
SOFTWARE REQUIREMENTS SPECIFICATION

FOR

ALUMNI INFORMATION AND INTERACTION SYSTEM FOR DA-IICT

VERSION 1.0 APPROVED

PREPARED BY TEAM-18

DA-IICT

<DATE CREATED>

Table of Contents

Table of Contents	ii
Revision History	iii
1. Introduction	Error! Bookmark not defined.
1.1 Purpose	1
1.2 Intended Audience.....	1
1.4 Product Scope	1
1.5 References	Error! Bookmark not defined.
2. Overall Description	2
2.1 Product perspective	Error! Bookmark not defined.
2.2 Product Functions	Error! Bookmark not defined.
2.3 Client and Stake Holders.....	2
2.4 Visibilty Plan.....	
2.5 User Classes and Characteristics.....	2
2.4 Operating Environment	Error! Bookmark not defined.
2.6 Deliverables	
3. External Interface Requirements	Error! Bookmark not defined.
3.1 User Interfaces.....	Error! Bookmark not defined.
3.2 Hardware Interfaces	Error! Bookmark not defined.
3.3 Software Interfaces.....	Error! Bookmark not defined.
3.4 Communications Interfaces	Error! Bookmark not defined.
 //requirement analysis.	
5. Other Nonfunctional Requirements	9

5.1 Performance Requirements.....	9
5.2 Safety Requirements.....	9
5.3 Security Requirements.....	9
5.4 Software Quality Attributes	Error! Bookmark not defined.
5.5 Business Rules	Error! Bookmark not defined.

6. Feasibility Analysis

7. Project Estimation

8. Risk Analysis

9. User Manual

6. Other Requirements	11
Appendix A: Glossary.....	28
Appendix B: Analysis Models	28

Revision History

Name	Date	Reason For Changes	Version

1 INTRODUCTION

1.1 PURPOSE

The purpose of this document is to present the requirements and functionalities of the software to the developing team. This document also serves as an agreement between the project team and the client and will be very useful as a reference for the developing team to validate their progress from time to time during the development process of the project. The requirements are collected from end-users, clients through various “requirement discovery techniques.”[1]The requirement discovery techniques are questionnaires, research through websites and interviews.

1.2 INTENDED AUDIENCE

This document is intended to be used by the developers to validate their artifacts from time to time. It may also be used by the client to have a presumable idea of what is going to be delivered at the end of the project.

1.3 PRODUCT SCOPE

The project provides a means for the alumni to stay connected with the DAICT University.

The project aims to:

- Enhance the rapport between alumni with the current DAICT students and faculty at DAICT.
- Promote Intra-alumni interaction.
- Help in sharing the experiences of alumni with current students to have a better career guidance and to make right decisions in choosing electives, projects and internships.
- Bring people with common area of interest to exchange information like projects, internships and job opportunities.

Some of the salient features of this project are:

- Authenticated users can find alumni by using the advanced search facility.
- Registered users can locate alumni in a particular area or the area nearby, by pointing the location on a map.

- Each Registered user will be provided a separate profile page for filling and updating his/her details.
- Email notifications for the updates chosen during registration will be sent to the registered users.

The primary focus of the Alumni website is to benefit the alumni and students of DA-IICT.

Later on this project can be extended by providing more facilities.

For Example:

We can provide facility for users like recruiters, who are looking forward for the information about the students specialized in a particular area and also for the students enthusiastic to know about the status of the alumni and lurking to get admission into the college.

Some additional features like Alumni services, private messaging, surveys and polls can also be added in the future to make the site more sophisticated and advanced.

2 OVERALL DESCRIPTION

2.1 CLIENT AND STAKE HOLDERS

The DA-IICT Alumni committee headed by Prof. Vishwajit Pandya is the client of the project. The stakeholders of our project are:

- DAIICT Alumni
- Current students of DA-IICT
- Student placement committee
- Synapse committee

2.2 VISIBILITY PLAN

Interaction with client:

Interaction with the client will be carried on through weekly meetings and e-mail correspondences.

Interaction with stakeholders:

Interaction with stakeholders is being done through meetings, e-mails, and through social networking sites.

Interaction among team members:

Team members interact among themselves through the team meetings and E-mail correspondences.

2.3 TECHNICAL TOOLS

- The architecture Is Client Server Architecture
- Web Programming language: HTML, PHP
- Database: MYSQL
- Development Tools: Macromedia Dreamweaver, XAMPP

Software configuration Management tool[2]:

The developer team has planned to use Concurrent versions system (CVS) as the configuration management tool to share files among the team members.

