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1 INTRODUCTION

- Preliminary means something else something That comes before
- Denoting an action on event preceding on in Preparation for something more important designed to orient or acquaint with a situation before proceeding.
- To develop an alumni management system for our college firstly we discuss an idea with our Prof. Shamik Rathod.
- It the discussion sir suggest us to find similar websites of other colleges or universities from India or abroad.
- So we have an idea how our site can be looked and how it works.
- We find and researches for so many sites related to our project or get an idea and suggestion how many pages we need to develop and more.
- In this Investigation we also search for abroad university's or college's sites.
- After all the researches and Investigation we finally get it to from where we can start to development.
- But this Investigation is not enough to develop the site there are so many factors we need to research that we discuss in next topics.

1.1 PROJECT SUMMARY:

- The Alumni Management system is a simple PHP/MYSQL project that helps college manages its alumni data certain University/College management its alumni data.
- This project has 2 Sides of users UI (user Interface), which are the admin side/school management and the alumnus side.
- The admin side can manage all the list of job posted, alumni list, events, forum topics, and the gallery.
- The alumni side con create an account (to be verified by admin), post a job opportunity, create a forum topic, and join to other forms, commit to participate in a coming upcoming event such as home coming.
- Talking about the flow of the Alumni Management system, universities / colleges school alumni will register to the website and this process will need the

- verification of the school management in order to enlist the alumnus in the website.
- After the admin will verify the user as an alumnus of the college the alumni user can begin to explore the Features on functionalities of the system on their side.
- Which are the job opportunities posted by other alumni or admin, a list of upcoming events, joining Alumni to the forum with the other
- For the administrator side of the system side from verifying the account and list of alumni the admin also will manage the gallery many contain some images of the school events with a sort description.
- The admin will create the about content of the college to be displayed also on the website, this feature helps the college management update the about content of the system easily even without the presence of a developer.
- The admin can overwrite also post a job opportunity and can or manage the posted job and forum topic of an alumnus if any instances may occur.
- Alumni association is an association of graduates on more broadly, of former student.
- It provides a variety of benefits and services, that help alumni maintain connection to their educational institution and fellow graduates.
- Alumni association are mainly organized around. Universities on departments of universities, but may also be organized among students that studied in a certain country.
- In the past, they were often considered to be the universities. Network or schools of old students.

Background Information:

- Alumni are one of the most important assets to any University.
- They are the people who represent the university in the real world
- Many alumni network initially started from regional groups of alumni brought together for university fundraising activities.
- Later, these networks slowly gained added. Importance in the development of the university because of their enormous outreach potential that benefits the university and helps other societies In their career paths."
- Alumni association has been in existance for decades and they are constantly changing with time.
- There have been very big changes in the recent years with the development of the internet-and social networking that forces the alumni system to undergo huge changes.
- Therefore, it is really important for universities to focus on the alumni networks and find ways to enhance their growth and development.

• The system called "alumni association management System CAAMs) proposed in this ideas offers an inter mix of traditional alumni systems and social networking sites.

ABSTRACT:

- The college alumni website is an application that will allow the college management to store the details of the old and new students of the College.
- This project is aimed at developing a Repository and each Engine for alumni of the college which is of importance to a college.
- The alumni Information Database is a web based. Application that can be accessed throughout the world.
- Anyone can access the search engine to know about any alumni of that college but can't able to add.
- This system can be used as an application for the alumni information database to manage the college information and student- information.
- The details just of the Students one mouse click.

1.2 PURPOSE: GOALS & OBJECTIVES

> OBJECTIVES:

- Alumni system used to be an important past assure the effective strategy implemented within the university.
- It is the way graduates can share ideas and future project of their current cancer.
- It takes the priority in supporting the graduate toward facting issues with their first step in the company and sharing experiences.
- The ability to get improved with the overall quality of university help the educational tools used in the and suggest some other courses that to fulfill the economical demand and trend.
- The objective of this application is to allow old and new students of a university or college to communicate with each other.
- This allows students to their current activities. know about other and
- The objective of our project is to develop a GUI based software i.e. platform independent + user friendly & which can be fit into any college system. It will remove data redundancy and will be fast in operation.
- The main problems with the present college management software are:
 - -Platform dependency.
 - -Data redundancy problems.

- Slow in execution.
- -Threat to security level
- -Improper beginner
- Our software will faced overcome all these problems. By any college management software.
- As a part of this project following things will be implemented:

1Content Management:

• The portal is escorted with a content management system used for storing controlling, versioning, and publishing university specific documentation.

2 Event Management:

- The events section will offer a user-friendly Enviornment for facility scheduling and event
- Management.

The events section provides centralized management of all your small to mid size events.

3 Discussion Groups (forums):

- Making the site a hub for information and discussion encourages visitors to return again. and again
- It's also the highly effective way of improving service to customers or website. users of the

4 career center:

- Attribution has been all Organizations Common issue in almost
- In order to tackle the problem the portal will provide a career center.
- This provides advertising for the vacancy in addition to the existing measures the university takes for recruitment.

5 Marks Revaluation system:

- This module will deal with the re-valuation of KT papers and getting updated result online.
- Student will be kept updated about the entire process.

> GOALS:

Develop a global community

With the sheer range of travel options and opportunities for studying and living abroad, students that attended a UK university could find themselves living in practically any country in the world. A focus on developing a global community can therefore nurture a sense of belonging that surpasses borders and encourages engagement from across the globe.

Encourage two-way communication

While it's vital that you can send your alumni updates, it's just as important to ensure they can get in contact with your organisation. Two-way communication channels using a dedicated platform can provide alumni with the opportunity to connect with one another as well as the relevant staff, helping to promote collaboration.

Seeking regular feedback from your alumni can also be instrumental to improving the efficacy of your alumni association.

