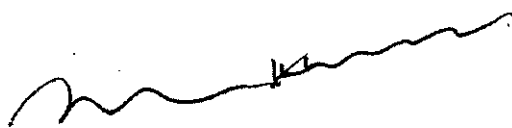
TO WHOMSOEVER IT MAY CONCERN

This is to certify that P Padmanaban is pursuing an internship with Accenture Services Pvt. Ltd.; the period of internship is from January 19, 2006 to July 19, 2006.

During this period, the intern has been working on a project entitled as "**Anticipatory Visa System**".

Till date, we found the intern's conduct satisfactory.

Yours Sincerely



Muthukumar Suruli
India HR Services Centre,
Accenture Services Pvt. Ltd.

ABSTRACT

The project titled “**ANTICIPATORY VISA SYSTEM**” is designed to run as a web based intranet application and would primarily aim at maintaining all the nominations made for US anticipatory visa. This is believed to reduce the time involved in verification, reminders, monitoring and tracking of all the nominations for visa processing manually.

The major features of the AVS are that it allows the Managers to nominate resources for US Visa electronically. It allows the RMS and RMG members to process the application for Visa and maintain their stages. The AVS automatically generates mails for the employees, requesting them to upload the documents. It also notifies the RMS and RMG members when the employee’s have uploaded the documents. It allows Super Administrators to assign Nominating members to processing groups. The application will be accessible only in the Intranet. AVS is designed only to process US anticipatory visas.

The AVS will be deployed on Windows 2003 Enterprise Edition. It will be accessed from Microsoft Windows XP Professional operating system with 512MB physical memory. The Application will be developed in .Net framework by making use of existing libraries. This would reduce the development cost, time and adhere to standards.

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LIST OF ABBREVIATIONS

Acronyms	Definitions
AVS	Anticipatory Visa System
RMG	Resource Management Group
RMS	Relocation Management Services
LDAP	Light weight Directory Access Protocol
DFD	Data Flow Diagram
US	United States of America
USCIS	US Citizenship and Immigration Services

CHAPTER 1

INTRODUCTION

1.1 Project Overview

Anticipatory Visa System is a web based intranet application that automates US Anticipatory Visa processing. This is believed to reduce the time involved in verification, reminders, monitoring and tracking of all the nominations for visa processing manually. The system would primarily aim at maintaining all the nominations for US anticipatory visas, update and track the nominations at various stages of the visa processing, upload of documents by employees and generate necessary reports.

This system will be completely web-based, linking to AVS and the intranet server from a standard web browser. An Intranet connection is necessary to access the system.

1.2 Project Scope

The Anticipatory Visa System includes the process of nominating the resources, uploading documents by resources, sending mails to employees and managers, badging the resources to the different stages of visa processing, recording the visa processing rates and generating reports.

The system does not interact with the Fragomen (application used by visa processing authorities in US) system. The process of submitting the documents into Fragomen has to be done manually. The system is designed only to process

CHAPTER 2

SYSTEM REQUIREMENTS AND SPECIFICATION

2.1 Technical Requirements

2.1.1 User Machine - Software Configuration

- Windows XP Professional.
- Microsoft Internet Explorer 6.0.

2.1.2 Web Server Machine - Software Configuration

- Windows 2003 Server Enterprise Edition.
- IIS 6.0.
- DOT NET Framework 1.1.
- IE Web Controls.
- Microsoft Excel.
- SQL Server 2000 Client.

2.1.3 Database Server Machine - Software Configuration

- Windows 2003 Server Enterprise Edition.
- SQL Server 2000.

2.1.4 User Machine - Hardware Configuration

- 512 MB RAM.
- Pentium 4, 2.8 G Hz.

2.2 Product Perspective

The AVS is a new system that is to replace the manual operation of the US Visa processing. It interacts with the LDAP Web Service system for the User Login.

2.3 Product Features

The major features that the AVS are that it allows the Managers to nominate resources for US Visa electronically. It allows the RMS and RMG members to process the application for visa and maintain their stages. The AVS automatically generates mails for the employees, requesting them to upload the documents. It also notifies the RMS and RMG members when the employee's have uploaded the documents. It allows Super Administrators to assign Nominating members to processing groups.

2.4 User Classes and Characteristics

The different users of the AVS system are:

- Nominating user
- Processing user
- Super Administrator
- Employee

2.5 Functional Requirements

2.5.1 Nominating User

The nominating user must be able to login to the AVS with User id and

2.5.1.1 Add Nomination

- The add nomination facility provides the flexibility to the nominate resources both in bulk and individually.
- Only Managers would be able to send the final nominations.
- Nomination will be accepted only after doing a background validation by HR.
- Once the nomination is done successfully through either of the options an auto generated confirmation mail is sent to the Manager/User.
- Once the background validation sheet is uploaded successfully the resources nominated would be badged as “Docs pending from employees”.
- The system would then generate an auto mail to all those badged “Docs pending from employees”.

2.5.2 Processing User

The processing user must be able to login to the AVS with User id and password. He must be able to process the nominated resources whose background verification has been completed.

2.5.2.1 Upload Resource List from Human Resources

- The resource management team formats the spreadsheet as per the specifications and uploads this document in the link “Docs Pending From Employees”.
- This document has to be in the given format; else the system would reject the upload.

2.5.2.2 Verification of Documents

- The RMS will verify the documents for correctness.
- If documents are found incorrect a mail would be sent to the resource to reload the documents. Access to the upload feature will again be enabled to the employees.
- Once found correct RMS would send / submit the documents to Fragomen. This will be done at Documents Pending – RMS stage and Interviews to be booked stage of the resource.
- Once the documents are forwarded to attorneys the resources would be badged as 'Docs forwarded to Attorneys' if they are in Documents Pending RMS stage otherwise the resources would be badged as Interviews scheduled.

2.5.2.3 Search / Update Resources

- The documents after verification by attorneys would be sent to USCIS.
- The RMS would mark those resources sent to USCIS as 'Docs forwarded to USCIS'.
- RMS will also specify the type of Visa processed for each of the nominations.
- Once the petitions are received from attorneys, the resources would be badged as 'Petitions Received'.
- Resources would get an auto mailer requesting submission of TRA Form and Passport documents.
- Once the documents are uploaded successfully the resources will be badged as 'Documents Booked'.

- After the interview dates are received by the RMS they would update the interview dates for the resources.
- Visa stamped and Visa received processes would be similar to the requirement as mentioned above. At each stage the resources would be marked with particular badge status respectively.

2.5.2.4 Generate Reports

- All necessary reports would be displayed at each of the badge stages. The user would be able to export the required reports at all stages of the visa process.
- Visa turn around time report would give the average lead time taken at each stage of processing for all resources.
- Anticipatory Visa Budget used report would give a quick heads-up of the entire cost used up so far (on any day) on visa nomination process.

2.5.3 Super Administrator

Super Admin role will be given to a member of the RMS team.

2.5.3.1 Assign Roles

Super Admin will have all the supervisory rights and in addition will be able to:

- Change the status of the nominations from any stage to a previous stage.
- Assign users of nominating groups to processing groups.
- The predefined roles in the system are:
 - Nominating user
 - Processing user

2.5.4 Employee

The Employees will be able to upload documents and check their Visa processing status.

2.5.4.1 Documents Upload

- The resources would upload the documents at the link mentioned in the auto generated mail.
- The system would allow documents upload only for those employees who are badged 'docs pending from employees'.
- Once docs have been uploaded successfully an auto mail to the resource confirming that his docs have been uploaded successfully will be sent.
- An auto mail would be sent to the RMS mailbox confirming the details of the resource whose has uploaded the docs and instructing RMS to verify the docs.
- The resource would get badged as Docs Pending with RMS.

2.5.4.2 Check Visa Status

- This functionality will allow the employee's to check their Visa processing status.

CHAPTER 3

SYSTEM ANALYSIS AND DESIGN

3.1 Data Flow Diagram

The Data Flow Diagram records the various events and processes with in AVS. The DFD's provide function oriented view of the system.