2.4 DELIVERABLES

The deliverables to be delivered to the client are:

- Software requirements Specification document
- The final Product
- Source Code of the Final Project
- User Manual
- Installation Guide

3 FUNCTIONAL REQUIREMENTS

3.1 SYSTEM FEATURES

Registration and Log-In:

Description: “Registration” involves two stages. The first stage involves the user giving his/her name and DAIICT e-mail ID. Then, a confirmation request will be sent to his/her e-mail for verification. In the second stage, upon confirmation further details will be taken from the user. The “Login” is to authenticate the registered users. Registered users only can log in.

Inputs: Username, password (unique for each user if registered). After conformation, the details of the user will also be provided as an input.

Usage Flow: On logging in user will be led to the common home page.

Output: Website home page which consists of features listed below.

Actors: Alumni and present DAIICT students.

Error Conditions: During registration, when the provided e-mail ID is already registered a message indicating the error will be displayed. During logging, in case when username and password do not match an error message asking to verify the username and password will be displayed.

Profile of a User:

Description: User will be given a personal page to maintain his/her personal details and professional details. Two types of profile pages will be provided, one for alumni and another for faculty. Personal pages are provided only to alumni and faculty of DAIICT.

Input: Personal and professional details to be provided by the user.

Usage Flow: A registered user can access his/her personal page after logging in.

Output: Updated personal page.

Actors: Alumni and faculty.

Error Conditions: To be defined

Message Board:

Description: The Message board is mainly for promoting interaction among the users. Discussions on different topics such as higher studies, choosing between electives, career guidance, on going projects and other related issues.

Input: Starting a topic, replying to a topic.

Usage Flow: Once a user logs in, he/she will be able to view and post in the message board. However, user will be able to delete the post added by him/her.

Output: Updated message board.

Actors: Alumni, Faculty and DAIICT Students

Error Conditions: User will be restricted from posting an empty message or the same message again.

E-mail Notification

Description: This is meant for notifying the user by e-mail regarding any project in his/her areas of interest if the user wishes to get notified. This feature is for the alumni only.

Inputs: Boxes checked according to the user's areas of interest.

Usage Flow: Alumni will be able to change the option of getting notified at a later point of time.

Output: E-mail sent to the respective user.

Search Facility:

Description: This feature will be helpful for the user in listing out of alumni based on name, year of passing, areas of interest or expertise, university of study, internships, organization and electives.

Input: Name, year of passing, areas of interest or expertise, university of study, internships, organization and electives.

Usage Flow: User enters the search word and gets the results if any.

Output: List of the alumni members whose details match with the key word.

Actors: Alumni, Faculty and DAICT Students

Error Conditions: User is restricted to search with a blank field.

Locating Alumni:

Description: This feature enables to get the list of alumni in a place or city, located by the user on a map provided by the site. The listed out alumni will also include who are near by to the place located by the user.

Input: Location on a map clicked by the user.

Usage Flow: The map provided for this feature will be divided into reasonably small parts so that each registered user can categorize him/her into the location they belong to. A user during the second stage of registration process will click on respective location on the map where he/she resides and the same input will be used for providing the results for a user who will use this feature for listing out alumni.

Output: The alumni in the particular location and surroundings will be listed out.

Actors: Alumni, Faculty, DAICT Students and other web users also.

Opportunities:

Description: This section consists of three sub-sections each on projects, internships and job opportunities.

Input: Updates by the alumni on available projects and internships and also information on job opportunities.

Usage Flow: User will directly go this module for finding out the various areas in which he/she will be able to have an opportunity

Output: Display of updated information.

Actors: Alumni, Faculty, DAIICT Students

Error Conditions: Restricting the user from posting blank data.

Achievements:

Description: This section displays the alumni, student and faculty achievements such as any awards. It is open to all.

Input: Updates on achievements by registered users.

Usage Flow: When the user clicks on the topic or the news headline then he is directed to original citing such as a newspaper publication or to the official site of the event description.

Output: Display of the updates.

Actors: Alumni, Faculty, DAIICT Students and other web users.

Error Conditions: Restricting the user from posting blank data.

Bulletin Board:

Description: This section shows campus news which includes the upcoming and ongoing events. This is periodically updated.

Input: Updates on the events by moderator.

Usage Flow: The user will be given a short description of the news headline upon mouse over.

