

Gyan.com - Knowledge Propagation and Query Resolving Webapp

Anup Maurya¹, Shubham Misal², Shubham Patil³, Hardik Bobade⁴, Amey Wakshe⁵

Assistant Professor, Department of Computer Engineering¹

Student, Department of Computer Engineering^{2,3,4,5}

Chhatrapati Shivaji Maharaj Institute of Technology, Panvel, Maharashtra, India

anup.maurya90@gmail.com¹, shubham.misal2710@gmail.com²,

shubhampatila5@gmail.com³, hardikbobade16@gmail.com⁴, ameywakshe24@gmail.com⁵

Abstract: *As there are many problem out there in the world. This problems are solved by researcher & inventors & scientists who are continuously working on the problem statements and continuously gaining information and learning new concepts or researching new concepts or patenting something new, and there are many researcher that work on a single thing like Ex:- what is there out of the space galaxy, etc. So our idea behind Gyan.com - Knowledge Propagation and Query Resolving Webapp is that here any user can come in and share their knowledge of the fields or domain they are expert in. It means that it is open of all types of user not for a niche audience, here at Gyan.com any person can share their knowledge & can also ask questions, doubts about anything, doubts solving & doubts are important because we can't predict anyone's question & his thinking ability towards anything. Like there are different scenarios for students and other people that is not each person's doubts and questions are answered always or they don't get the desired answer or output they want. One thing is important that is we don't need to solve a solved problem again Ex:- Like the invention of number '0 - zero' is already done: The origin of zero came from a well-known astronomer and mathematician of his time, Aryabhatta (Indian Scientist). The well-known scientist used zero as a placeholder number. In the 5th century, Aryabhatta introduced zero in the decimal number system and hence, introduced it in mathematics. So as the 0 number came and many problems are solved by this invention like nowadays '0' is used in computing-devices and the computing is totally depended on 0's and 1's. This is where the knowledge sharing and its importance come in. So as anyone solve a problem or invents anything new or solve a problem on the basis of previous research he/she shares their knowledge to the world. As anyone shares in the knowledge or problem solved then we don't need to again solve the solved problem. Yes what we can do is learn from this and try to solve new problems or invent something new. So our WebApp Gyan.com is all about sharing knowledge, sharing doubts & getting resolved by anyone openly, gaining knowledge. What our motto is that if we want to find something or learn something new like tech stuff, medical stuff, about engineering, or we want so information about something so as a user we usually go to google chrome and type in about that and google lists out website with references in there from there we go to different website & webapps out there and try to get our answers and solutions. So in our webapp we are trying to do is that the user gets in the info about everything. Like normally the user have to visit different website for different content. So in our webapp the user will get all types of info as it is open for all types of user. Here anyone expert in their fields like engineering, medical science, science, space, business, body building, etc can come in here and share knowledge & share content here so that it is available for all types of user. Knowledge sharing is very important (Giving is more important than taking). That is all about our webapp Gyan.com Knowledge Propagation and Query Resolving Webapp*

Keywords: Knowledge Sharing, Query-Resolving, Problem-Solving, Knowledge-Gaining, Knowledge-airing, Content-Sharing, Posting

I. INTRODUCTION

Knowledge gaining earlier was only possible through our teacher our friends & whatever references we get near by us. Most preferred way for knowledge gaining was reading books, newspapers ,etc. Now a days as the internet has emerged & evolved sharing knowledge & gaining knowledge has become so easy that with a matter of click people can get n' number of information & can share info. This is possible due to the internet that has the world's largest network of connected devices & machines & servers & client's. Basically information exchange became very easy. Previously people use to use letter for transferring messages from one place to another in long distances. But now as the technology has evolved we can send messages to anyone through one click by using – gmail.com, messages app, social media. But knowledge gained from books & mentors & teacher & friends is best than the internet. Yes as particular topic. Also these websites are divided into different fields. Some of them serves solutions of a problem, topic information, research on a particular thing etc. So, this make more time consuming, complex process as every website is made for a particular purpose & each website is made for a particular niche audience or by thinking about the specific user. Internet has solved many problems like connectivity and much more. Now a days a new things is in trend dependency it means that we humans are trying to depend on dummy machine that cannot do anything without humans. Human mind is the most powerful thing in the whole world. So here at Gyan.com what our idea is, that any user can come in gain knowledge as per his/her requirement by viewing or reading the content available on our webapp that n' number of users had posted till date. Here at Gyan.com we are not targeting at a niche audience basically it means that the webapp is open for all types of user whether he/she is expertise in any field like engineering, mathematics, science, biology, space, bodybuilding, bussiness etc. At Gyan.com any person can share their knowledge & can also ask questions, doubts about anyting, doubts solving & doubts are important because we can't predict anyone's question & his thinking ability towards anything. Like there are different scenerio for students and other people that is not each person's doubts and questions are answered always or they don't get the desired answer or output they want. As anyone shares in the knowledge or problem solved then we don't need to again solve the solved problem. Yes what we can do is learn from this and try to solve new problems or invent something new. So our WebApp Gyan.com is all about sharing knowledge, sharing doubts & getting resolved by anyone openly, gaining knowledge. What our moto is that if we want to find something or learn something new like tech stuff, medical stuff, about engineering, or we want so information about something so as a user we usually go to google chrome and type in about that and google lists out website with references in there from there we go to different website & webapps out there and try to get our answers and solutions. So in our webapp we are trying to do is that the user gets in the info about everything. Like normally the user have to visit different website for different content. So in our webapp the user will get all types of info as it is open for all types of user . Here anyone expert in their fields like engineering, medical science, science, space, bussiness, body building, etc can come in here and share knowledge & share content here so that it is availabe for all types of user . Knowledge sharing is very imporant (Giving is more important than taking). That is all about our webapp Gyan.com Knowledge Propagation and Query Resolving Webapp. Here user can see who has publish the content : author's name & also author can share images, video so that if anyone reads that particular content then it gets more clearer for the user to understand it. Gyan.com is a webapp open for all types of user. Internet is best tools for some kind of problems or requirements but for different kinds of problems it is not appropriate, it means that not every invention is perfect in the world but yes they are important. It is totally depended on data. We have many features in our webapp here at Gyan.com user can like a posts content, can view authors name, the post or contents uploaded date, we have different section in there where a normal user can only see the preview & when he/she becomes registered user then he/she can see the full content out there & can share their knowledge as well.