Figure 3.1 Context Level DFD for AVS

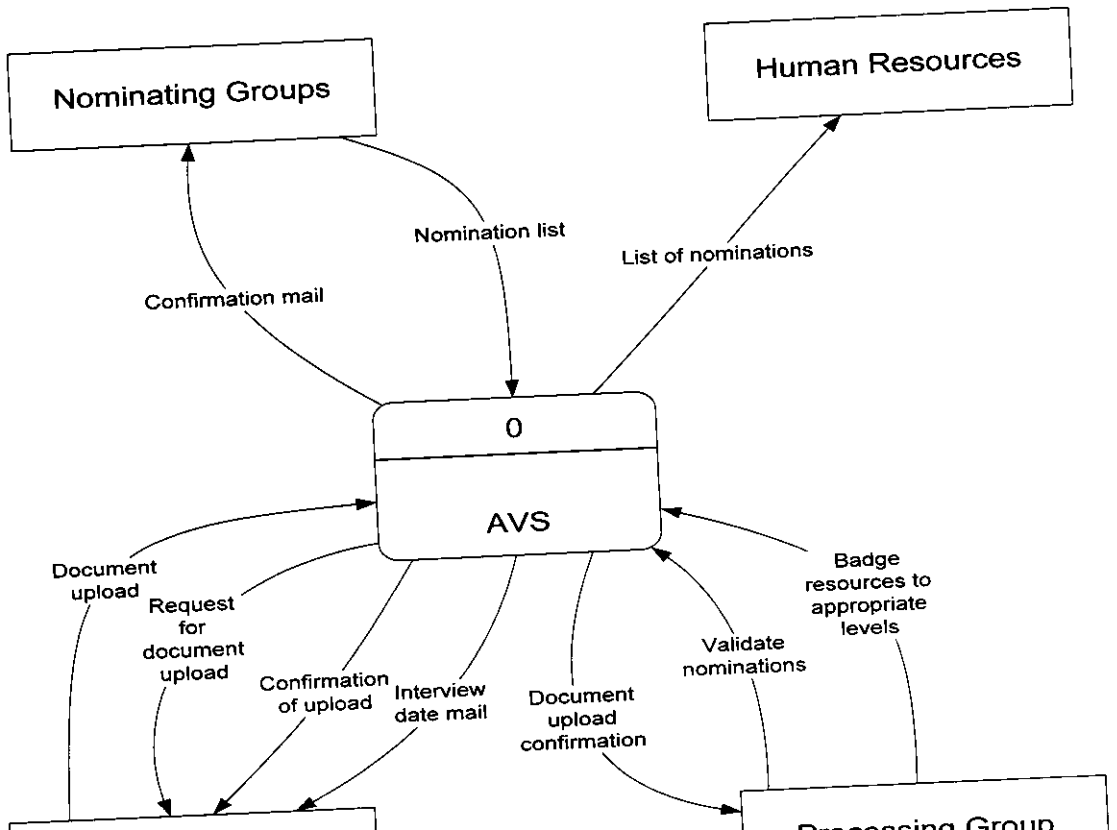
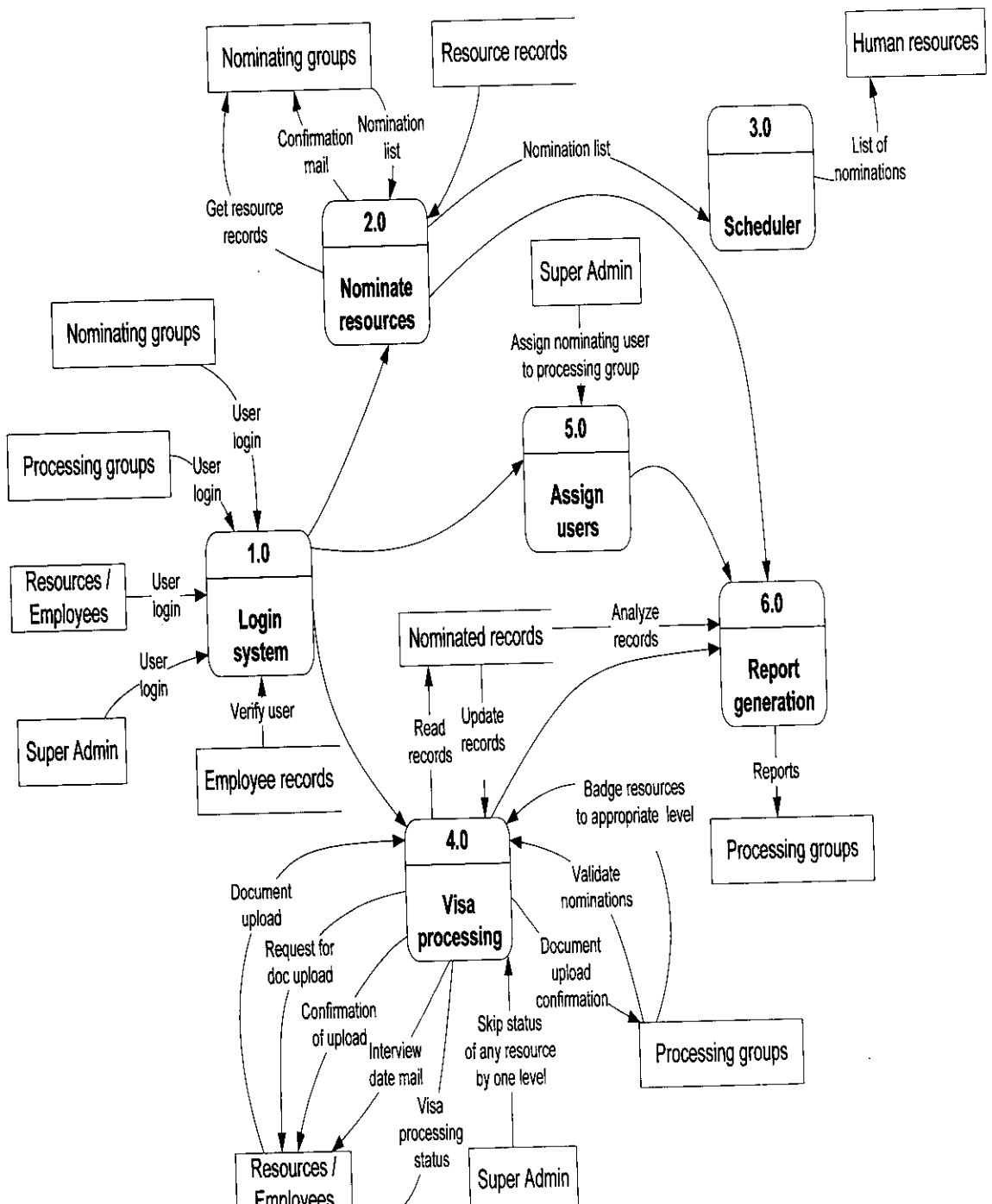


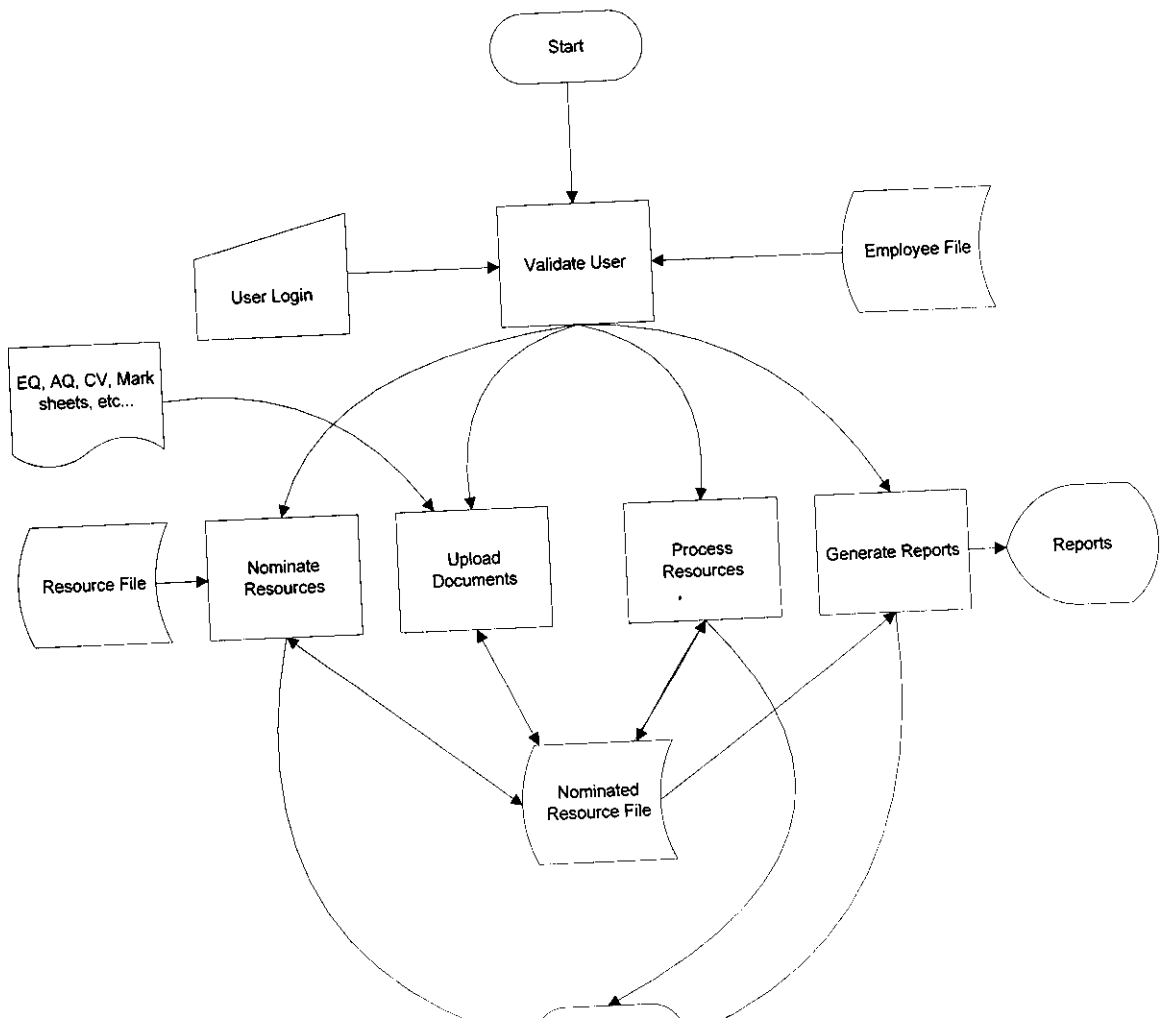
Figure 3.2 Level 1 DFD for AVS



3.2 System Flow Chart

The System Flow Charts are graphic illustrations of the physical flow of information through the entire system. A system flow chart shows high level view of the organization of a system. Flow lines represent the sequences of processes, and other symbols represent the inputs and outputs to a process.