Connect with prospective students

When you have prospective students on campus, the presence of alumni can be incredibly influential when it comes to encouraging them to study at the institution. Not only can alumni enlighten prospective students regarding the experience of studying at the university or college, but they can also provide them with invaluable career insights and wisdom.

Foster a spirit of loyalty

A sense of loyalty is essential to the continued success of every educational institution. By hosting events, organising thoughtful campaigns, and adopting a philanthropic approach, an active alumni association can help to instil this spirit of loyalty in both current students and alumni that graduated decades ago.

1.3 HARDWARE AND SOFTWARE REQUIREMENTS.

> Hardware:

System type	64-bit Operating System
Processor	Intel(R) CORE (TM) is-6400 CPU @ 270 GH2 270 GH2
Memory	4.00 GB

> Software:

Platform	windows
Operating System	Windows11 pro
Front end	PHP
Back end	MYSQL
Editing Tool	Notepad++,Notepad
Browser	Google Chrome
Data Base	MYSQL

2.0 SYSTEM ANALYSIS:

- Analysis is the process of considering carefully or using statistical methods in order to understand it or explain it or explain it.
- Analysis is the process of breaking a complex topic or substance into smaller parts in order to gain better understanding of it
- Analysis is the process of examining something in detail to understand its nature on to determine its essential features.

2.1 STUDY OF CURRENT SYSTEM:

- Many colleges maintain present and old students. manually
- Recollecting this data in the manual system is very difficult.
- If student needs any data about old students.
- They have to approach college management.
- Overall collecting the information is very Tedious task in this system.
- The existing system is a computerized system but which is maintained at individual database. I.e. in excels sheets, it's a time delay process. And maintaining all the records in excel sheets is difficult.
- It doesn't provide multiple user accessibility and also doesn't have different user privileges so the system is not accessible for all the employees of the organization.
- In the current system, since it is used computerized in some way in addition to paper, those who perform that activity doesn't need more of computer knowledge.
- since there is no more work in addition to excel and word program and managing is simple those who have less knowledge of English language
- Since mostly used local language while communication It is also allows physical interaction of individuals with their friends.

2.2 PROBLEM AND WEAKNESSES OF CURRENT SYSTEM

Advantages

1) Customization:

• Maintaining an individual database allows for a high level of customization, enabling the organization to tailor the system to meet specific needs and requirement.

2) Better data management:

• By storing data in an individual database, it becomes easier to manage and organize the data effectively.

• The data can be easily searched filtered and sorted based on various criteria, which makes it easier to track and monitor alumni activity.

3) Increased efficiency:

- An alumni management system that is maintained in an individual database can improve efficiency by Reducing the time required to access and retrieve data.
- This can help alumni associations respond quickly to inquiries and to process requests more efficiently.

4) Improved communication:

- A database that is, specifically designed for alumni management can help improve communication between the alumni association and its members.
- The systems can be used to send out newsletters, event invitations and other important.

Disadvantages:

- 1) Maintain two portals is costly.
- 2) No link between Alumni portal and college portal for existing students.
- 3) No direct flow of information from ex-students to current students.
- 4) NO SMS or e-mail notification in case of any events posted alumni has to login to portal to know about new Events or updates.
- 5) Alumni has to go to college for any document. that is required for higher studies for which he has to take a leave from his office on find time from his busy schedule.
- 6) The current system is not completely complete computerized and manual system in entering students and staff data and handling it.
- 7) There is no centralized database maintenance.
- 8) There is no easy access to the particular Students record.
- 9) The student cannot easily navigate through the database
- 10) University, almost most of them are using alumni, association as a system.
- 11) this way of managing system doesn't give mare sense in their work since most of the time information's regarding their system is posted on notes board and the beneficiaries are only those who lives belongs to around their i.e. it is difficult to manage the alumni who live far from the university.

- 12) The energy system also takes much time and tor contact alumnus when needed and using phone number and Gmail as a method of an interaction doesn't give much more scenes.
- 13) Using paper and excel sheets for data storage have a great risk and there is no effective data protection.
- 14) The status of the alumni also does not updated easily and not uniform redistribution for all members at the same timer.

2.3 REQUIREMENTS OF NEW SYSTEM:

- This project allows students to register through online.
- The students can easily data access old students data.
- Students can redirectly communicate with old students regarding job or any enquiry, and this project has many additional features.
- The proposed system is a computerized system but which is 'maintained at centralized databases.
- I.e. In automated forms it's a very fast process.
- And maintaining all the records in online systems database which makes it very easy to access and retrieve data from the database.
- If they want any record can easily search all the records it provides multiple user accessibility and also has different user privileges.
- So the system is accessible for all the employees of the organization.
- As a part of this project following things will be implemented:

1) Enterprise social Networking:

• The first type of interaction to enhance alumni networking is social interaction we not only let you perform social interaction between the institution and its alumni members but also, and more importantly between the alumni members themselves.

2) Giving Back to Institution:

- "An alumni association or convocation is solely a network for social interaction that has cost initiatives valuable financial and human resources"
- Our portal helps universities looking to their alumni association either for fundraising or to access feasibility of those units.

3) Content Management system:

• The portal is escorted with content Management system used for storing controlling, versioning and publishing university specific documentation.

4) Event management:

- The events section will offer a user-friendly enviornment for facility scheduling and event management.
- The events section provides centralized. management of all your small to mid-size events

5) Discussion Groups (Forums):

• Making the site a hub for information and discussion encourages visitors to return again and again. it's also a highly effective way of improving the service to customers or users of the website

6) Career center:

- Attrition has been a common issues in almost all organizations
- In order to tackle the problem, the portal will provide a career center
- This provides advertising for the vacancy in addition to the existing measures the university takes for recruitment.