II. LITERATURE REVIEW (SURVEY)

Our group did extensive survey on the current offerings of different webapp & website about how on the daily basis they help us, by doing the further activies by ourself :: researching over the internet, asking to our friends, asking our teacher's , and other references.

We created a form with different question available here is the result of the form out there, we asked this question to different type of audience but till date most of them were IT students & IT employes (Software) :- Q & A type :-

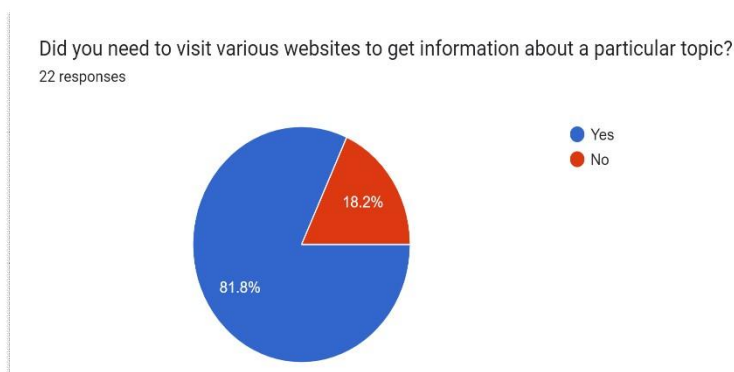
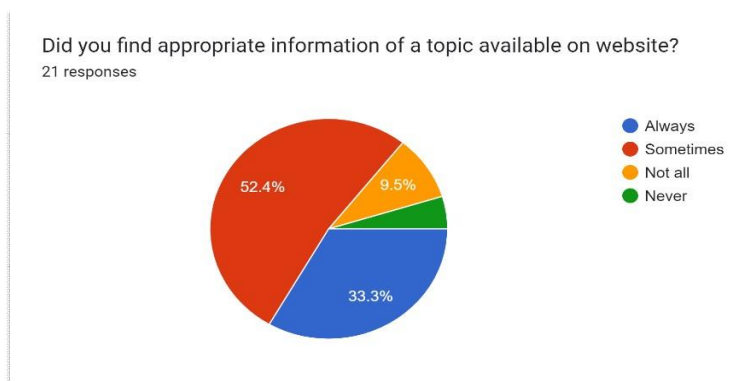
A.) How are your doubts solved?

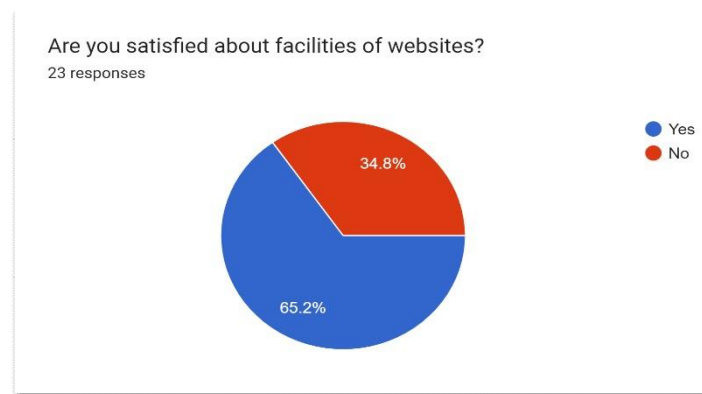
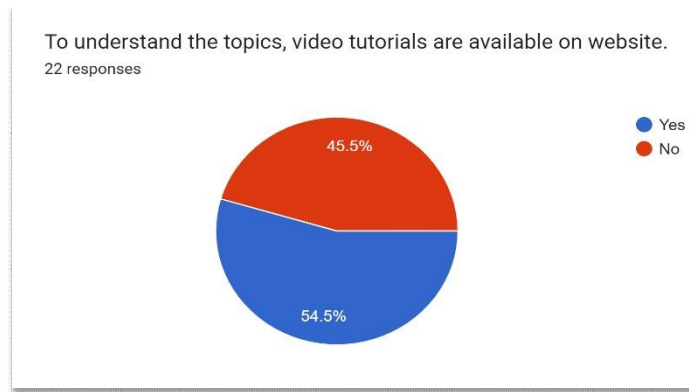
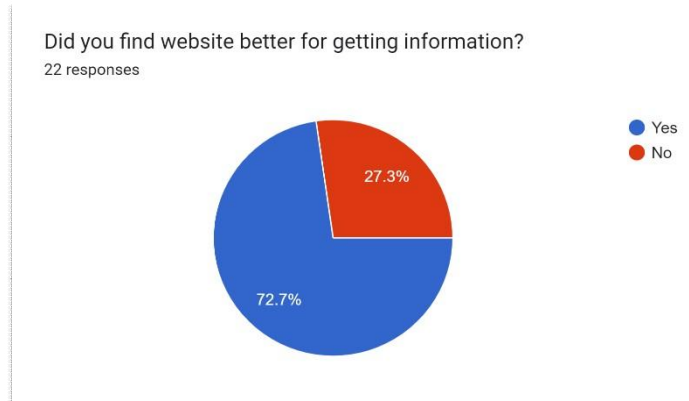
From teacher and mentors