Output: Display of the event as a flash object.

Actors: Alumni, DAICT Students and other web users.

Alumni News Letter:

Description: This is a magazine which will be released periodically containing news of the alumni and their related issues.

Input: A document file will be uploaded whenever a newsletter is released.

Usage Flow: User will be able to download the newsletter document.

Output: A link will be provided for the document uploaded.

Actors: Alumni, DAICT Students and other web users.

Contributions:

Description: This section gives the contact details of the person who will help the user to contribute to the college.

Input: NA

Usage Flow: User will be provided with a link from where he will be directed to the page consisting the contact details.

Output: NA

Actors: Alumni, Faculty and other web users.

Error Conditions: NA

4 NONFUNCTIONAL REQUIREMENT

4.1 PERFORMANCE REQUIREMENTS

Alumni Information and Interaction system is a web based application, a multi user system, so the response time for any functionality, must be minimized to as low as possible. Search Facility, which is based on querying database, must be able to handle large number of queries at a time. Database must have the ability to accommodate the increasing number of users every year.

4.2 SAFETY REQUIREMENTS

All the information will be stored in a database which will be updated as soon as there are any changes made by the registered user in the website in each and every feature. Database is crucial for search facility, which will be using the data from database. Database must be secured. An administrator will be given a secure log-in to the database, with all necessary permissions. He/she will maintain the database and back up the data periodically.

4.3 SECURITY REQUIREMENTS

Alumni, Faculty and DAIICT Students must be provided with a secure Log-in through a Username and Password (which they will choose during registration process). A secure session to all the registered users must be provided.

5 PROCESS MODEL:

While choosing the process model, the following factors have been taken into account [3]

- Likelihood of changes in the requirements.
- Styles and preferences of development team.
- Trade-offs between time to market and reliability.

The above factors in an elaborative form:

- As the requirements have been collected from the client and after discussion with him in detail, we hope that requirements would not change too much. However system is flexible so that new features can be added at later point without affecting the present features.
- Tasks are given to all the subgroups such that they can be completed in parallel. These sub teams consolidate their progress and complete the given task on time. Similarly different tasks will be completed and milestones achieved, leading to the completion of the project.
- The reuse of software components and the API's (Application Program Interface) that are reliable are chosen.

The below process is likely to be followed [4]:

- 1) Requirements gathering from client and stakeholders.
- 2) Feasibility study.
- 3) Identification of reusable components.

4) Modification of the requirements.

5) Database design

6) Interface Design

7) Implementation

-Writing the code on the top of the components so that they fit our requirements.

8) Testing

9) Deployment

Some of the features of the CBSE (Component Based Software engineering) and RAD (Rapid Application Development) are followed.

6 FEASIBILITY ANALYSIS[5]

The purpose of feasibility analysis is to assess the capability of the project in achieving the given objectives with in the given time and with the given resources.

6.1 PROCESS OF ANALYSIS:

The feasibility of the project is explained with the help of the following four types of feasibilities.

- Operational feasibility
- Technical feasibility
- Schedule feasibility
- Economic feasibility

6.1.1 OPERATIONAL FEASIBILITY:

This section gives an idea of how effectively this project solves the problem that is being addressed. The objective of the project is to help alumni stay connected with the college and also to promote the interaction between the DAIICT students and DAIICT alumni. This kind of interaction helps students mainly to choose their electives, projects and internships. Alumni website solves this problem by providing a common platform to the students and the alumni. The following information explains the operational feasibility of the project:

- Since the website is intended to help both alumni and students (who are the information providers along with the moderator), postage of reasonably accurate information is understood and thus assured. In case of any abuse or incorrect information or messages, the moderator will take care of such situations by removing such information and by asking the person through mail to update the correct information.
- The security for the website is being assured by providing authentication. Only the authorized alumni, students or moderator can login into the site to change its contents. However, the main source code of the project can only be edited by the moderator.
- Our project makes maximum use of the resources like the developer's skills, stakeholders (for information), and required technologies.
- The system is flexible in the sense that it is a typical web application and modifications can be made. It can be easily expanded by adding more features.
- The website with its features is easy to use as the targeted end users are having prior experience in using internet.

Hence, from the above points we can say that the project can solve the problem efficiently to the satisfaction of the end users and so it is operationally feasible.

6.1.2 TECHNICAL FEASIBILITY:

Technical feasibility can be explained by understanding the practicality of the solution, possession of necessary technology and possession of necessary technical expertise.