Figure 3.3 System Flowchart for AVS



3.3 Database Design

Database design involves deciding which tables to create, what columns they will contain, as well as the relationships between the tables. The benefits of a good database design are:

- Data entry, updates and deletions will be efficient.
- Data retrieval, summarization and reporting will also be efficient.
- Changes to database schema are easy to make

Normalization is the process of simplifying the design of a database so that it achieves the optimum structure. Normalization theory gives us the concept of normal forms to assist in achieving the optimum structure. The normal forms are a linear progression of rules that you apply to your database, with each higher normal form achieving a better, more efficient design. The normal forms are:

- First Normal Form
- Second Normal Form
- Third Normal Form

3.3.1 Table Structure

Table 3.1 Application Links

Table : APPLINKS				
Primary	Column Name	Data Type	Length	Allow Nulls
Y	AL_ID	bigint	8	
	AL_DESC	APP_COMMENTS (varchar)	500	Y
	AL_LINK_NAME	APP_MASTER_NAME (varchar)	100	
	AL_GRP_NO	APP_NOS (int)	4	Y
	AL_GRP_NAME	APP_MASTER_NAME (varchar)	100	Y
	AL_LINK_TYPE	char	1	Y

Table 3.2 Application Role Links

Table : APPROLELINKS				
Primary	Column Name	Data Type	Length	Allow Nulls
Y	ARL_AR_ID	bigint	8	
Y	ARL_AL_ID	bigint	8	
	ARL_GRP_ID	bigint	8	
	ARL_VIEW_YN	APP_YN (char)	1	

Table 3.3 Application Roles

Table : APPROLES				
Primary	Column Name	Data Type	Length	Allow Nulls
Y	AR_ID	bigint	8	
	AR_NAME	APP_MASTER_NAME (varchar)	100	
	AR_COMMENT	APP_COMMENTS (varchar)	500	Y
	AR_ACTIVEYN	APP_YN (char)	1	

Table 3.4 Application Users

Table : APPUSER				
Primary	Column Name	Data Type	Length	Allow Nulls
Y	AU_ID	bigint	8	
	AU_USER_NAME	APP_MASTER_NAME (varchar)	100	
	AU_PERSONNEL_NO	varchar	50	
	AU_RS_PWD	varchar	50	Y
	AU_EMAIL_ID	varchar	100	
	AU_USER_TYPE	bigint	8	Y
	AU_DEFAULT_PAGE	varchar	200	
	AU_ACTIVEYN	APP_YN (char)	1	
	AU_AEN_ID	int	4	Y
	AU_DOCUMENTYN	APP_YN (char)	1	Y

Table 3.5 Application User Roles

Table : APPUSERROLES				
Primary	Column Name	Data Type	Length	Allow Nulls
Y	AUR_AR_ID	bigint	8	
	AUR_VIEW_YN	APP_YN (char)	1	

Table 3.6 Employee Nomination

Table : AVS EMP NOMINATION				
Primary	Column Name	Data Type	Length	Allow Nulls
Y	AEN_ID	int	8	
	AEN_EMP_FNAME	APP_MASTER_NAME (varchar)	100	
	AEN_EMP_NO	APP_MASTER_NAME (varchar)	100	
	AEN_COST OCCURED	APP_AMOUNT (numeric)	9	Y
	AEN_DU_NO	APP_MASTER_NAME (varchar)	100	
	AEN_EMP_MNAME	APP_MASTER_NAME (varchar)	100	Y
	AEN_EMP_LNAME	APP_MASTER_NAME (varchar)	100	
	AEN_OG	APP_MASTER_NAME (varchar)	100	
	AEN_CAPABILITY	APP_MASTER_NAME (varchar)	100	
	AEN_LEVEL	APP_MASTER_NAME (varchar)	100	
	AEN_ACTIVEYN	APP_YN (char)	1	
	AEN_CLIENT	APP_MASTER_NAME (varchar)	100	
	AEN_ASM_ID	bigint	8	
	AEN_PROJECT	APP_MASTER_NAME (varchar)	100	
	AEN_AVT_ID	int	4	Y
	AEN_EMAIL	varchar	100	
	AEN_DOJ	APP_DATETIME (datetime)	8	
	AEN_RS_ID	bigint	8	
	AEN_PRIMARYSKILL	APP_MASTER_NAME (varchar)	100	
	AEN_LOCATION	APP_MASTER_NAME (varchar)	100	
	AEN_AG	APP_MASTER_NAME (varchar)	100	
	AEN_NOMINATING_AUTHORITY	APP_MASTER_NAME (varchar)	100	
	AEN_OP_ID	bigint	8	
		APP_YN (char)	1	Y

Table 3.7 Visa Documents

Table : AVS_EMP_VISA_DOCS				
Primary	Column Name	Data Type	Length	Allow Nulls
Y	AEVD_ID	bigint	8	
	AEVD_ADM_ID	bigint	8	
	AEVD_AEN_ID	int	4	
	AVED_DOC_NAME	APP_MASTER_NAME (varchar)	100	
	AVED_DOC_DESCRIPTION	APP_COMMENTS (varchar)	500	Y
	AVED_DOC_SUBMITTED_DATE	APP_DATETIME (datetime)	8	Y

Table 3.8 Interview Dates

Table : AVS_EMP_INTERVIEW_DATES				
Primary	Column Name	Data Type	Length	Allow Nulls
Y	AEID_ID	bigint	8	
	AEID_AEN_ID	int	4	Y
	AEID_INTERVIEW_DATE	APP_DATETIME (datetime)	8	Y
	AEID_INTERVIEW_LOCATION	APP_MASTER_NAME (varchar)	100	Y
	AEID_INTERVIEW_TIME	varchar	100	Y
	AEID_INTERVIEW_REJECT_REASON	APP_COMMENTS (varchar)	500	Y

Table 3.9 Visa Stage Dates

Table : AVS_EMP_VISA_STAGE_DATES				
Primary	Column Name	Data Type	Length	Allow Nulls
Y	AVD_ID	bigint	8	
	AVD_START_DATE	APP_DATETIME (datetime)	8	Y
	AVD_END_DATE	APP_DATETIME (datetime)	8	
	AVD_RS_ID	int	4	
	AVD_ASM_ID	bigint	8	
	AVD_ASU_ID	bigint	8	

Table 3.10 Mail Configuration

Table : AVS MAIL CONFIG				
Primary	Column Name	Data Type	Length	Allow Nulls
Y	AMC_ID	bigint	8	
	AMC_FROM	varchar	100	
	AMC_CC	varchar	500	Y
	AMC_BCC	varchar	500	Y
	AMC_MAILSERVERIP	varchar	20	
	AMC_FLAG	char	1	
	AMC_TYPE	APP_MASTER_NAME (varchar)	100	
	AMC_TO	varchar	100	Y
	AMC_DESCRIPTION	APP_COMMENTS (varchar)	500	Y
	AMC_TYPE_NAME	APP_MASTER_NAME (varchar)	100	Y
	AMC_MAX_DB_SIZE_KB	bigint	8	Y

Table 3.11 Mail Remainder

Table : AVS MAIL REMAINDER				
Primary	Column Name	Data Type	Length	Allow Nulls
	AMR_ID	bigint	8	
	AMR_AEN_ID	int	4	Y
	AMR_ASM_ID	bigint	8	Y
	AMR_COUNT	numeric	9	Y

Table 3.12 Visa Details

Table : AVS VISA DETAILS				
Primary	Column Name	Data Type	Length	Allow Nulls
Y	AVD_ID	bigint	8	
	AVD_AEN_ID	int	4	Y
	AVD_AVT_ID	int	4	Y
	AVD_VALID_FROM_DATE	APP_DATETIME (datetime)	8	Y
	AVD_VALID_TO_DATE	APP_DATETIME (datetime)	8	Y
	AVD_VISA_NO	varchar	50	Y
	AVD_AEN_APP_KEY	varchar	200	Y

Table 3.13 Visa Rates

Table : AVS_VISA_RATES_MASTER				
Primary	Column Name	Data Type	Length	Allow Nulls
Y	AVR_ID	bigint	8	
	AVR_RATE	APP_AMOUNT (numeric)	9	
	AVR_ACTIVEYN	APP_YN(char)	1	
	AVR_AVT_ID	int	4	
	AVR_EFFECTIVE_DATE	APP_DATETIME (datetime)	8	Y
	AVR_ASM_ID	bigint	8	Y

Table 3.14 Visa Type

Table : AVS_VISA_TYPE_MASTER				
Primary	Column Name	Data Type	Length	Allow Nulls
Y	AVT_ID	int	4	
	AVT_TYPE	APP_MASTER_NAME (varchar)	100	
	AVT_DESCRIPTION	APP_COMMENTS (varchar)	500	Y
	AVT_ACTIVEYN	APP_YN(char)	1	