- I use data available on various websites
- Normally YouTube or Google
- Social media resources , Search Engines
- From chatgpt, stack overflow and sometimes from YouTube also By searching for the information online, from the reference books or by either watching online videos.
- Most of the doubts are solved through internet like tutorials or by reading articles on website

How you find solution of any problem?

- by solving it by myself and taking help from other and solving by team
- I visit various websites to get solution of the problem
- By using generative ai- google bard, chatgpt, etc
- From my mistakes
- Trying it by myself if I can't then with help of someone who can solve it for me. By searching on the Internet.
- C.)





How you get knowledge for a new thing of which no data exist in the world?

- Google
- books, internet
- I will ask to elder person to get information.
- It's simple, I don't
- There is no such possibility in today's world. From social media, digital and electronic media we get to know every new updates of every happenings around us.
- We find things that relates with the problem
- Most of the new things we listen, see and research that's how we get knowledge for the data
- It takes time whenever a new thing is invented or a new problem occurs bcz the world is wide

- I will research on it through searching some related thing

How you ensure that the given information on website is correct ?

Google:- if any info is incorrect not all webapps or website have a option of report

By cross-checking the contents on other websites

Idk which website you were talking about. But I am assuming the website to be chat.openai.com. And yes the information is adequate.

8/10 means that 8 website are correct out of 10

Using generative-ai tools like google-bard, Chatgpt

People's upvotes and real time data, Building ML models that check for it. Refer to the books related to the information.

So as the most of our audience were IT student or IT employees so as we all know that IT or software is evolving on daily basis so on that things most of the answers we got was the solution to our problem is internet, mentors & teachers in problem condition because not every solution will be available on the internet & as we know the solution on the internet are uploaded by humans only. In most of the cases information-exchange is the key to many problems but for different situation it is not relevant because we can't depend on another's for every problem. Like if are currently solving a problem on which no data exists then in that case we have to use our mind, our critical thinking ability, invoke our problem solving ability.

Jones, M., and Alony (2008) have published a paper describing how information-exchange or information-sharing the new source of data analysis. They have shown how container-of-info can be used for analysis, also highlighting the advantages and disadvantages of the use of data-stored-by- multiple-users and analyzed data. They have shown how data- storage-by-multiple-user-on-a-specific-topic can be a source of valuable and reliable data analysis.[1]

Every thing about Google & other tools [2] :-There are n'number of solution out there for a particular problem. Like for example if we want to learn something new ex:: learning a new skill related to computers we will google about it or we will ask a elder's who are expert in that field.

Like for tech-related stuff if at some point we get stuck in a condition where we cannot solve the particular problem then we need to ask for help & see different resources from which we will get our answers and solution. For tech related stuff we commonly visit or use this tools and webapps :: [2] google.com, stackoverflow.com, javatpoint, generative-ai, tutorialspoint, geeksforgeeks, linkedin etc. This kind of webapps are always helpful for students & researcher's because most of the doubts are asked by them only. So there are many solution available in different ways & different formats on different webapps as per the requirement. Ex:: As we type something on google [2] like what is term etiquette then what google will do is that it will see the references for the searcher keyword over the www or internet & then it will find the top visited webapps by the user , top rated apps, and finally it will show everything related to that . and it will give multiple website link where the same content is explain in different manner. Now a days there are many words for information-exhnage like :- tutorials, articles, newsletters, blogs, social-media,

III. SYSTEM IMPLEMENTATION

Setup of the project (technology's used):-

Frontend-Tech :- HTML, CSS, JS

HTML :- HTML is a markup language used by the browser to manipulate text, images, and other content, in order to display it in the required format. HTML was created by Tim Berners-Lee in 1991. The first-ever version of HTML was HTML 1.0, but the first standard version was HTML 2.0, published in 1995. For developing the homepage to the login page.

CSS :- For designing & styling we used it. Cascading Style Sheets is a style sheet language used for describing the presentation of a document written in a markup language such as HTML or XML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.

Js:- For calling different functions like onclick(). JavaScript is a scripting language that enables you to create dynamically updating content, control multimedia, animate images, and pretty much everything else. (Okay, not everything, but it is amazing what you can achieve with a few lines of JavaScript code.)