- We would use open source software to develop the source code and we also possess the hardware required like computers with capability to run the software.
- The developers are convinced and confident that they can learn to use the software that is new and write the source code required.

Hence, the above information explains the technical feasibility of the project.

6.1.3 SCHEDULE FEASIBILITY:

This section explains if the project schedule is reasonable or not.

- Considering the present technical expertise we possess, and that is required to learn, a schedule has been planned for the project.
- The time or days allotted for each phase of the project is reasonable. Based on the complexity of each tasks in the project and also considering our capabilities we have allotted time for each task such that all the milestones that are set can be reached in planned time.

6.1.4 ECONOMICAL FEASIBILITY:

Our project involves very little costs. Economic feasibility is the feasibility of meeting the project development and maintenance costs.

- There will be no system development costs as open source software is being used. The system operating costs are minimal and can be neglected.
- System maintenance costs will be minimum for the administrator to take care of.

Hence, from the above points, the project is economically feasible.

Hence, the project is operationally feasible and is also planned in terms of technology and time available to make it feasible in all ways.

There are alternate solutions to some of the problems being addresses like having a social networking site. But, by having an alumni website for DAIICT with the features that are useful for us and alumni and the reason that it has more probability of the alumni to get connected with the college makes this a better and effective solution.

7 PROJECT ESTIMATION[6]

This particular section on cost estimation aims to provide an estimate of the development cost for our project. The amount of effort to be put in by the members of the team to attain the feasibility of the project in the stipulated time can be known.

The procedure employed in estimating the cost for this project are Function Point analysis and Constructive Cost Model(COCOMO).

7.1 INTERNAL LOGIC FILES:

1. Login details of users. (L)
2. Discussion arena.(A)

3. Opportunities module.(A)
4. Bulletin board.(A)
5. Newsletter archive.(L)
6. Alumni profile.(H)

7.2 EXTERNAL INPUTS:

1. “Register” option New Alumni Details.(A)
2. “ Edit profile” option for alumni(A)
3. Save profile(A)
4. Add a post in discussion arena.(L)
5. Delete a post in discussion arena.(L)
6. Enable or disable e-mail notification.(L)
7. Uploading of news letter by moderator.(A)
8. “Add opportunities” option for alumni to update, which will be displayed in home page.”(A)
 - “Add projects”
 - “Add internships”
 - “Add Job opportunities”
9. Menu selection (A)

7.3 EXTERNAL OUTPUTS:

1. Error messages.(A)
2. Output after user enters a “Search” option.(H)
3. Map generated output.(H)

4. Retrieving/ creating webpage for registered/ new user respectively.(A)

7.4 EXTERNAL INQUIRIES:

- 1) Search(H)
- 2) “Next” option in Discussion arena.(L)
- 3) “Previous” option in Discussion arena.(L)
- 4) Locating alumni through map.(H)
- 5) Authentication for Alumni login (For Registered users) (A)

UAF CALCULATIONS:

	LOW	AVERAGE	HIGH	
External Inputs	3*3	4*6	6*0	33
External Outputs	4*0	5*2	7*2	24
External Inquiries	3*2	4*1	6*2	22
Internal Logic Files	7*2	10*3	15*1	59
External Interface Files	5*0	7*0	10*0	0
			TOTAL	138

UAF Total = 138

VAF CALCULATIONS:

S.NO.	GENERAL SYSTEM CHARACTERISTICS	VALUE OF GSCI
1	DOES THE SYSTEM REQUIRE RELIABLE BACK UP AND RECOVERY?	5
2	ARE DATA COMMUNICATIONS REQUIRED?	4
3	ARE THERE DISTRIBUTED PROCESSING FUNCTIONS?	0
4	IS PERFORMANCE CRITICAL?	4
5	WILL THE SYSTEM RUN IN AN EXISTING, HEAVILY UTILIZED OPERATING SYSTEM?	5