Table 3.15 Documents Master

Table : AVS_DOC_MASTER				
Primary	Column Name	Data Type	Length	Allow Nulls
Y	ADM_ID	bigint	8	
	ADM_NAME	APP_MASTER_NAME (varchar)	100	
	ADM_DESCRIPTION	APP_COMMENTS (varchar)	500	Y
	ADM_ACTIVEYN	APP_YN (char)	1	
	ADM_DOC_TYPE	int	4	Y

Table 3.16 Stage Master

Table : AVS_STAGE_MASTER				
Primary	Column Name	Data Type	Length	Allow Nulls
Y	ASM_ID	bigint	8	
	ASM_STAGE	APP_MASTER_NAME (varchar)	100	
	ASM_DESCRIPTION	APP_COMMENTS (varchar)	500	Y
	ASM_ACTIVEYN	APP_YN(char)	1	

Table 3.17 Status Master

Table : AVS STATUS MASTER				
Primary	Column Name	Data Type	Length	Allow Nulls
Y	ASU_ID	bigint	8	
	ASU_STATUS	APP_MASTER_NAME (varchar)	100	
	ASU_DESCRIPTION	APP_COMMENTS (varchar)	500	Y
	ASU_ACTIVEYN	APP_YN(char)	1	

3.4 User Interface Design

User experience and interface design in the context of creating software represents an approach that puts the user, rather than the system, at the center of the process. This philosophy, called user-centered design, incorporates user concerns and advocacy from the beginning of the design process and dictates the needs of the user should be foremost in any design decisions.

The most important thing is to ensure that the user interface works consistently. The buttons are placed in consistent places on all the windows, the same wording in labels and messages are used, a consistent color scheme is used throughout. This consistency is achieved by using Cascading Style sheets. Consistency in user interface enables users to build an accurate mental model of the way it works, and accurate mental models lead to lower training and support costs.

CHAPTER 4

TESTING

4.1 Unit Testing

Unit testing validates that a particular module of source code is working properly. It shows that isolates each part of program and shows that the individual parts are correct. The unit testing was done on all the modules of the AVS system with different possible inputs.

4.2 Integration Testing

During integration testing the individual software modules are combined and tested as a group. It verifies functional, performance and reliability requirements of the system. The integration testing was applied on unit tested modules of the AVS system by grouping the related modules.

4.3 User Acceptance Testing

The AVS system was tested in the real world by its intended audience. User acceptance testing ensures that the system actually meet the business requirements, works properly and truly helps them do their job efficiently and effectively. The different types of users were involved in this phase of the testing.

Table 4.1 Test Case for Docs Pending Employee

Screen :Docs Pending Employee				Actor :RMS & RMG			
Sr No	UT/ IT	Test Case Script/Input Steps	Expected Output	Test Cycle 1		Test Cycle 2	
				Actual Output	Pass/ Fail	Actual Output	Pass/ Fail
Documents Pending - Employee_01	UT	Login as a user having the role of a "Processing user" with valid User ID and Password.	The user should be able to login into the system and Upload the Excel sheet from the HR. Documents Pending - Employee screen should be made available to the user.	As expected	Pass	As expected	Pass
Documents Pending - Employee_02	UT	Login as a user having the role of a "Super Admin" with valid User ID and Password.	The user should be able to login into the system and Upload the Excel sheet from the HR. Documents Pending - Employee screen should be made available to the user.	As expected	Pass	As expected	Pass
Documents Pending - Employee_03	UT	Login as a user not having the role of a "Processing user" or "Super Admin" with valid User ID and Password.	The user should not be able to access this page.	As expected	Pass	As expected	Pass
Documents Pending - Employee_04	UT	Try to enter the Upload Resource screen by typing the URL of this page directly without entering the Login Page	The system should not allow the user to enter into the system without entering into the login page.	Able to munch url.	fail	As expected	Pass

Documents Pending - Employee_05	UT	Click on "Visa Status\ Documents Pending - Employee" Link from the tree node.	Documents Pending - Employee screen should be displayed with a 1.)Text box for entering the file name 2.)Two buttons to Browse and Upload 3.)Notes to the user	As expected	Pass	As expected	Pass
Documents Pending - Employee_06	UT	Click Browse button	A pop up window should be opened where the user can search and choose a file.	As expected	Pass	As expected	Pass
Documents Pending - Employee_07	UT	Click Browse button to select a document or file other than .xls format and click Upload.	The system should display an error message "File Name should be EmployeeList.xls"	As expected	Pass	As expected	Pass
Documents Pending - Employee_08	UT	Click Browse button to select a document or file other than EmployeeList.xls and click Upload.	The system should display an error message "File Name should be EmployeeList.xls"	As expected	Pass	As expected	Pass
Documents Pending - Employee_09	UT	Click Browse and select an excel sheet with columns arranged in correct order specified with file name EmployeeList.xls and click Upload.	1.) The file should be successfully uploaded in the form of excel sheet. 2.) The uploaded status reports are displayed in a data grid along with Error Status and Comments (reason for the failure).	As expected	Pass	As expected	Pass
Documents Pending - Employee_10	UT	Click Browse and select an excel sheet with columns deleted and click Upload.	The system should display an error message "Column name Employee ID was not found" if the Employee ID column was missing	As expected	Pass	As expected	Pass

Documents Pending - Employee_11	UT	Click upload without choosing any file, leaving the text field blank.	The system should display an error message "File Name should be EmployeeList.xls"	As expected	Pass	As expected	Pass
Documents Pending - Employee_12	UT	Upload the file EmployeeList.xls without entering data and leaving it blank.	An error message "No Records Found" should pop up.	As expected	Pass	As expected	Pass
Documents Pending - Employee_13	UT	Upload the file EmployeeList.xls by entering data of an employee who has not been nominated.	An error message "No Records Found" should pop up.	As expected	Pass	As expected	Pass
Documents Pending - Employee_14	UT	Upload the file EmployeeList.xls without entering any of the fields specified in the excel sheet like: Employee First Name Employee Last Name Enterprise ID DU # Visa Type	1.) The system should display an error message "Please upload the document again as some of the records that were uploaded were not correct". 2.) The uploaded Details are displayed in a data grid along with Error Status "Y" Error Reason First Name is blank. Last Name is blank. Enterprise ID is blank. DU # is Blank.	No such validation	fail	As expected	Pass
Documents Pending - Employee_15	UT	Click Browse and select an EmployeeList.xls with resources already submitted.	System should upload only the resources at Nominated stage. And it should display an error message saying "No records found".	As expected	Pass	As expected	Pass

Documents Pending - Employee_16	UT	Click on a header on the displayed data grid.	The details should be sorted based on the corresponding header data.	As expected	Pass	As expected	Pass
Documents Pending - Employee_17	UT	Click on submit button after uploading the EmployeeList.xls file.	1.) The resources should be badged to Documents Pending Employee and should be removed from Nominated badge. 2.) The message "Mail sent successfully" should pop up. 3.) The confirmation mail should be sent to the resource.	As expected	Pass	As expected	Pass
Documents Pending - Employee_18	UT	Try to submit the resources name even if there is a single erroneous item in the list.	The system should not allow the rest of the resources to be submitted	Able to submit the resources	fail	As expected	Pass
Documents Pending - Employee_19	IT	Try to submit the same resource name who has cleared the background verification twice.	The system should not accept the employee name again. And an error message "No records found" should be displayed	Able to submit the resources	fail	As expected	Pass

Table 4.2 Test Case for Search - Update

Screen :Search/Update

Actor :RMS & RMG

Sr No	UT/IT	Test Case Script/Input Steps	Expected Output	Test Cycle 1		Test Cycle 2	
				Actual Output	Pass/Fail		
Search/Update_01	UT	Login as a user having the role of a "Processing user" with valid Enterprise ID and Password.	The user should be able to login into the system and Search/Update screen should be made available to the user.	As expected	Pass	As expected	Pass
Search/Update_02	UT	Login as a user having the role of a "Super Admin" with valid Enterprise ID and Password.	The user should be able to login into the system and Search/Update screen should be made available to the user.	As expected	Pass	As expected	Pass
Search/Update_03	UT	Login as a user not having the role of a "Processing user" or "Super Admin" with valid Enterprise ID and Password.	The user should not be able to access this page.	As expected	Pass	As expected	Pass
Search/Update_04	UT	Try to enter the Search/Update screen by typing the URL of this page directly without entering the Login Page.	The system should not allow the user to enter into the system without entering into the login page.	As expected	Pass	As expected	Pass

Search/ Update_05	UT	Click on "Visa Status \ Search/Update" Link from the tree node.	Search/Update screen should be displayed with a 1.)Controls for DU #, Capability, Emp Name, Emp ID, Operating Group, & Stage must be available based on which the search for resources can be made. 2.) Two buttons to Search and Clear the resources based on the types selected in the above controls. 3.) A button to submit the chosen resources for next stage.	As expected	Pass	As expected	Pass
Search/ Update_06	UT	Edit in the DU # and Capability controls.	1.) The user must not be able to edit in these controls. 2.) It must be disabled and data can be entered only by selecting the search icon next to the control. 3.) Data can be deleted only by selecting the eraser icon.	As expected	Pass	As expected	Pass
Search/ Update_07	UT	Click on the Operation Groups Drop down list combo box.	It should show all the Operation Groups available.	As expected	Pass	As expected	Pass
Search/ Update_08	UT	Click on the Stage Drop down list Combo box.	It should display only the following stages: Forwarded to attorneys Forwarded to USCIS Petitions Received Visa Stamped Visa Received	As expected	Pass	As expected	Pass