Backend-Tech:-JAVA,MYSQL,TOMCAT9 server

Java:- Java was originally developed by James Gosling at Sun Microsystems. It was released in May 1995 as a core component of Sun Microsystems' Java platform Java is a high-level, class-based, object-oriented programming language that is designed to have as few implementation dependencies as possible. It is a general- purpose programming language intended to let programmers write once, run anywhere (WORA) it means that no need to compile again & again. Java applications are typically compiled to bytecode that can run on any Java virtual machine (JVM) regardless of the underlying computer architecture. The syntax of Java is similar to C and C++, but has fewer low-level facilities than either of them. The Java runtime provides dynamic capabilities (such as reflection and runtime code modification) that are typically not available in traditional compiled languages.

As of 2019, Java was one of the most popular programming languages in use according to GitHub,particularly for client–server web applications, with a reported 9 million developers.

MYSQL:- MySQL is a relational database management system.A relational database stores data in separate tables rather than putting all the data in one big storeroom. The database structure is organized into physical files optimized for speed.

Tomcat 9 server:- Apache Tomcat version 9.0 implements the Servlet 4.0 and JavaServer Pages 2.3 specifications from the Java Community Process, and includes many additional features that make it a useful platform for developing and deploying web applications and web services

| Sr.no | Hardware and Software Requirements | | |
|-------|--|---------------------------------|--------|
| | Name | Specification | Yes/no |
| 1 | Computer system | 8gb ram, 200gb ssd or less | |
| 2 | Windows-operating system or any other os | Windows 8 or higher | |
| 3 | JAVA DEV TOOL KIT | Jdk 1.8 or above | |
| 4 | Visual studio code | Visual Studio 2022 version 17.7 | |

What is Gyan.com - Knowledge Propagation and Query Resolving Webapp?

Existing System-problems: (Information-Exchange):- The problem in the existing system is that whenever a user wants to learn anything or gain any knowledge or share knowledge , what happens is that the user has to visit n’number of websites & webapp as per his/her requirement. Like we can say that there are n’number of website or webapp available for a single type of content or topic. For that, user has to do is visit different website & webapps so that he/she can gain or share knowledge. There is no specific webapp available that has all types of content or that allows the user to share any type of content. We can take example of different webapps :- Stackoverflow.com (Basically it is the best website for problem solving & query resolving means here the user’s world wide are there who share’s in their knowledge about a particular problem & they try to solve other people’s problem), generative-ai (like google bard, chatgpt,Microsoft-

Ai-Bing : Basically what this Ai feature does is they are already trained on a specific dataset and on the basis of that the algorithm behind this AI feature are developed by the algorithm-engineer’s & scientist in the field: if we put any question to the webapps like this then it will fetch data from n’number of websites and that content is only showed to us , it is not a new things & AI can’t do anything bec it’s just a dummy machine with the human intelligence integrated within it, it uses different api to call content of different website into the app, and about generative AI code generation or any type of generation it is based on the algorithms they are trained on yes but it solves problem in some cases , So we should not totally depend on it for all types of problem).Earlier if a person need any topic information, a solution of a problem or want some particular information about a topic then that person need to visit numbers of website. It takes a lot of time to search for a particular content which they want. There are various websites for various topics or solutions. All websites are made to serve information on a particular topic. Also these websites are divided into different fields. Some of them serves solutions of a problem, topic information, research on a particular thing etc. So, this make more time consuming complex process as every website is made for a particular purpose. The best part of the existing system

is that it is user specific means every webapp has a niche type of audience only. We know that if someone want some information about a particular topic or a problem's solution then, he need to visit numbers of websites. It takes a lot of time to get an appropriate information on a particular topic or to get a right solution of the problem. Also it depends on which field's topic or the questions are asked by the person. As every website is made for a particular purpose. Some of the are made for some specific filed like programming or related to mechanics while some are for problem solving. So this make it more complex, confusing and time consumable for the person to get appropriate information or right solution.

Limitation-of-the-Existing-System:-

It is time consuming process for searching a particular topic on different websites .

It is difficult to get proper information about a topic on websites as every websites serves some different data.

Most of the websites need to login for content view.

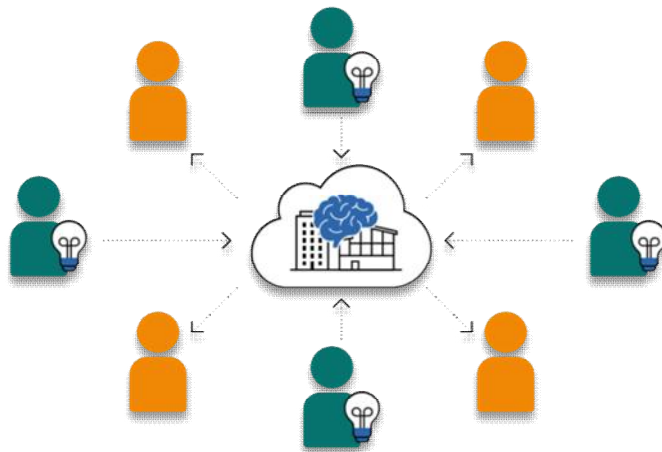
Not every doubt is solved of the user from the webapp.