7) Marks Revaluation system:

- This module will deal with the revaluation of KT. papers and getting updated result online.
- Student will be kept updated about the entire process through SMS notification and email.

8) SMS Notification:

 The portal will also have facility to send notification in case of any upcoming event or job opportunities posted on a portal that users of portal are aware of the updates on portal.

2.3.1 Advantages:

- 1) It is completely automated system in handling the college database.
- 2) This system provides easy access to the particular Students accounts or his complete details.
- 3) This system provides centralized database maintenance.

- 4) This system provides students to easily navigate through the application for more information in o most secure manner.
- 5) The objective of the Alumni Management system is to provide better information for the users of this system easily from anywhere without facing any difficulty.
- 6) Efficient communication:
- The system provides a platform to establish better communication between alumni and the Institution, as well as among alumni themselves.
- -The system and news can send targeted messages, updates, letter to alumni based on their interests and involvement in the institution.

7) Increased Engagement:

The system cam help the institution to engage with its alumni by providing them with opportunities to participate in events, fund-raising compaigns, mentoring program and other activities.

-This can help to build stronger relationships between alumni and the institution.

2.3.2 Disadvantages:

- 1) Provide appropriate information to alumni so that he will be intersted by alumni system.
- 2) Allow alumni to create his profile and update its contents every where time and every
- 3) Make communication between system and user easy Program so that every alumnus can use the
- 4) Allow private or government employees to seek alumni through their career improvement.
- 5) Create forum discussion between all college alumni in organized way.

2.4 FEASIBILITY STUDY:

- Feasibility study is detailed analysis that considers all of the critical aspects of a proposed likelihood project in order of it succeeding.
- An alumni management system is software. Application designed to streamline and enhance communication between a school on university and its alumni.
- The purpose of this feasibility study is to determine the viability of implementing an alumni management system for a particular educational institution.

2.4.1 Technical Feasibility:

- During Technical feasibility is the process of figuring out how you're going to produce your product or service to determine whether it's Possible for your company.
- During this study. It was found that the organization The has enough resources to implement new system.
- There already exists a computer system with suitable hardware and software in the concerned organization.
- Technical feasibility includes 2 main aspects:
 - o Hardware feasibility.
 - Software feasibility

Hardware feasibility:

• To implement this project we need different types of hardware and client. Configuration for server and client.

Software feasibility:

- This system is developed using vb.net.
- All the resources used for the development of the project are available.
- The system can be expanded as required in feature and modified with the change of arts and mules. Accuracy, reliability, easy of access and security of the system is Maximum.
- The tools to be used and efficient. are highly reliable updated
- Thus the proposed system is technically feasible.

2.4.2 Economical Feasibility:

• Economical feasibility is the most important study that determines the cost and benefits of the proposed system and compare with the budget.

- The cost of the new system does not out weight the budget the cost of the project includes the cost hardware, software development and implementation.
- The new system also provides benefits that are expected from the proposed system and compare these with costs expected to spent on development of the system Benefits are found to more than costs, thus it is decided to develop new system.
- The new system provides both tangible and intangible benefits in a formal way.
- Thus the new system is economically feasible.

2.4.3 Operational Feasibility:

- Operational feasibility is the measure of how well a proposed system solves problems and takes advantage of the opportunities identified during scope definition and how it satisfies the requirements identified in the requirements. Analysis phase of system development.
- It was found that the new system is both economically and technically feasible.
- The next step is to be Determine there it is operationally feasible or not.
- During operational feasible study, it was found that
 - The system operates in the way that user wants.
- There is enough human resources and there are qualified and experienced man power available for the development and implementation of the system.
- The new system is acceptable to the people and management.

2.4.4 Social feasibility:

- Social feasibility analysis is an essential social input into low cost sanitation project work.
- The purpose of this report is to access the social feasibility of developing an alumni management system.
- Specifically, this report aims to evaluate the system's potential impact on stakeholders and society as a whole.

This report focuses on social aspects of tithe proposed system and examines whether it would be beneficial to the target audience.

Social Impact:

The development of an alumni management system would have several social impacts:

[1]Foster community Engagement:

The system would help promote a sense of community among alumni which could lead to increased participation in events donations. and networking opportunities.

[2]Enhance Networking opportunities:

The system would enable alumni to network with each other, which could lead to opportunities for collaboration, mentorship, and job opportunities.

[3] Boost Institutional visibility:

The system could help Increase the institution's visibility among the broader community, which could lead to increased support and collaboration.

[4] Enable Efficient communication:

The system would enable the institution to communicate efficiently with its alumni, which could lead to enhanced engagement, participation and donations.

In conclusion the proposed alumni management system is socially feasible.

2.5 DATA MODELING

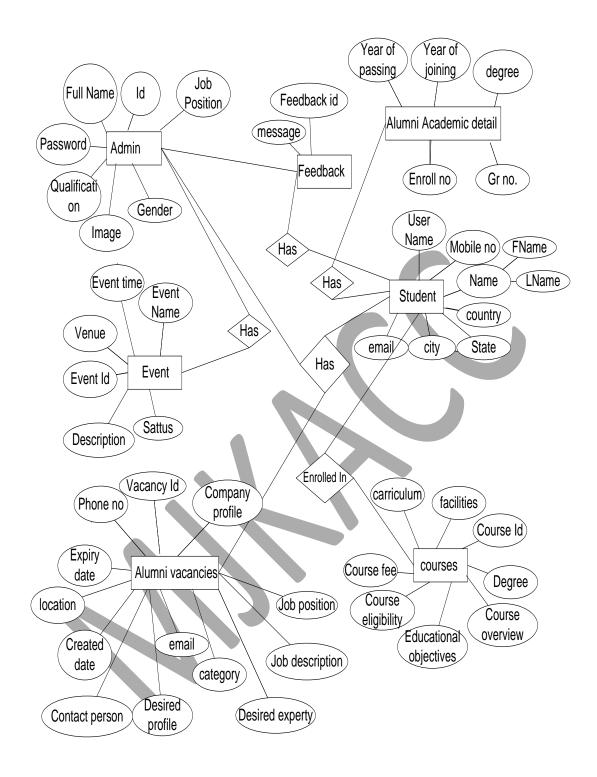
- Data modeling is a core data management discipline. By providing a visual representation of data sets and their business context, it helps pinpoint information needs for different business processes. It then specifies the characteristics of the data elements that are included in applications and in the database or file system structures used to process, store and manage the data.
- Data modeling can also help establish common data definitions and internal data standards, often in connection with data governance programs. In addition, it plays a big role in data architecture processes that document data assets, map how data moves through IT systems and create a conceptual data management framework. Data models are a key data architecture component, along with data flow diagrams, architectural blueprints, a unified data vocabulary and other artifacts.
- Traditionally, data models have been built by data modelers, data architects and
 other data management professionals with input from business analysts,
 executives and users. But data modeling is also now an important skill for data
 scientists and analysts involved in developing business intelligence (BI)
 applications and more complex data science and advanced analytics.