Search/ Update_09	UT	Click Search button.	1.) It should display all the records for the search criteria in a grid. 2.)The grid must have the resource details including the current stage of the resource and 3 Radio Buttons namely Pending, Approved, and Reject that indicates the status of a resource	As expected	Pass	As expected	Pass
Search/ Update_10	UT	Click Clear button.	The system should remove the grid displaying the resource details.	As expected	Pass	As expected	Pass
Search/ Update_11	UT	Change the status of a resource at Forwarded to attorneys stage and click Submit button.	1.) The resource should initially be marked as Pending when the resource enters the Forwarded to attorneys stage. 2.) The resources status can either be set to Approved or Reject but can not be set to Pending again once approved or rejected. 3.) If the resource is set to Approved and Submit button is clicked the resource must be badged to Forwarded to USCIS stage. 4.) If the resource is set to Reject and Submit button is clicked the resource stays in Forwarded to attorneys stage.	As expected	Pass	As expected	Pass
Search/ Update_12	UT	Change the status of a resource at Forwarded to	1.) The resource should initially be marked as Pending when the resource	As expected	Pass	As expected	Pass

			<p>status can either be set to Approved or Reject but can not be set to Pending again once approved or rejected.</p> <p>3.) The Visa Type Combo box will be displayed.</p> <p>4.) If the resource is set to Approved and Submit button is clicked it must ensure that the Visa Type is chosen, if so the resource must be badged to Petitions Received stage.</p> <p>5.) If the resource is set to Reject and Submit button is clicked the resource stays in Forwarded to USCIS stage.</p>				
Search/ Update_13	UT	Change the status of a resource at Petitions Received stage and click Submit button.	<p>1.) The resource should initially be marked as Pending when the resource enters the Petitions Received stage.</p> <p>2.) The resources status can either be set to Approved or Reject but can not be set to Pending again once set to approved or rejected.</p> <p>3.) If the resource is set to Approved and Submit button is clicked resource stays in Petitions Received stage and a mail requesting the submission of the TRA Form and Passport documents must be sent to the</p>	As expected	Pass	As expected	Pass

			Submit button is clicked the resource stays in Forwarded to USCIS stage. 5.) The resources status can be set to Reject from Approved.				
Search/Update_14	UT	Try to see the status of an employee who has been approved in petitions received stage and whose documents has been submitted.	He should be moved to Interviews to be booked stage	As expected	Pass	As expected	Pass
Search/Update_15	UT	Try to see the status of an employee who has been approved in petitions received stage but whose documents has been rejected by RMS.	He should be in pending status in Petitions Receive Stage. He will receive a mail to re-upload the documents.	As expected	Pass	As expected	Pass
Search/Update_16	UT	Try to see the status of an employee who has been approved in petitions received stage and whose documents has been accepted by RMS.	He should be moved to Interviews to be scheduled stage.	As expected	Pass	As expected	Pass
Search/Update_17	IT	Try to accept a person in Petitions Received Stage and then reject him.	The system shouldn't allow a rejection after accepting.	System is allowing	fail	As expected	Pass

Search/ Update_18	UT	Move a resource to Forwarded to USCIS stage with "Not Identified" as the visa type.	The system should give the error message "Select a Visa type"	Resource is allowed to be moved to Forwarded to USCIS with out selecting a visa type.	Fail	As expected	Pass
Search/ Update_20	UT	Move a resource to Forwarded to USCIS stage from Forwarded to Attorneys stage whose visa type has been identified at nomination stage.	The resource should be batched to Forwarded to USCIS with same visa type.	Visa type is reset to not identified for the resources whose visa type have been identified at the Nomination stage	Fail	As expected	Pass
Search/ Update_21	UT	Reject and Approve resources at Petitions Received, Visa Stamped and Visa Received stages.	The resource should be batched to the next stage.	System crashes when the resources are approved in the 'Petitions received' Stage.	Fail	As expected	Pass

CHAPTER 5

CONCLUSION AND FUTURE ENHANCEMENT

5.1 Conclusion

The Anticipatory Visa System has been implemented successfully and the system is found to be working as expected. The AVS has simplified the management of visa processing and reduced the time involved in verification, remainders, monitoring and tracking of all the nominations made for the US anticipatory visa.

The AVS has also simplified the document submission by the resources and it has also allowed him to check the status of his visa at ease.

The AVS also provides stage wise reports, cost budget report and lag report that helps the management plan for the future nominations.

5.2 Future Enhancement

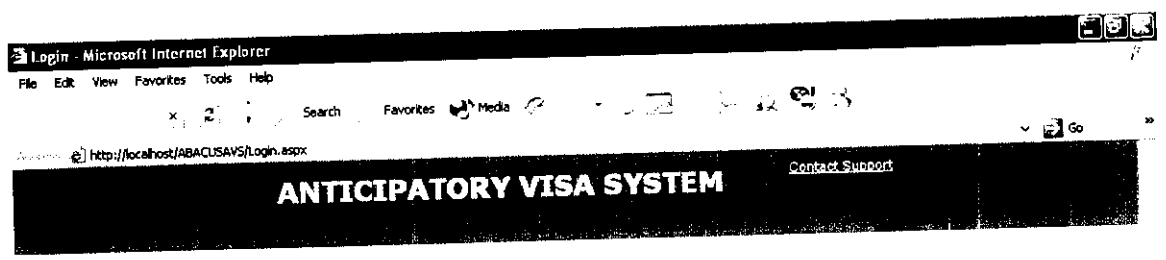
There are few other features that could be added to the AVS system such as the interaction of AVS and the Fragomen systems. This would allow the processing user to upload the documents submitted by the resources in to Fragomen. Some more reports such as Document defaulters report could be generated to help the management.

The AVS system was designed with these considerations in mind so it provides a good scope for the future enhancements.

APPENDIX 1

SCREEN SHOTS

Figure A.1 Login for AVS



Sign In

User ID: Padmanaban

Password: ●●●●●●●●

NOTE: If you do not know your enterprise ID and Password, please contact your local IT helpdesk.

Highly Confidential Information

Figure A.2 Nomination for AVS

AbacusAVS - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Media Go

http://localhost/AbacusAVS/default.aspx

Welcome Padmanabhan

ANTICIPATORY VISA SYSTEM

Help & Support Sign Out

Nomination Process

Employee

Documents Upload

Visa Status

Nomination

DU # Emp Name Emp ID

Capability Internal

Nominate Visa Type	Emp Name	EmpID	Level	DU#	Client	Project	Skill	OG	Capability	Visa Ad
<input checked="" type="checkbox"/> Not Identified	✓ Saravanan	10061775	TL	IND01	IDC	Abacus - Chennai	Power Builder	Internal	Client	Server
<input checked="" type="checkbox"/> L1-A	✓ Govindarejan	10127410	SE	IND01	IDC	Abacus-Recruitment	.Net	Internal	Netcentric	Microsoft
<input type="checkbox"/>	✓ Sarika Rupesh Shinde	10129874	TL	IND01	IDC	Abacus-Recruitment	.Net	Internal	Netcentric	Microsoft
<input type="checkbox"/>	Krishnaraj Saraf	10129874	TL	IND01	IDC	Abacus-Recruitment	.Net	Internal	Netcentric	Microsoft
	Hemalatha Saravanakumar	10127466	SE	IND01	IDC	Abacus - Chennai	VB	Internal	Netcentric	Microsoft
Total Record(s) : 4										

1

Remark
1. Please note that nominations for H1B Visa should not be filed within 60 days prior to the start of the fiscal year (FY) for which the nomination is being filed. The number of nominations for H1B Visa should not exceed 10% of your OI population including the current H1B Visa enabled population and the number of cap positions.
2. Please do not re-nominate any employee for a position within an H1B Visa.