User has to cross check about the info not every time but in some cases, because we can't say that each content on each webapp or website will be appropriate

Proposed System :- Objectives of Gyan.com-Knowledge Propagation & Query Resolving Webapp (Solution) :-

We are providing all topics, problem's solution of different fields through our Webapp named as "gyan.com". we serve information on various topics basically we serve means that different people world wide come at Gyan.com and share in their knowledge & queries ,of different fields and solution of the problems. So user can get their need of content or solution at one point. Also if someone want to share their knowledge on a particular topic or giving solution of others queries,

problems so, they can easily add it by login. Also the publisher can add images or videos to make more understanding of the topic or proper guidance to solve the problem



Features of Gyan.com-Knowledge Propagation & Query Resolving Webapp:

Normal user can easily search for the content and can see the content.

User can also give their response by reacting to publisher content means logged in user can like the content posted by other users.

Only logged in user can share or publish their knowledge or solution

Also publisher can add image or videos to make more understanding of the topic or solution.

As it is open for all there is no such type of restrictions for user that to upload only a specific type of content, user can share any type of content he/she want to we have almost 20 categories in our webapp Gyan.com if user finds that there is no category mathching to his/her content then he/she can choose category as general/anything.

A normal user without account/registration can only see the preview of the content available on the webapp.
 If user makes any incorrect option or else any error occurs then we are giving the server side error bec it's important for authentication while user is using the webapp.
 User can view the full content only when he/she is logged in into the webapp.
 User can view his/her profile & can make changes to profile whenever ever he/she want's to.
 User can change account details like email & password.
 As the webapp is responsive so it can be used on any devices.
 User can share his/her knowledge/query or anything he/she wants to basically by going in the option of Ping your Gyan here..... :- Here he/she has to fill the details, user can add images/videos as per his/her choice. In the webapp Gyan.com we had added many animation like loader, when user logs in then giving message of successful, sometimes giving error message on some operations.
 End user can share & gain valuable piece of information i The content can be of any type like spiritual, carrer option, pharamacy, medical,engineering, business information, data- mining, astrology, physics, science & technology