2.5.1 E-R DIAGRAM:

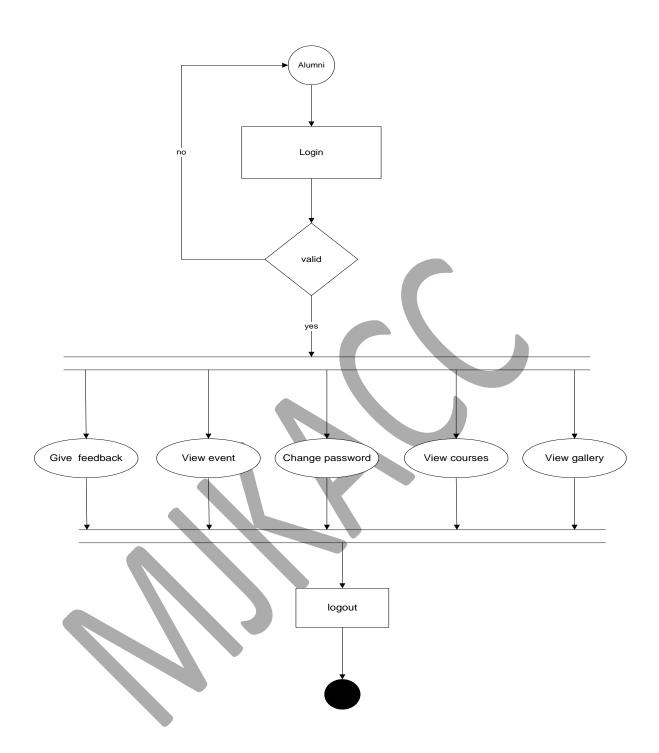
- ER Diagrams model are used to represent the E-R in database, which the makes them easy to convert into relations.
- ER diagrams provide the purpose of real world modeling of objects which makes them intently useful.
- ER Diagrams require no technical knowledge and no hardware support.
- These diagrams are and easy to create very easy to understand even for a naive user.
- It gives a data logically. standard solution for visualizing the symbols used in ER Model:
- •Rectangles: Rectangles represent Entities in the ER Model,
- •Ellipses: Ellipses represent Attributes in the ER Model,
- •Diamond: Diamond represent Relationships among Entities.
- Lines: Lines represent attributes to entities. and entity sets with other relationship types.
- Double Ellipse: Double Ellipsesrepresent Multi- valued Attributes:
- •Double Rectangle: Double Rectangle represents a weak Entity.

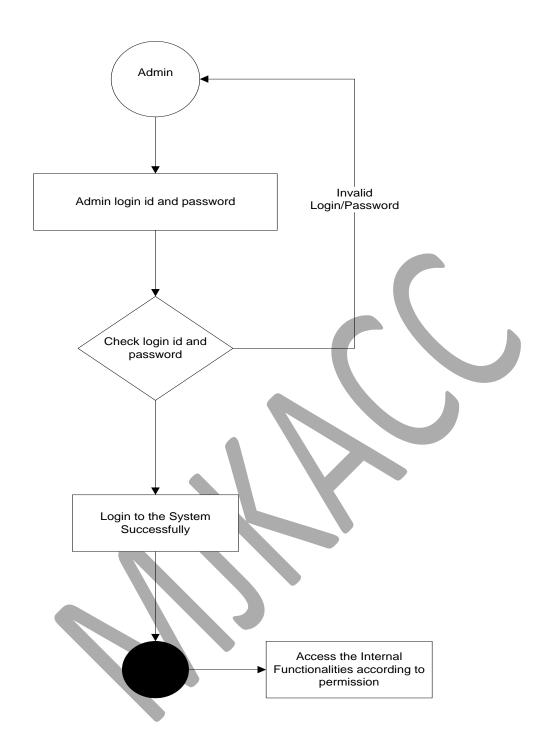
Has defined one to many to many one to one relationship.





2.5.2 SYSTEM ACTIVITY OR OBJECT INTERACTION DIAGRAM:





2.5.3 DATA DICTIONARY

 A data dictionary is a document that provides detailed information about the data used in a system, including the definition, structure and usage of each data element.