Local Intranet

Figure A.3 Choose Capability for AVS

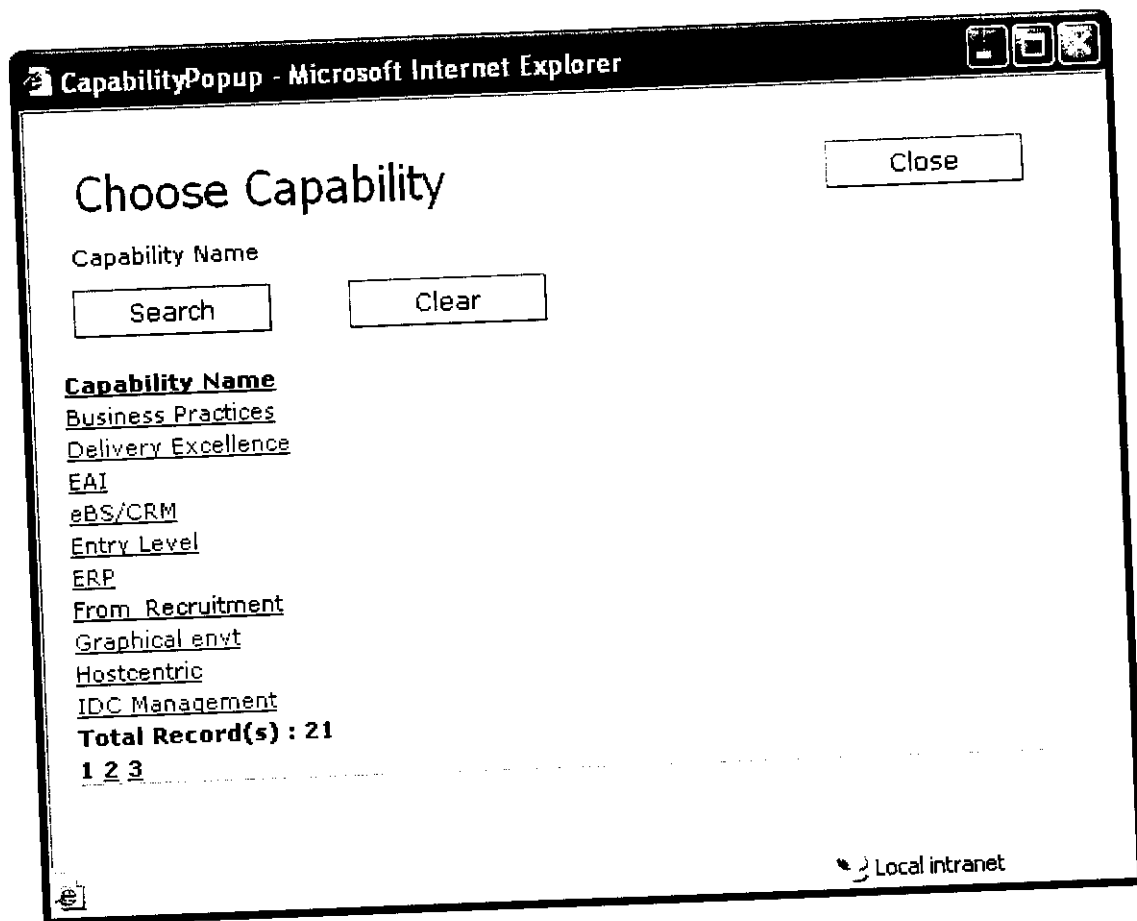


Figure A.4 Check Visa Status in AVS

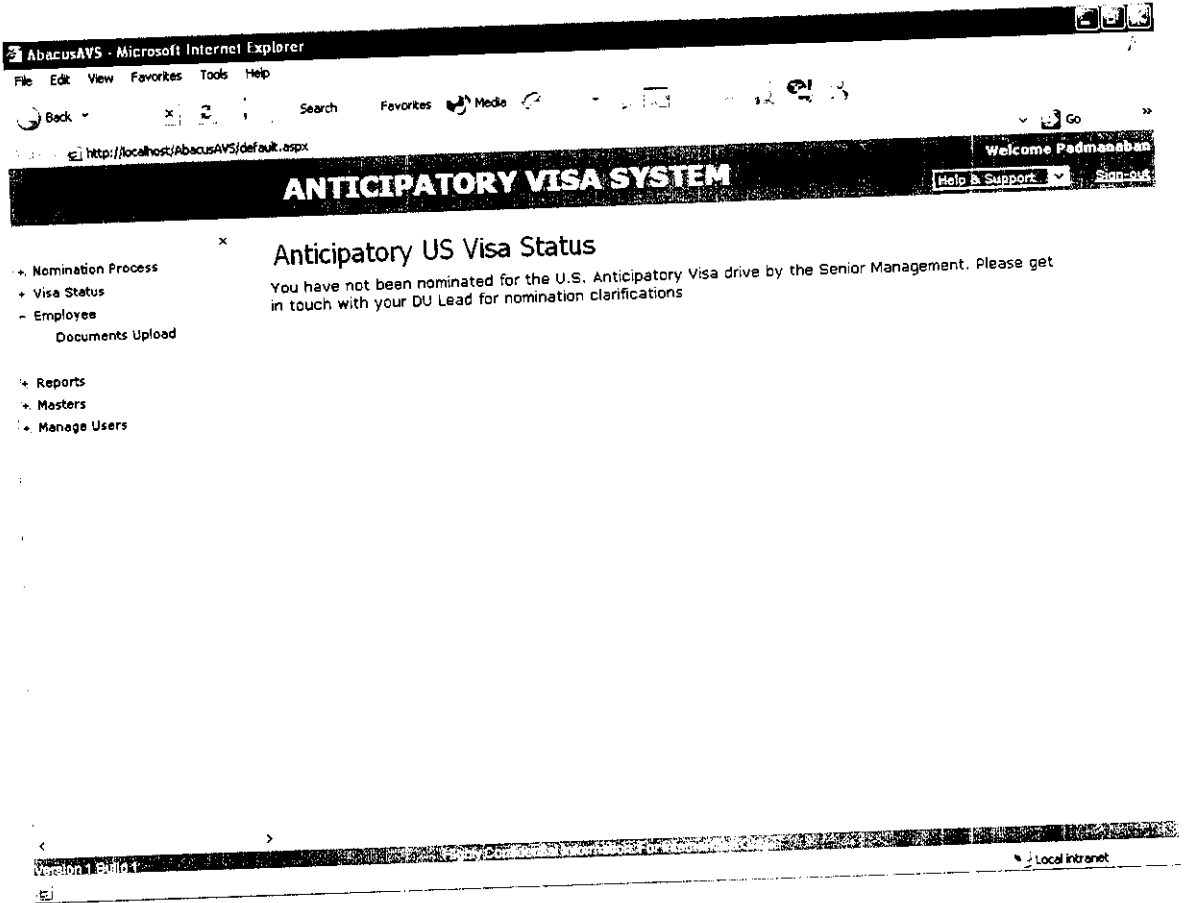


Figure A.5 Add User for AVS

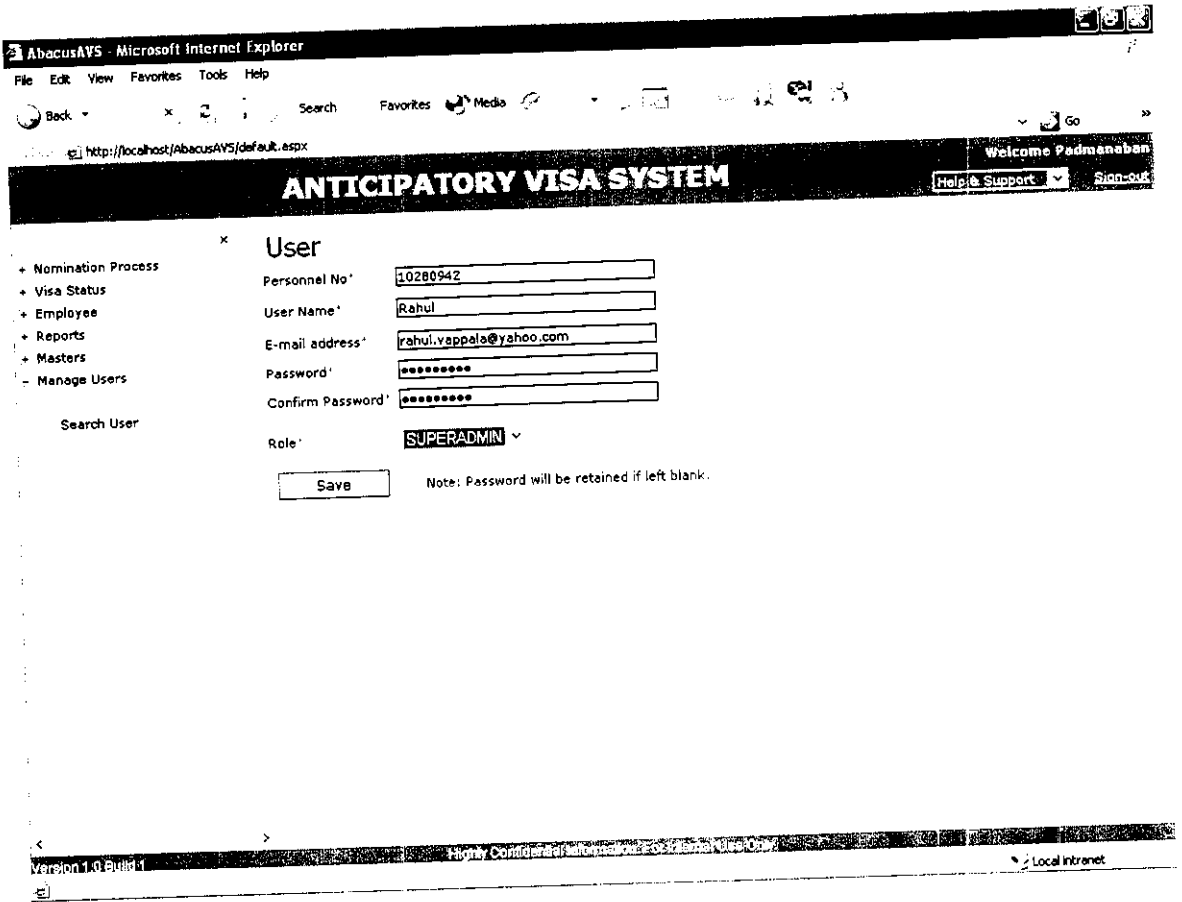


Figure A.6 Search User in AVS

AbacusAVS - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Media Go

http://localhost/AbacusAVS/default.aspx

Welcome Padmanaban

Help & Support Sign-out

ANTICIPATORY VISA SYSTEM

Search User

- Nomination Process
- Visa Status
- Employee
- Reports
- Masters
- Manage Users
 - Add User

Personnel No:

User Name:

Role:

Status	Personnel No	User Name	Email Id	Role
Deactivate	10280921	Padmanaban	p.padmanaban@yahoo.com	SUPERADMIN

Total Record(s) : 1

Version: 1.0 Build: 1.0

Local Intranet

Figure A.7 Visa Processing Rates for AVS

The screenshot shows a web browser window titled "AbacusAVS - Microsoft Internet Explorer". The address bar displays "http://localhost/AbacusAVS/default.aspx". The page header includes "ANTICIPATORY VISA SYSTEM" and a "Welcome Padmanabhan" message. A navigation menu on the left lists: "Nomination Process", "Visa Status", "Employee", "Reports", "Masters", and "Manage Users".