FIGURE 1:- DATA-FLOW-ARCHITECTURE

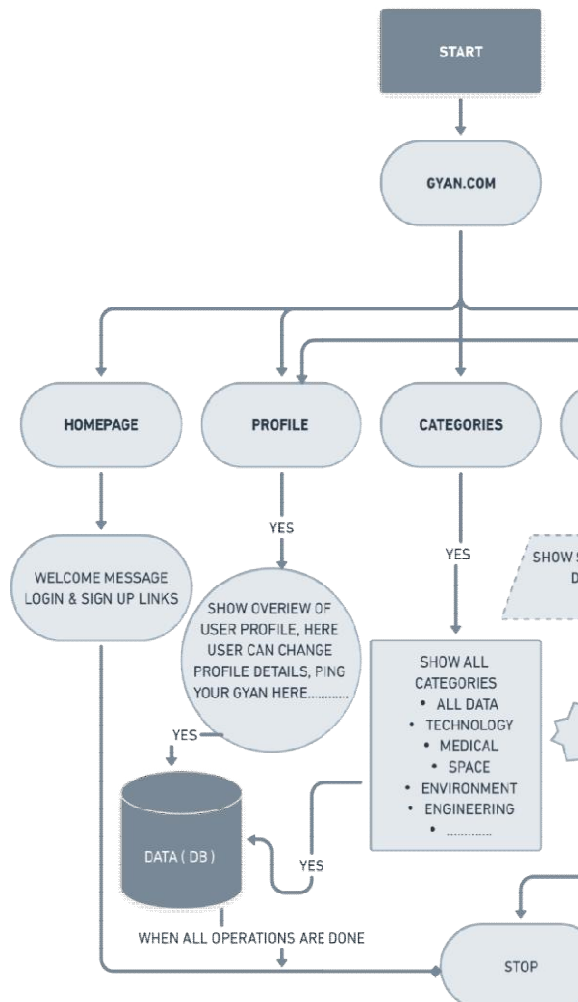


FIGURE 2:- USE-CASE DIAGRAM OF GYAN.COM WEBAPP

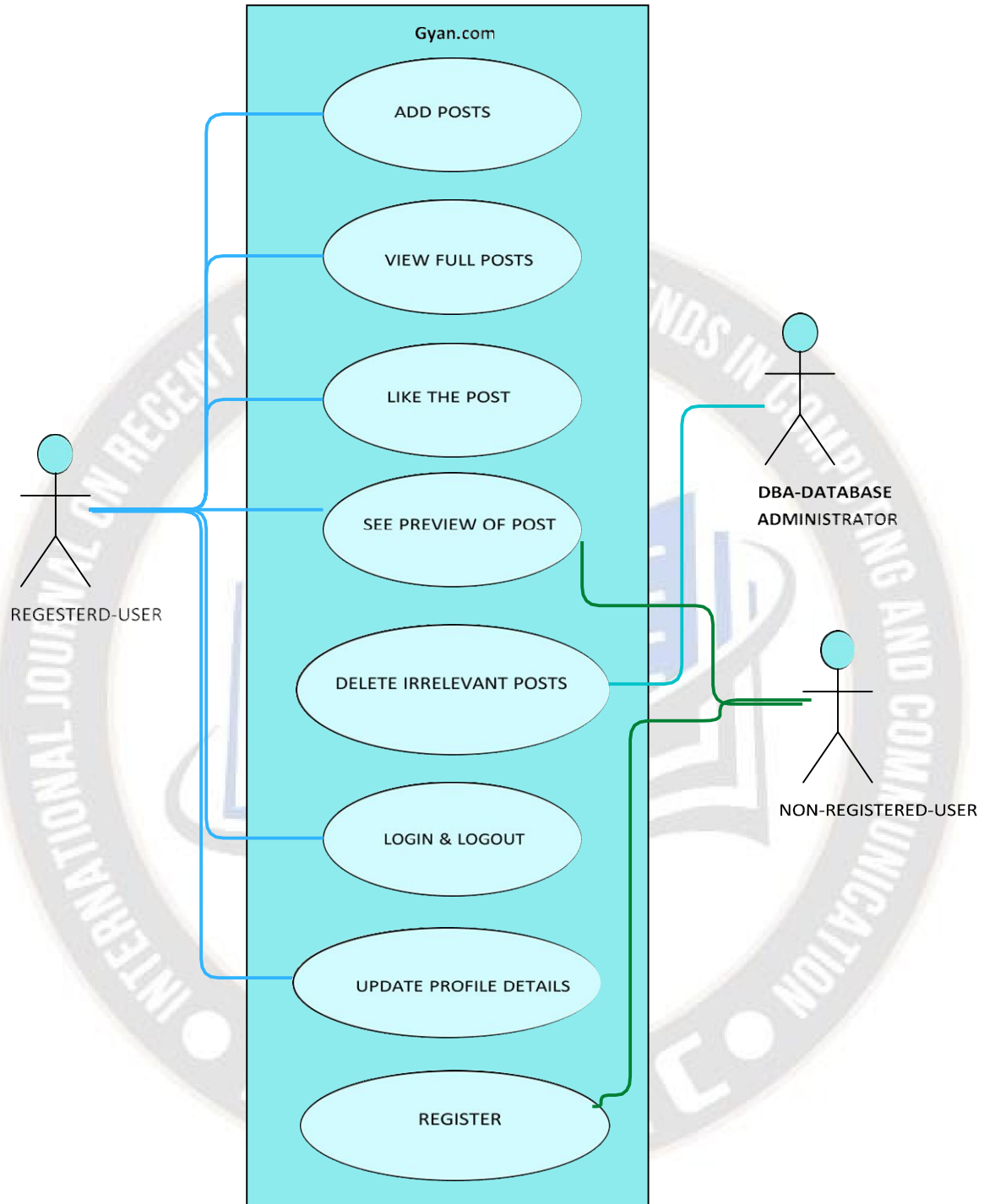
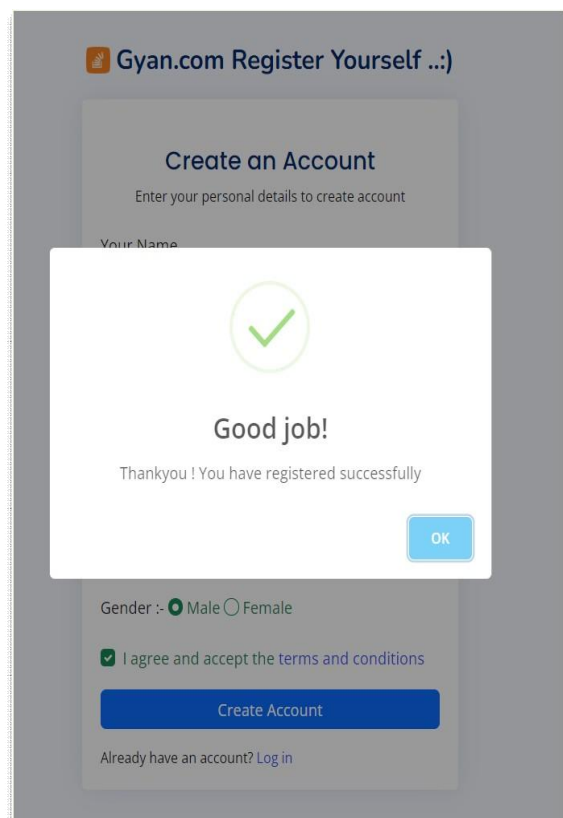
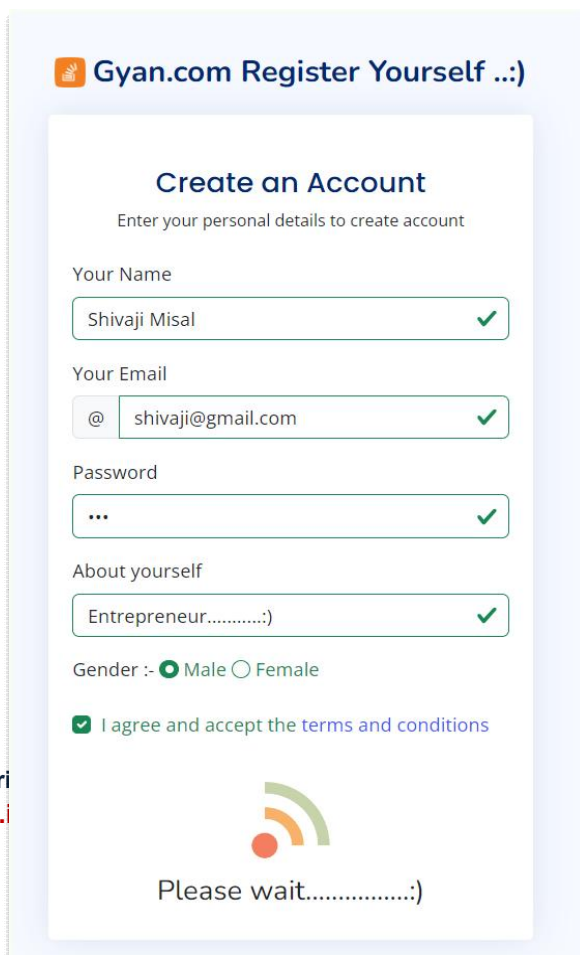
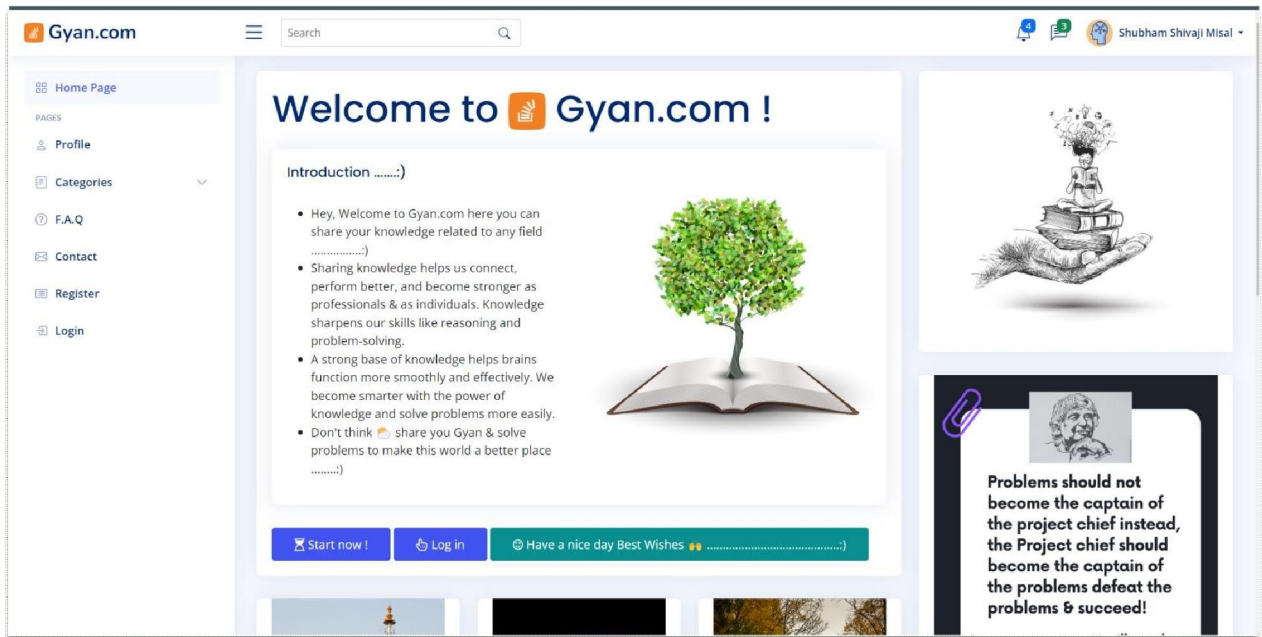
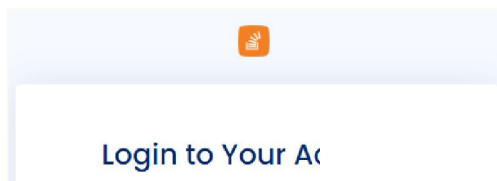