6	DOES THE SYSTEM REQUIRE ON-LINE ENTRY?	5
7	DOES THE ON-LINE DATA ENTRY REQUIRE THE INPUT TRANSACTION TO BE BUILT OVER MULTIPLE SCREEN OR OPERATIONS?	1
8	ARE THE MASTER FILES UPDATED ON-LINE?	3
9	ARE THE INPUTS, OUTPUTS, FILES, OR INQUIRIES COMPLEX?	4
10	IS THE INTERNAL PROCESSING COMPLEX?	4
11	IS THE CODE DESIGNED TO BE REUSABLE?	3
12	ARE THE CONVERSION AND INSTALLATION INCLUDED IN THE DESIGN?	3
13	IS THE SYSTEM DESIGNED FOR MULTIPLE INSTALLATIONS IN DIFFERENT ORGANIZATIONS?	2
14	IS THE APPLICATION DESIGNED TO FACILITATE CHANGE AND EASE BY THE USER?	3
TOTAL		43

$$\begin{aligned}
 \text{VAF Total} &= 0.65 + 0.01 * \text{Total (GSCi)} \\
 &= 0.65 + 0.01 * 43 \\
 &= 1.08
 \end{aligned}$$

FINAL FUNCTION POINT COUNT (FP):

$$\begin{aligned}
 \text{FP} &= \text{UAF} * \text{VAF} \\
 &= 138 * 1.08 \\
 &= 149.04
 \end{aligned}$$

LOC CALCULATION:

The mainly used programming language is PHP. From the table of LOC per function point, an average of 63 LOC for one FP is found.

$$\begin{aligned}\text{Total LOC} &= 63 * 149.04 \\ &= 9389.52\end{aligned}$$

CONSTRUCTIVE COST MODEL:

As our project is *SEMI-DETACHED* type the value of **a = 3.0** **b = 1.12** **d = 0.35**

$$\begin{aligned}\text{Effort in person months (PM)} &= a * (\text{SIZE or LOC})^b \\ &= 3.0 * (9.38952)^{1.12} \\ \text{PM} &= 36.85\end{aligned}$$

$$\begin{aligned}\text{Development Time (D) in Months} &= 2.5 * \text{PM}^d \\ &= 2.5 * (36.85)^{0.35} \\ \text{DM} &= 8.835\end{aligned}$$

Since we have staff of 12 people,

$$\begin{aligned}\text{Development time} &= \text{PM}/\text{staff} \\ &= 36.85/12 \\ &= 2.14 \text{ months}\end{aligned}$$

8 RISK ANALYSIS

8.1 DEFINITION:

Risk is the condition or event whose occurrence is not certain but can cause the project to fail.
A risk is a probability that some adverse circumstance will occur.

- Project risks affect schedule or resources.
- Product risks affect the quality or performance of the software being developed.

- Business risks affect the organization developing or procuring the software.

Risk Mitigation involves various measures to be taken to avoid the risk.

Risk Monitoring is the factors that we track to enable us to determine if the risk is becoming high or less.

Risk Management (Fallback Plan) indicates what contingency plans we have, if the risk becomes a reality.

8.1.1 Size underestimate [7]:

This risk leads to the wrong estimation of the size of the final product due to the change in the requirements of the customer. As our website needs database whose data is dynamic and may vary with time, this risk is more likely. The underestimation of size may lead to lowering the performance of the software.

Mitigation: Enough care must be taken to provide reasonable size for the database.

Monitoring: Assess the risk regularly to decide whether it is becoming less or more probable. Each key risk should be discussed at team progress meetings.

Fallback Plan: Make provisions to increase the database size, by taking the help of the concerned authorities.

8.1.2 SECURITY [8]:

This risk arises when a user's private profile is not secure and is modified or deleted by another person who is not the righteous owner of the profile.

Mitigation: User can avail the system functionality only after secure login which authenticates the user about his identity.

Monitoring: The user can always notify the administrator in case of his profile being tampered without his knowledge. Extra time is devoted towards the security issues during all the phases of development and discussed periodically in the team meetings.

Fallback Plan: If the administrator is notified about a user profile been tampered, then the profile of such user is updated from the backup data by the moderator.

8.1.3 TECHNOLOGY RISK[9]:

The project requires extensive programming in web based languages, as the team is not well-versed in this area the technology risk arises.

Mitigation: Before the Development phase the team organizes a few training sessions to get acquainted by exploring and discussing the tools that are going to be used.

Monitoring: Throughout the development phase the team takes extra care so that, every person's knowledge of the tools involved is optimum.

Fallback Plan: Extra time is spent by the team in acquainting with the underlying languages. This is done more effectively by forming sub-groups and learning each of the tools intensively.

8.1.4 RISK DUE TO LACK OF EXPERIENCE[9]:

This arises when the team is new to the area of software development and is unaware of the various nuances of the phases of software process.

Mitigation: Interaction with professionals in the field of software development and take suggestions regarding the possible problems that we may face due to lack of experience.