The main content area is titled "Visa Processing Rates" and shows the following details:

- VisaType: L1-B
- Date: [Empty field]
- Stage: [Empty dropdown]
- Docs Pending Employee: [Empty dropdown]
- Rate: [Empty input field]

Buttons for "Search", "Clear", and "Add" are present. Below the form, there is a table of records:

Stage	Date	Rate
Docs Pending Employee	03/01/2006	500.00
Docs Pending Employee	02/24/2006	222.00
Docs Pending Employee	03/01/2006	5000.00
Docs Pending Employee	03/17/2006	678678.00

Below the table, it indicates "Total Record(s) : 4" and an "Export" button. The footer of the browser shows "Version 1.0.0.0" and "Local intranet".

Figure A.8 Visa Popup

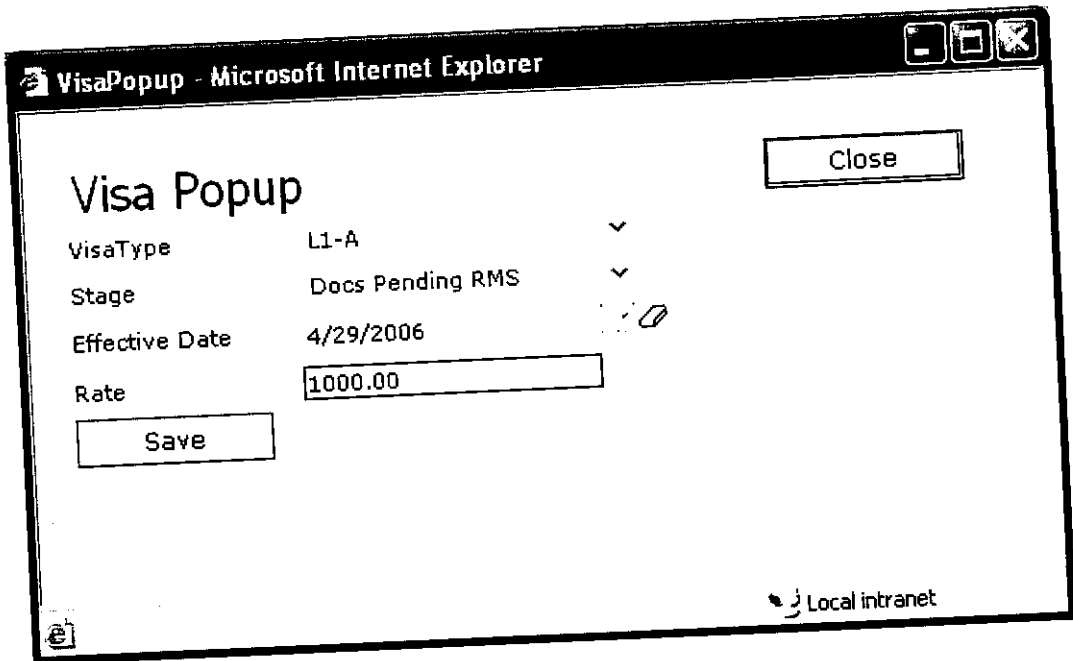


Figure A.9 Documents Pending Employees

The screenshot shows a web browser window titled 'AbacusAVS - Microsoft Internet Explorer'. The address bar shows 'http://localhost:AbacusAVS/default.aspx'. The page header includes 'ANTICIPATORY VISA SYSTEM' and a welcome message 'Welcome Padmanaban'. The main content area is titled 'Documents Pending - Employees' and contains a table with the following data:

Emp First Name	Emp Last Name	Emp No	QU #	Visa Type	Error Status	Error Reason
Mohamed	Mubarak	10061796	IND01	H1-B	N	
Pankaj	Trikha	10056922	IND01	H1-B	N	

Below the table, it indicates 'Total Record(s) : 2' and '1' records are shown. The page also features a navigation menu on the left with options like 'Nomination Process', 'Visa Status', and 'Employee'. A status bar at the bottom shows 'Version 1.0.0.1' and 'Local intranet'.

Figure A.10 Search/Update for AVS

The screenshot shows a web browser window titled "AbacusAVS - Microsoft Internet Explorer". The address bar displays "http://localhost/AbacusAVS/default.aspx". The page header includes "ANTICIPATORY VISA SYSTEM" and a "Welcome Padmanaban" message. The main content area is titled "Search/Update" and contains several search criteria fields: "DU #", "Capability", "Emp Name", "OG", "Emp ID", and "Stage". There are "Search" and "Clear" buttons. Below the search criteria, a table displays search results. The table has columns for "Emp Name", "Emp ID", "Level", "DU#", "Client", "Project", "Skill", "OG", "Capability", "Stage", and "Status". A single record is shown for Arun Kunjuraman. Below the table, there is a "Submit" button and a "Total Record(s) : 1" indicator.

Search/Update

DU # /

Capability /

Emp Name

OG Select OG

Emp ID

Stage Forwarded to attorney

Visa Type
USA H-1B Regular

Emp Name	Emp ID	Level	DU#	Client	Project	Skill	OG	Capability	Stage	Status	Pending	Approved	Reject
Arun Kunjuraman	10266157	SE	IND01	IDC	Abacus - Chennai	.Net	Internal	Netcentric-Microsoft	Forwarded to attorneys	Approved	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Total Record(s) : 1

Figure A.11 Documents Upload for AVS

AbacusAVS - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Media Go

http://localhost/AbacusAVS/default.aspx

Welcome Arun Konjuraman

Help & Support Sign Out

ANTICIPATORY VISA SYSTEM

Employee

Documents Upload

Document Type Photocopy-Semester Marksheet Location Browse... Accept

Visa Status

File Type	File Name	Delete
Employee Questionnaire(EQ)	EQ.doc	Delete
Assignment Questionnaire(AQ)	AQ.doc	Delete
CV-Accenture Format	CV.doc	Delete
Photocopy-Passport	passport.doc	Delete
Photocopy-Semester Marksheet	marksheet.doc	Delete

1

Submit

Following is the list of documents to be uploaded :

- 1) Employee questionnaire
- 2) Detailed up to date resume
- 3) Assignment questionnaire

Scanned copies of the following documents

- 1) Passport photocopy of all non blank pages
- 2) Photocopy of all semester marks sheets for graduation and post graduation (if applicable)

Version 1.0.0.1

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Figure A.12 Documents Verification in AVS

AbacusAVS - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites Media

http://localhost/AbacusAVS/default.aspx

Welcome Padmanaban

ANTICIPATORY VISA SYSTEM Help & Support Sign-out

Documents Verification

DU # Emp Name Emp ID
 Capability OG Select OG Stage Docs Pending - RMS
 Date

Emp Name	EmpID	Level	DU#	Client	Project	Skill	Status	OG	Capability	Visa Type	Date
Arun Kunjuranan	10266157	SE	IND01	IDC	Abacus - Chennai	.Net	Docs Pending RMS	Internal	Netcentric-Microsoft	L1-B	04/27/2006