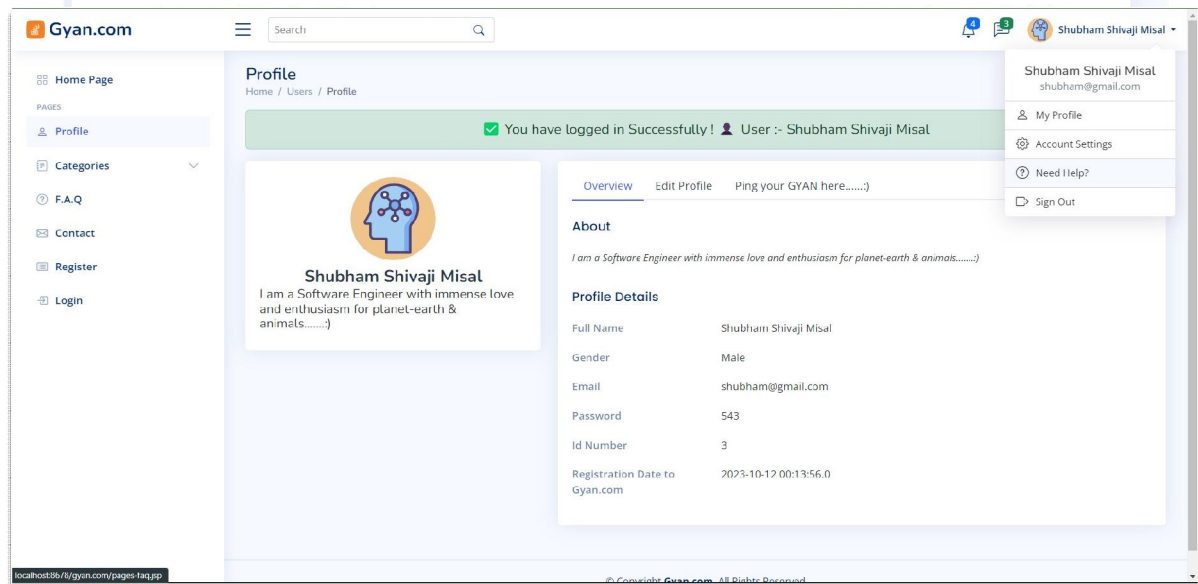
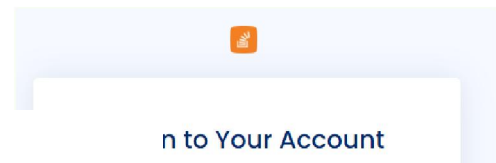
FIGURE 3 :- GYAN.COM WEBAPP HOME-PAGE