• Alumni Events

Field Name	Data Type	Size	Discription	Example
Event Id	int	20	Unique id	123093
Event Name	varchar	20	Name	Farewall
Event Date	Date/time	10	Date of event	08-4-23
Event time	Date/time	10	Time of event	10:00 am
location	varchar	30	location	Rajkot
Description	varchar	100	About event	Information

Registration

Field	Data Type	Size	Discription	Example
Name				
User name	varchar	30	Name	Krishna
Password	varchar	30	Unique id	Kjoshi@510
First name	varchar	30	First name	krishna
Last name	varchar	30	Last name	joshi
Birth date	Date/time	10	DOB	26-04-2022
City	Varchar	20	Current city	Rajkot
State	Varchar	20	Current state	Gujrat
Country	Varchar	20	Current country	India
Email	varchar	30	abc@gmail.com	kj@gmial.com
Phone no.	int	10	123546415	2635175862
Profile		200	Photo of user	Image
photo				

Feedback

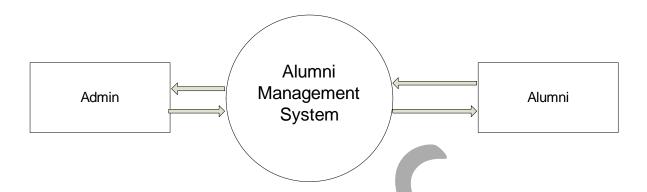
Field Name	Data Type	Size	Discription	Example
User Id	Int	10	User id	Hemz26
Feedback Id	Int	10	Unique Id	1234567
Feedback message	Varchar	100	Message	Message
Student Name	Varchar	50	Full Name	Misha Mehta

Courses

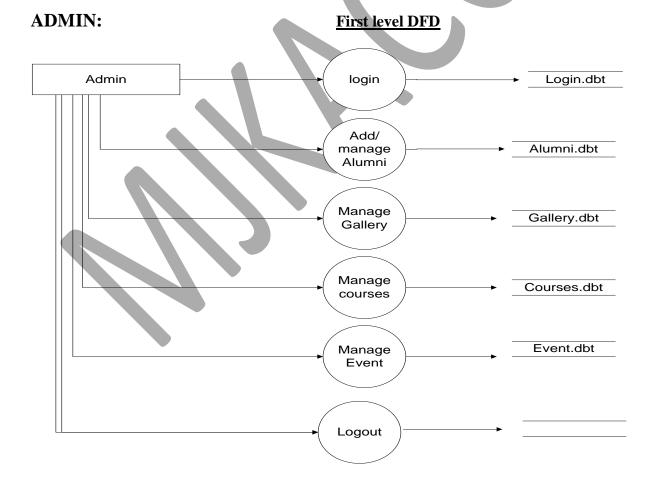
Field	Data Type	Size	Discription	Example
Name				
Course id	int	10	1	5
Course title	varchar	50	Bca/b.com/b.a.	Bca
Course description	varchar	500	Bachelor of ComputerApplication	Bachelor of ComputerApplication
Course duration	varchar	3	4 year	4 year
Course eligibility	varchar	20	12 pass	12 pass
Course fees	Int	10	25000	25000