Monitoring: In every phase of development, the suggestions of the professionals are elicited and used during the development, so as to counter the inexperience of the team.

Fallback Plan: Discuss the problem with the experienced people and find proper solutions to the problem. The team reviews each phase thus applying the experience into the next phase.

8.1.5 RISK DUE TO SCHEDULE MANAGEMENT:

This risk arises due to bad planning or off days or illness of a team member. This could substantially delay the scheduled deliverables and milestones of the project.

Mitigation: While planning the project care is taken so that the deadlines are not stringent and can be relaxed by sometime without affecting the project as a whole.

Monitoring: The team monitors the team schedule at every phase if the milestones and deadlines are met as planned.

Fallback Plan: In the absence of a team member, his work is confiscated among the rest of the team without affecting the schedule.

USER MANUAL

ALUMNI INFORMATION AND INTERACTION SYSTEM

❖ Alumni

- Registration
- Login to website
- Edit Preferences of Email notification
- Upload new projects details
- Upload new internships details
- Upload job opportunities details

- Participate in discussion Forum
- Manage profile
 - Edit own profile 02
 - Change password 03
- Search
 - By Student Name
 - By DAIICT ID
 - By Current working company
 - By Current working location
 - Map Based Search
 - Text based Search
 - By permanent address location
 - By Area of interest
 - By university of higher education
 - By electives taken in DAIICT
- View Profiles
- View Bulletin Board
- View student achievements
- View Newsletter

❖ Present students

- Registration
- Login to website
- Participate in discussion Forum
- Search
 - By Student Name
 - By DAIICT ID
 - By Current working company
 - By Current working location
 - Map Based Search
 - Text based Search
 - By permanent address location
 - By Area of interest
 - By university of higher education
 - By electives taken in DAIICT
- View Profiles
- View Bulletin Board
- View student achievements
- View faculty links and their projects

- View Newsletter

❖ Other Web Users

- View Newsletter

1. How to Register?

Your Registration involves two stages.

In the first stage you have to fill up the fields in your registration page, a conformation mail with a URL will be sent to the DAIICT e-mail ID you have given in the registration page.

The account you have registered will be activated when the conformation URL is clicked.

Thus your account is registered and ready for use.

2. *How to Login to website?*

The registered users can login to the website by entering his/her username and password that are provided to him/her during his/her registration. These fields have to be entered in the Username and Password fields present in the front page of the website.

3. *How to get details regarding projects/internship/job opportunities that are provided by the alumni and faculty?*

Go to the column for **Opportunities** in the web site and select your desired Option **Project/Internship/Job** and you will be directed to a webpage where you have to choose your Area of Interest from the options provided. It will direct you to the page containing the information you requested for.

4. *How to upload new projects details?*

You can upload the details of project offers by going into the column for **Opportunities** in the website and selecting the Option **Projects and** you will be directed to a webpage where you have to choose the “Area of Interest” to which your project belongs to from the options provided. Then you will be directed to the webpage, where you can upload your project offer details.

5. *How to upload new internships details?*

You can upload the details of Internship offers by going into the column for **Opportunities** in the website and selecting the Option **Internships and** you will be directed to a webpage where you have to choose the “Area of Interest” to which your internship belongs to from the options provided. Then you will be directed to the webpage, where you can upload your internship offer details.

6. *How to upload job opportunities details?*

You can upload the details of job offers by going into the column for **Opportunities** in the website and selecting the Option **Jobs** and you will be directed to a

webpage where you have to choose the “Area of Interest” to which your job belongs to from the options provided. Then you will be directed to the webpage, where you can upload your job offer details.

7. How to edit my profile?

Once you login into the site you need to go to your **Profile page** to update it. Your **Profile Page** can be accessed by clicking on the **View Profile** option in the **Home Page** after you login to the website.

An **Edit** option is provided on the top of the **Profile page** which on clicking will enable you to change any option you want and once the **Submit** button is clicked your profile is updated.

8. How to search for alumni?

i) Search by Student name

Go to the **Search Page** by the link provided in the **Home Page** of the Website.

Enter the **Name** of the student or part of the student’s name by selecting the **Search by Name** option in the **Search page**.

You will be displayed a list of names of the students matching the input and a by clicking on a desired name you will be directed to their **Profile page**.

ii) Search by Student ID:

Go to the **Search Page** by the link provided in the **Home Page** of the Website.

Enter the **ID** of the student by selecting the **Search by ID** option in the **Search page**.