Total Record (s) : 1

1

Version 1.0.0.0

Local Intranet

Figure A.13 Documents Verification Popup

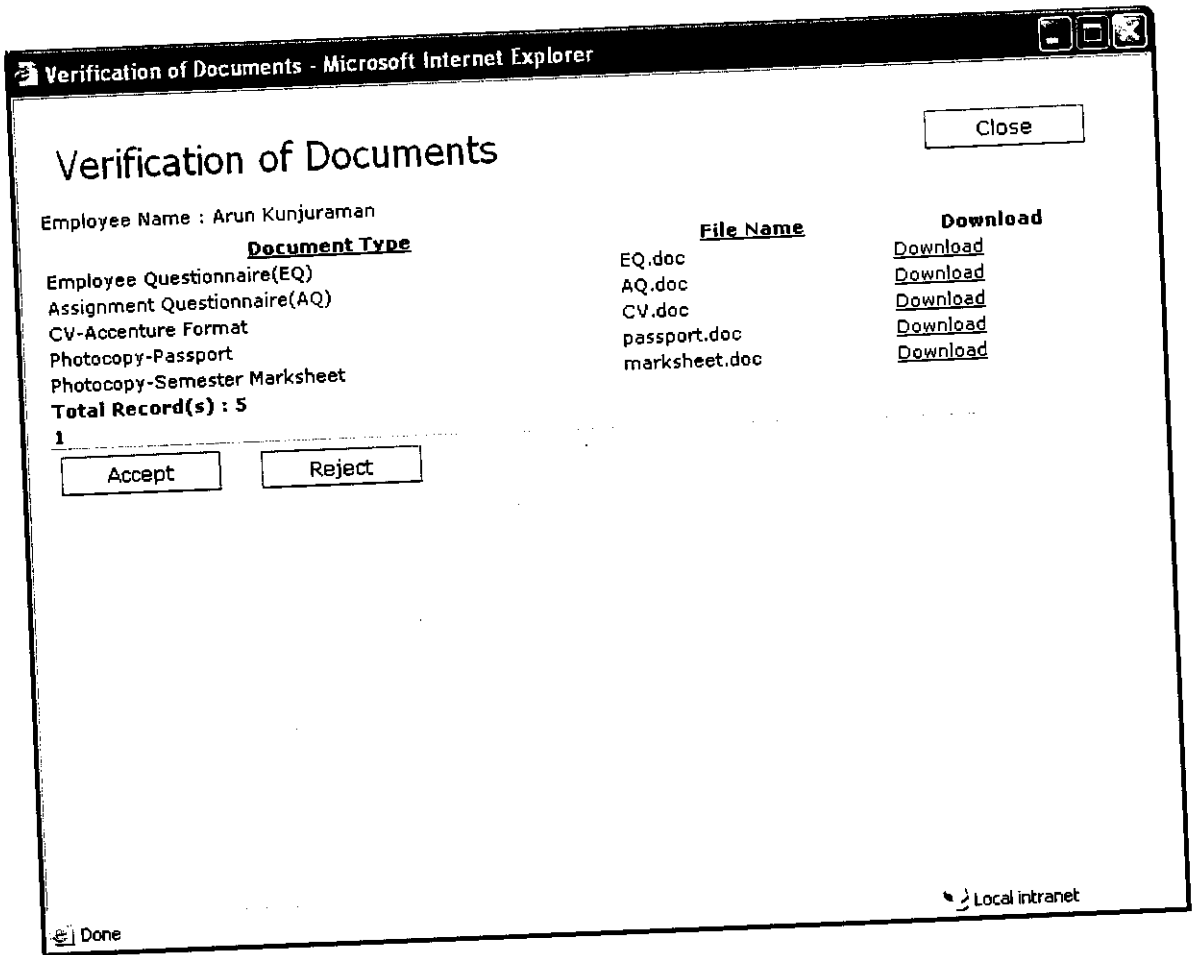


Figure A.14 Interviews Scheduled

AbacusAVS - Microsoft Internet Explorer
 File Edit View Favorites Tools Help
 Back Search Favorites Media Go
 http://localhost/AbacusAVS/default.aspx

ANTICIPATORY VISA SYSTEM Welcome Padmanaban Help & Support Sign-out

Interviews Scheduled

DU # Emp Name Emp ID

Capability OG Select OG

Transition	Emp Name	EmpID	Level	DU#	Client	Project	Skill	OG	Capability	Visa type	Interview Date	Interview Time	Interview Location
	Shantha Sheela	10162737	JSE	IND01	IDC	Abacus - Chennai	Java Testing - Mercury Tools	Internal Testing	L1-B		05/25/2006	12:00 A	Chennai

Total Record (s) : 1

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Figure A.15 Reverse Transition

AbacusAVS - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Media Go

http://localhost/AbacusAVS/default.aspx

Welcome Padmanaban Help & Support Sign-out

ANTICIPATORY VISA SYSTEM

Reverse Transition

- Nomination Process
 - Add Nomination
- Visa Status
 - Documents Pending - Emplo
 - Verification of Documents
 - Search/Update
 - Interviews Scheduled
- Employee
 - Documents Upload
 - Visa Status
- Reports
 - StageWise Reports
 - Visa Lag Report
 - Anticipatory Visa Budget
- Masters
 - Visa Processing Rates
- Manage Users
 - Add User
 - Search User

DU # Emp Name Emp ID

OG Select OG Stage Select Stage

Capability

Transition	Emp Name	EmpID	Level	DU#	Client	Project	Skill	OG	Capability	Stage
<input type="checkbox"/>	Arun Kunjuraman	10266157	SE	IND01	IDC	Abacus - Chennai	.Net	Internal	Netcentric-Microsoft	Docs Pending RMS

Total Record(s) : 1

Version 1 Build 1

Local intranet

Figure A.16 Stage Wise Report

AbacusAVS - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Media Go

http://localhost/AbacusAVS/default.aspx

Welcome Padmanaban

ANTICIPATORY VISA SYSTEM Help & Support Sign-out

Stagewise Report

DU # OG Select OG Stage Select Stage

Capability Emp Name Emp ID

Date Status Select Status

Emp Name	EmpID	Level	DU#	Client	Project	Skill	OG	Capability	Date	Stage	Status	Visa Type	Visa Appl#
Ramu Jayaraman	10150007	SE	IND01	IDC	Abacus - Chennai	.Net	Internal	Netcentric-Microsoft	04/28/2006	Nominated	Pending	H1-B	200604119
Shanmukha Nagesh	10154762	SSE	IND01	IDC	Abacus - Chennai	.Net	Internal	Netcentric-Microsoft	04/28/2006	Nominated	Pending	Not Identified	200604120
Sapana Sadanand Sankhe	10021668	SE	IND01	IDC	Abacus-Demand Managment	VB	Internal	Netcentric-Microsoft	04/28/2006	Nominated	Pending	L1-B	200604121
Sushil Bulchand Dudani	10129898	SE	IND01	IDC	Abacus-Recruitment	.Net	Internal	Netcentric-Microsoft	04/28/2006	Nominated	Pending	H1-B	200604122
Thotatri Pitchumani	10134229	SSE	IND01	IDC	Abacus - Chennai	.Net	Internal	Netcentric-Microsoft	04/28/2006	Nominated	Pending	L1-A	200604123
Aesim Dewawala	10251674	JSE	IND01	IDC	Abacus-Recruitment	.Net	Internal	Netcentric-Microsoft	04/28/2006	Nominated	Pending	H1-B	200604124
Payal Arya	10150028	JSE	IND01	IDC	Abacus-Recruitment	.Net	Internal	Netcentric-Microsoft	04/28/2006	Nominated	Pending	L1-A	200604125
Bindesh Vijayan	10150096	SE	IND01	IDC	Abacus - Chennai	.Net	Internal	Netcentric-Microsoft	04/28/2006	Nominated	Pending	H1-B	200604126
Debjani Seth	10152204	JSE	IND01	IDC	Abacus-Recruitment	.Net	Internal	Netcentric-Microsoft	04/28/2006	Nominated	Pending	L1-B	200604127
Somnath Das	10152879	JSE	IND01	IDC	Abacus-Recruitment	.Net	Internal	Netcentric-Microsoft	04/28/2006	Nominated	Pending	L1-B	200604128

Total Record(s) : 42

1 2 3 4 5

Version 1.0 Build 1

Local intranet

Done

Figure A.17 Visa Lag Report

AbacusAVS - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Media Go

http://localhost/AbacusAVS/default.aspx

Welcome Padmanaban

ANTICIPATORY VISA SYSTEM

Help & Support Sign-out

Lag Report

Emp Name Emp ID

OG Select OG

Search Clear

Emp Name	Emp ID	Level	OU	Client	Protect	Skill	Nominated	Docs Pending-Emp	Docs Pending-RMS	Fwd Attorneys	Fwd USCIS Recvd	Petitions Recvd	Intvw Booked	Intvw Scheduled	Visa Stamped	Visa Recvd	Total
aterejan	10150129	SE	IND01	IDC	-	Abacus - Chennai - .Net											0
anjuraman	10266157	SE	IND01	IDC	-	Abacus - Chennai - .Net 18		0									18
ima indaram	10277747	JSE	IND01	IDC	-	Abacus - Chennai - Entry Level 0	8	77	0	0	0	0	0	0			85

Record(s) : 3

Print

Version: 1.0.0.4

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Figure A.18 Anticipatory Visa Budget

AbacusAVS - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Search Favorites Media Go

http://localhost/AbacusAVS/default.aspx

ANTICIPATORY VISA SYSTEM

Welcome Padmanaban Help & Support Logout

Anticipatory Visa Budget

Emp Name Arun Emp ID
 OG Select OG VisaType L1-B

Emp Name	EmpID	Level	DU#	Client	Protect	Skill	OG	Capability	Stage	Visa Type	Cost Incurred so far (in \$)
Arun Kunjuraman	10266157	SE	IND01	IOC	Abacus - Chennai	.Net	Internal	Netocentric-Microsoft	Docs Pending	L1-B	4000
Total Record(s) : 1											

Version 4.0 Build 1

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3. <http://www.vbcity.com>