2.6 FUNCTIONAL AND BEHAVIORAL MODELING

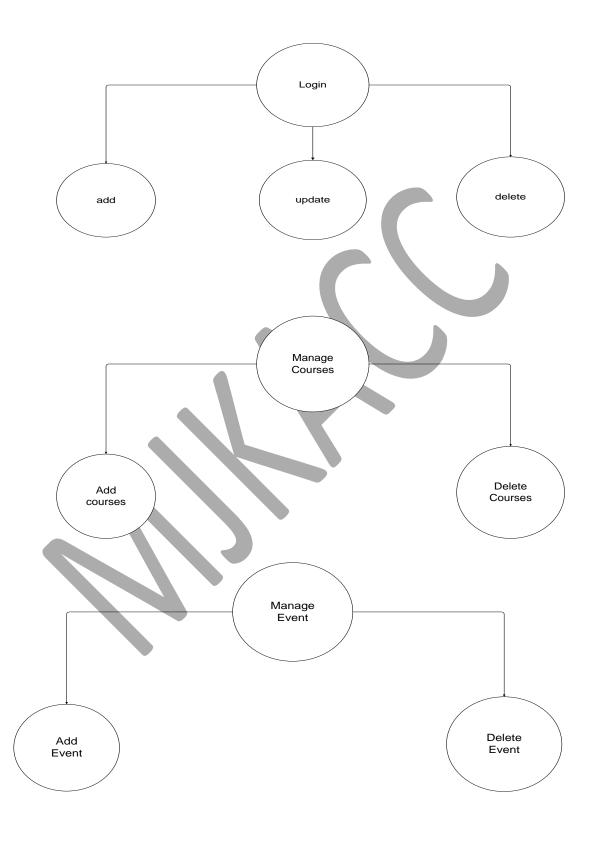
2.6.1 CONTEXT DIAGRAM

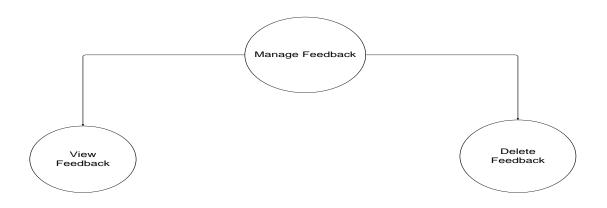


2.6.2 DATA FLOW DIAGRAM

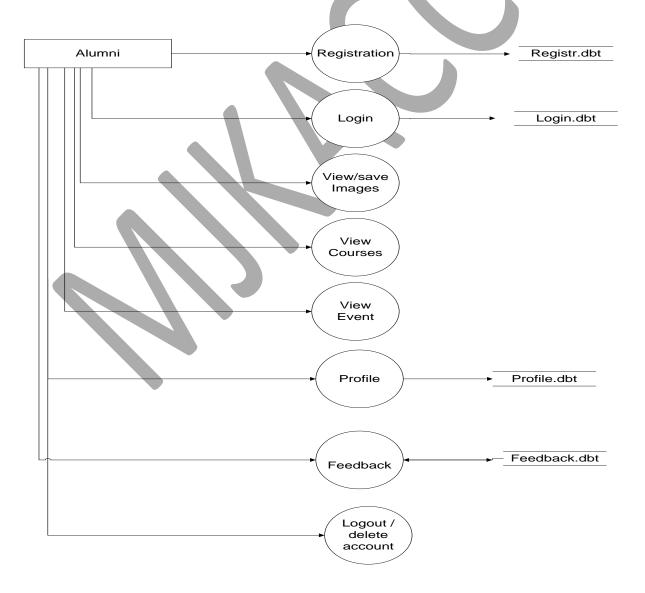


Second level DFD



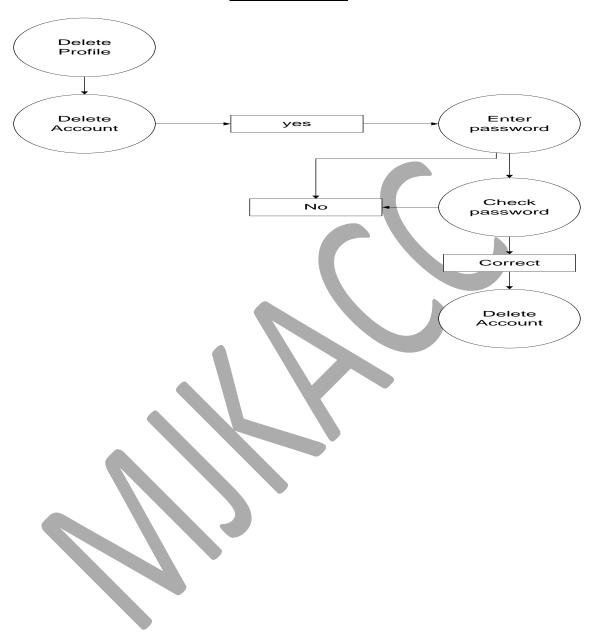


ALUMNI: <u>First level DFD</u>



Second Level DFD Registration Admin Check accept or reject request Login yes No Login Password Email Feedback Give Feedback

Third Level DFD

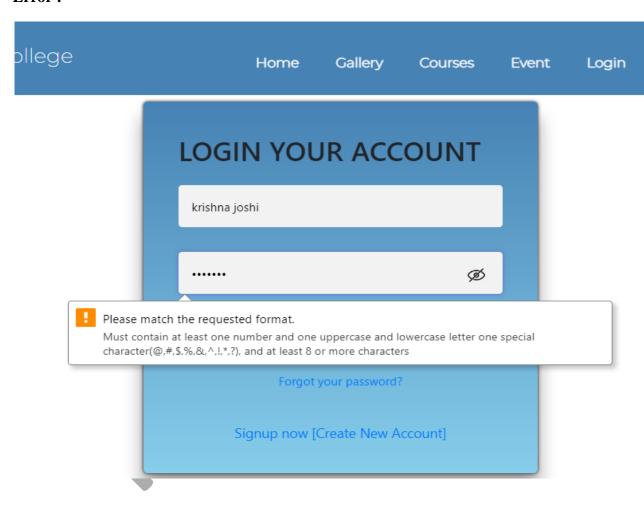


3.0 TESTING

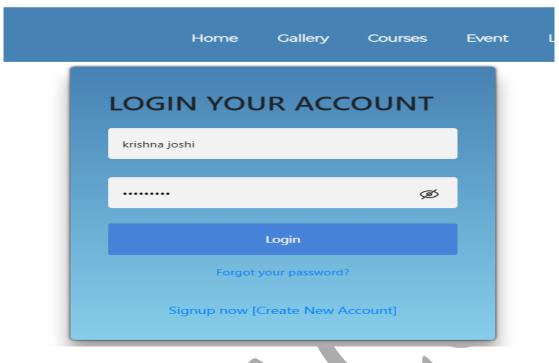
• Black box testing

Black box testing, a form of testing that is performed with no knowledge of a system's internals, can be carried out to evaluate the functionality, security, performance, and other aspects of an application. Dynamic code analysis is an example of automated black box security testing.

Error:



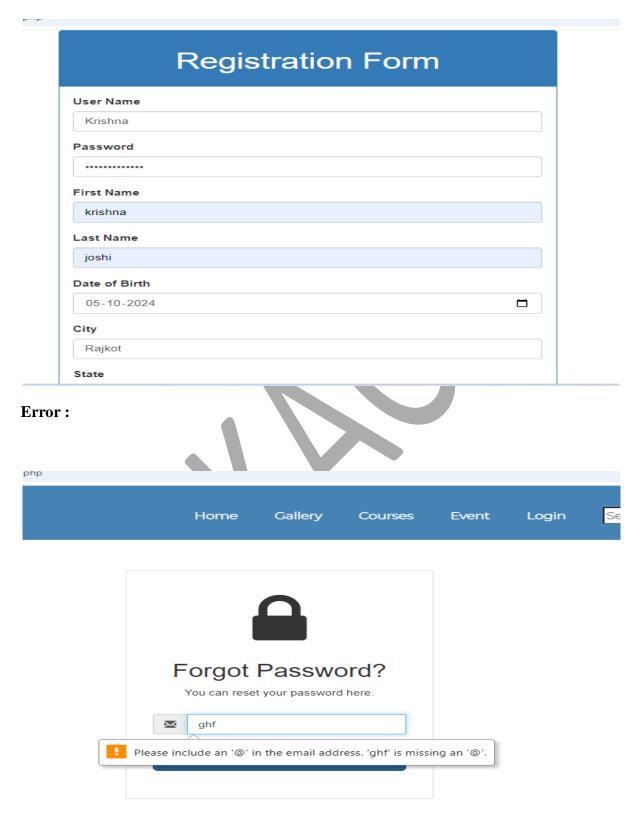
Solution:



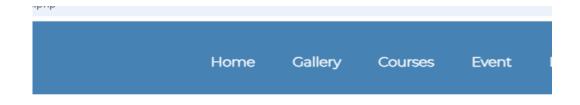
Error:

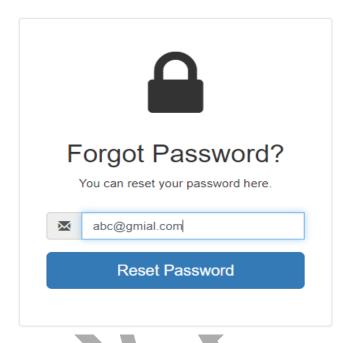


Solution:



Solution:

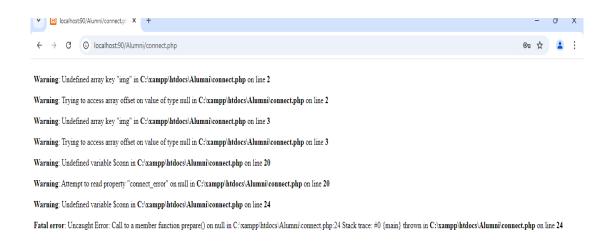




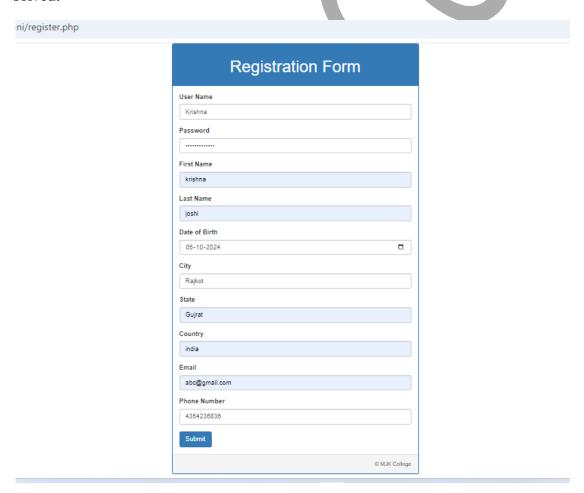
White box testing

White Box testing is based on an analysis of internal working and structure of a piece of software. White box testing is the process of giving the input to the system and checking how the system processes that input to generate the requied output. It is necessary for a tester to have full knowledge of the source code.

Error: After Register Admin Click On Submit Button.



Solution: It's because of connection error after add connection error will be solved.



• GRAY BOX TESTING

Gray Box Testing is a software testing technique that is a combination of the <u>Black</u> <u>Box Testing</u> technique and the <u>White Box Testing</u> technique.

In the Black Box Testing technique, the tester is unaware of the internal structure of the item being tested and in White Box Testing the internal structure is known to the tester.

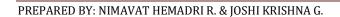
The internal structure is partially known in Gray Box Testing.

This includes access to internal data structures and algorithms to design the test cases.

Gray Box Testing is named so because the software program is like a semitransparent or gray box inside which the tester can partially see.

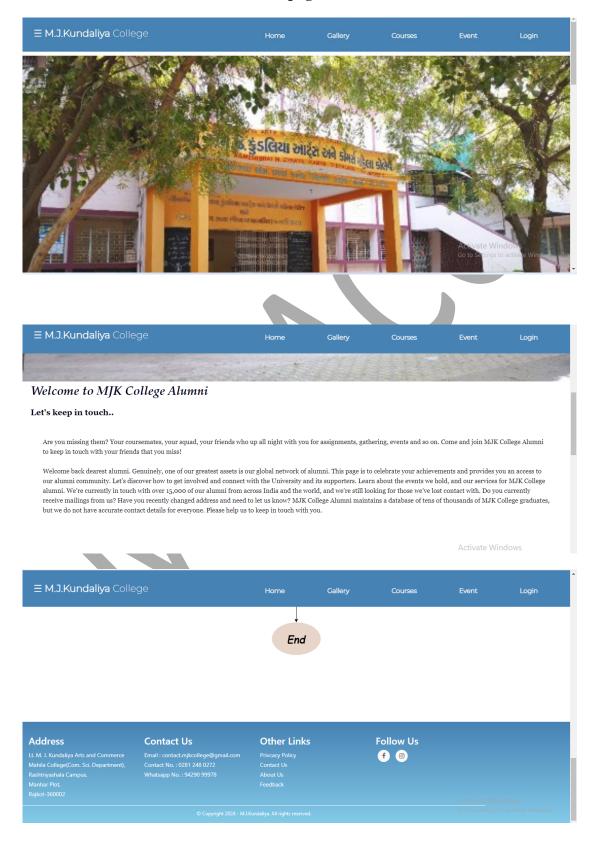
It commonly focuses on context-specific errors related to web systems.

It is based on requirement test case generation because it has all the conditions presented before the program is tested.