You will be displayed a list of names of the students matching the input and a by clicking on a desired name you will be directed to their **Profile page**.

iii) Search by Current working company

Go to the **Search Page** by the link provided in the **Home Page** of the Website.

Enter the **Current Working Company** of the student by selecting the **Search by Current Working Company** option in the **Search page**.

You will be displayed a list of names of the students matching the input and a by clicking on a desired name you will be directed to their **Profile page**.

iv) Search by Current Location

Go to the **Search Page** by the link provided in the **Home Page** of the Website.

Enter the **Current Location** of the alumni by selecting the **Search by Current Location** option in the **Search page**.

You will be displayed a list of names of the students matching the input and a by clicking on a desired name you will be directed to their **Profile page**.

v) Search by Permanent Address Location

Go to the **Search Page** by the link that is provided in the **Home Page** of the Website. Enter the **Permanent Address Location** of the student by selecting the **Search by Permanent Address Location** option in the **Search page**.

You will be displayed a list of names of the students matching the input and a by clicking on a desired name you will be directed to their **Profile page**.

vi) Search by Area of Interest

Go to the **Search Page** by the link that is provided in the **Home Page** of the website. **Choose** the Area of Interest of the student from the drop down menu that is provided. You will be displayed a list of names of the students matching the input and a by clicking on a desired name you will be directed to their **Profile page**.

vii) Search by University of Higher Education

Go to the **Search Page** by the link that is provided in the **Home Page** of the website. Enter the name of the **University of Higher Education** of the student by selecting the **Search by University of Higher Education** option in the **Search page**.

You will be displayed a list of names of the students matching the input and a by clicking on a desired name you will be directed to their **Profile page**.

viii) Search by Electives taken at DAICT

Go to the **Search Page** by the link provided in the **Home Page** of the Website.

Select the **Elective** taken by the student from the drop down menu provided and select the **Search by Electives taken at DAICT** option in the **Search page**.

You will be displayed a list of names of the students matching the input and a by clicking on a desired name you will be directed to their **Profile page**.

xi) How can I search for alumni from the map?

Go to the webpage containing the **Map** by the link that is provided in the **Home Page** of the Website. Click on a location on the map and a state map of the location you have clicked will be displayed. Cities where the alumni are present are shown with specific markers. By clicking on a specific marker, you can view the names of the alumni who are present in and around that specific location. In addition to their names, their current location and permanent address will also be displayed. From the list of names, you can click on a name to view their profile.

9. How to view my profile?

Click the **View Profile** option on the **Home Page** of the Website. Then you will be directed to your Profile Page

10. View Newsletter

A **News Letter** column is on the Website **Home Page** which on clicking shall direct you to a page that contains the present and previous **archives of Newsletters** and they can be downloaded by clicking on the desired one.

APPENDIX A: GLOSSARY

DA-IICT	- Dhirubhai Ambani Institute of Information and Communication Technology
HTML	-Hyper Text Mark up language is a web programming language to produce web pages.
PHP	-Hyper Text Preprocessor is a web programming language to produce dynamic web pages.
MYSQI	- The database management system used as a database for web applications.

XAMPP -XAMPP is a free, cross-platform web server, consisting mainly of the Apache HTTP Server, MySQL database, and interpreters for scripts written in the PHP and Perl programming languages.

XAMPP's name is an acronym for:

* X (which signifies X, meaning any of the four operating systems; Microsoft Windows, Linux, Sun Solaris, Mac OSX)

* Apache

* MySQL

* PHP

* Perl

TBD-To be determined

NA -Not applicable

APPENDIX B:

<http://www.psgtechalumni.org/>

<http://www.iitfoundation.org/msgboard/>

<http://www.baruch.cuny.edu/alumni>

<http://www.uhsalumni.com/#ALUMNI>

<http://alumni.iitg.org/index.php>

<http://www.iitkalumni.org/directory/findfriend.asp?letter=A>

<http://www.iimaalumni.org/n/front/home/index.asp>

REQUIREMENTS GATHERING - INTERVIEW 1

Participants:**Interviewers:**

- T.Vamsi Krishna
- I Naga Vishnu Kanth
- P.Varun Rajendra

Interviewee:

- P.Vijay Aditya (DA-IICT 2003 batch)
- M.M.Sandeep (DA-IICT 2003 batch)

Date: 18/01/08.

Time: 9:30pm

Duration: 30 minutes

Place: Lab Building, DA-IICT

Purpose of Interview:

Gather requirements regarding the system from perspective of Alumni

Agenda:

- What are the reasons for not having a alumni website for DA-IICT?
- What are the uses of having an alumni website for DA-IICT?
- What are the features to be present in this alumni website we intend to build?

Interview Summary:

DA-IICT has an alumni website but presently out of order. The website has not been familiar with the DA-IICT student community. Alumni website will be a good idea to implement for the benefit of alumni. Alumni may need some help from the students studying here.

The features which were discussed are:

- Giving a profile page for alumni
- A place of discussion for the interaction of alumni and present students
- Alumni must be able to upload the details of their projects done in DA-IICT and their area of interest.
- Alumni must be made aware of the happening events in the college.
- An email notification is to be sent to alumnus to update their profile if they have not visited the website for some time duration.

REQUIREMENTS GATHERING-INTERVIEW 2

Participants:

Interviewers:

- Srujan Kumar V.H.N
- P Sai Charan
- P.S.V Surya Narayana

Interviewee:

- Umesh Parasar (DAIICT MTech Batch 2005)
- Rahul (DAIICT MTech Batch 2005)

Date: 19/02/08

Time: 10:00AM

Duration: 30 minutes

Place: Laboratory building, DA-IICT

Purpose of Interview:

Gather requirements regarding the system from perspective of a Alumni

Agenda:

- What are the reasons for not having a alumni website for DA-IICT?
- What are the uses of having an alumni website for DA-IICT?
- What are the features to be present in this alumni website we intend to build?

Interview Summary:

Alumni are willing to guide their juniors in aspects of career, electives.

Alumni website will be a good idea to implement for the benefit of alumni. Alumni may need some help from the students studying here.

The features which were discussed are:

- Updates on student achievements are to be present on this website
- Alumni must be able to upload the details of their projects done in DA-IICT and their area of interest.
- An email notification is to be sent to alumnus to update their profile if they have not visited the website for some time duration.

REQUIREMENTS GATHERING – QUESTIONNAIRE FOR PRESENT STUDENTS OF DA-IICT

QUESTIONNAIRE FOR THE PROJECT:

PROJECT NAME: ALUMNI WEB PLATFORM FOR DA-IICT

As a part of our Software engineering course project, we are developing an Alumni Web platform for DA-IICT.

The main aim of the project is to help the Alumni to stay connected with the college. The project also aims to enhance the rapport between Alumni with the current students and faculty at DA-IICT.

1. In what aspects have you felt the need for your seniors' advice?

- Higher Studies
- Job Opportunities
- Electives
- Internships
- Projects

If others, please Specify.

2. What help or facilities do you expect from the Alumni Site?

- Forum
- RSS Feeds
- E-mail Notification
- Alumni newsletter
- Information on projects, internships and Job opportunities to be updated by Alumni
- Our College updates (regarding upcoming and ongoing events)
- Faculty links and their projects
- Student achievements (alumni achievements and also current student achievements).
- Important and useful website links.
- Surveys and Polls
- Photo Galleries
- Private messaging with online alumni.

If other than the given, please Specify.

3. What kind of features would you like to search about alumnae?

Search by:

- Name
- Student Batch
- Electives
- Areas of interest (specialization)
- Working Organization
- Current working place/Current Address
- Permanent Address
- Universities (Post Graduation)
- Internship Organization

If any other searches by facility you would like to have, please Specify:

4. For what kind of updates in the alumni website do you think that the e-mail notification would be beneficial?

- New Projects
- Internships Offers
- Student achievements

Any others please specify:

5. Any comments or suggestions, we would be pleased to have your valuable feedback:

RESPONSE RESULTS FOR QUESTIONNAIRE:

The total responses collected were 54.

- For the first question, 51 respondents have voted for all options. 2 respondents have not voted for the electives option. 1 respondent has voted only for Higher Studies option.
- For the second question where all the intended features were listed out, the total responses were 56. Every respondent voted for Forum, Email notification, Newsletter, Student achievements, college updates, Website links, Information on projects. 30 respondents have voted for RSS feeds. 45 respondents have voted for faculty links. 43 respondents have voted for Surveys and polls.
- For the third question, all the 56 respondents voted for the options except Electives, where only 45 respondents have voted for electives.
- For the fourth question of email notification, we had 36 responses. All the responses have voted for all options. 2 responses have asked to include the option of events going on in college.
- For the fifth question of feedback for the project, 6 responses have suggested to take care of security issues. 1 response has provided the links of two alumni websites of other colleges.

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