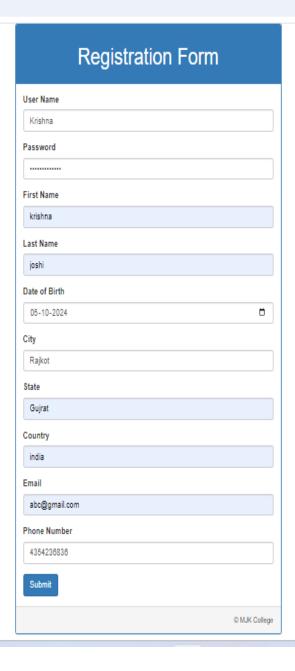
4.0 SCREENSHOTS AND USER MANUAL

Home page

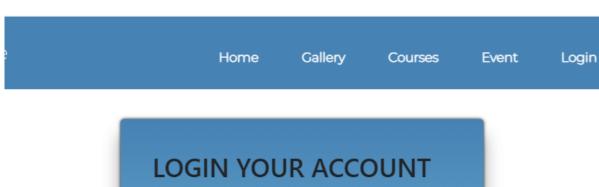


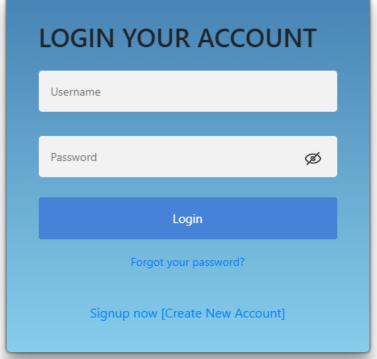
• Registration form

ni/register.php

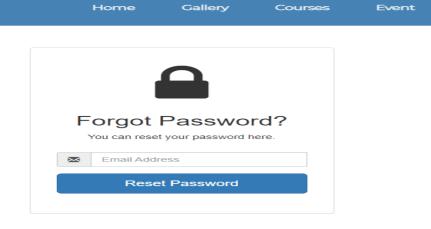


• Login form





Forgot password



• Gallery

Computer Lab



COURSE

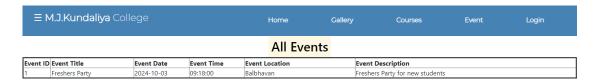
≡ M.J.Kundaliya College	Home	Users	Gallery	Courses	Event	Feedbacks	Login	
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All Courses

Course ID	Course Title	Course Description	Course Duration	Course Eligibility	Course Fees
1	BCA	BCA	4	12th pass	25000
3	BBA	Bachlor of Business Administrator	4	12th Pass	25000
5	bcom	fhfbn	4	12th Pass	25000

Activate Windows
Go to Settings to activate Windows.

• Event



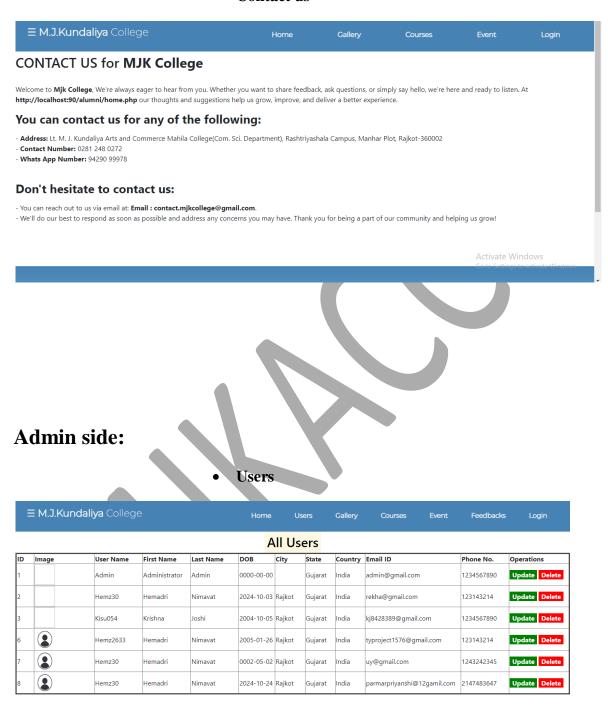


About Us



College started in June - 1990. In 1990 Founder Trustees Shri Labhubhai Trivedi and Shri Jayantibhai Kundaliya completed their dream to educate girls & uplift them in society. Trustees & Principal started Computer division with a view to educate student according to society & current scenario in education. BCA & PGDCA started in 2007. Founder trustees: Labhubhai Trivedi, and Jayantibhai Kundaliya. Our honorable trustees are: Shri Mansukhbhai Joshi and Dr. Alpnaben Trivedi, Shri Ushakantbhai Mankad.

Contact us



Activate Windows
Go to Settings to activate Window

Feedback







5.0 LIMITATION AND FUTURE ENHANCEMENT

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:

> Jobs page:

The jobs page features job opportunities posted by employers within the alumni network.

The jobs page provides a platform for alumni to explore job opportunities posted by employers within the alumni network.

> Forum page

The forum page allows alumni to engage from follow graduates.

The forum page is an interactive platform for alumni discussions and knowledge sharing.

6.0 Conclusion and Discussion

So the Alumni Information Database is mainly used to share the views between the users of the application which is very useful to upgrade the knowledge of everyone. The application is also serve as a useful site to know what is going on in our in our college and can also know about the various opportunities of the outer world. The application can be further expanded by following the future Enhancements mentioned above.

- **A.** Existing System The former methods of data preservation were tabular forms, excel sheets, documentations, etc. These system limits multiple accessing, easy modification in the data, searching for records [2]. As we are moving towards digitalization, techniques of data management have been improved. One of these methods include, database management system. The database management systemworks on the principle of data-keeping using computerized technologies.
- **B.** Disadvantages of existing system These current methods though provide global access considering cloud-based word document such as Google Docs, Microsoft Word, etc. they have to be modified manually by an individual. This results in time

consumption as well as lack of consistency in maintaining the data. The limitations of the current methods are that they are have to be updated regularly to avoid loss of data and it becomes inconvenient for every user to the same.

- C. Proposed Model Alumni Management System is a system which manages the records of the students who are a part of the respective institution or were a part of the institution. Alumni management is important as it keeps the records of the previous students for keeping them in touch with the institution. The alumnus can be a help to the college in their expertise files of study from the outside world giving students guidance and updating them about the current happenings. It particularly concentrates on the graduated students of the institution and not on the students who are currently a part of the institution.
- **D.** Benefits of Proposed Model over Existing system The database management system is a collection of a particular data depending on the requirement. It is easier to alter and implement changes in the existing data. As the new software technology is rising, we can store this data in a conventional and effective way using these software's and interfacing them in a proper functional order which can be accessed remotely.