IF USER ENTERS INVALID LOGIN DETAILS

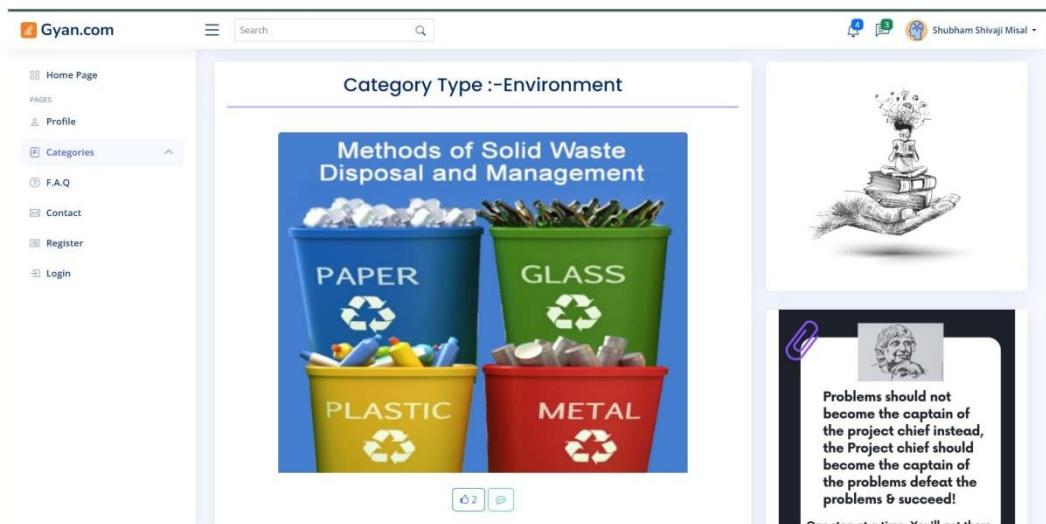
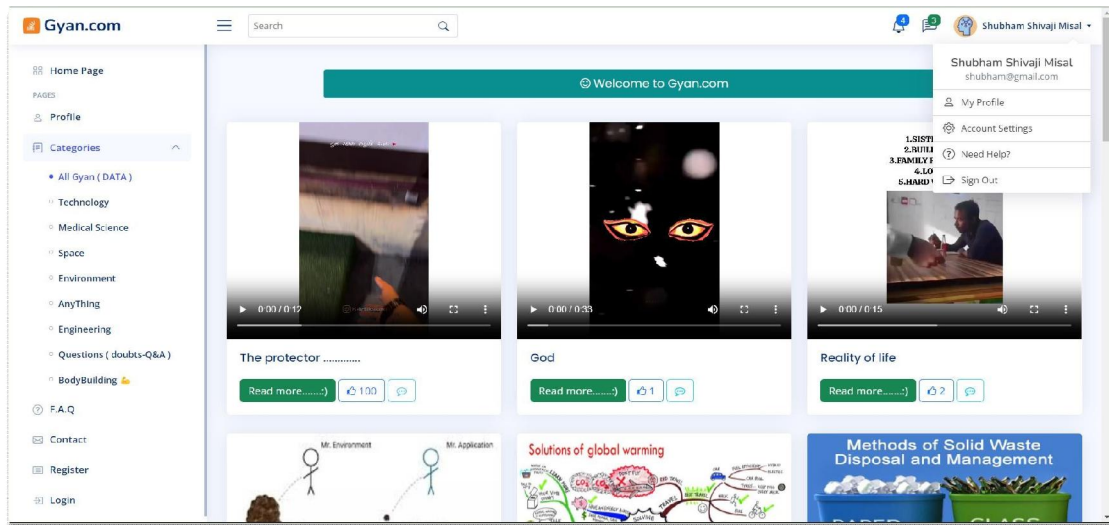


SUCCESSFUL LOGOUT



SUC

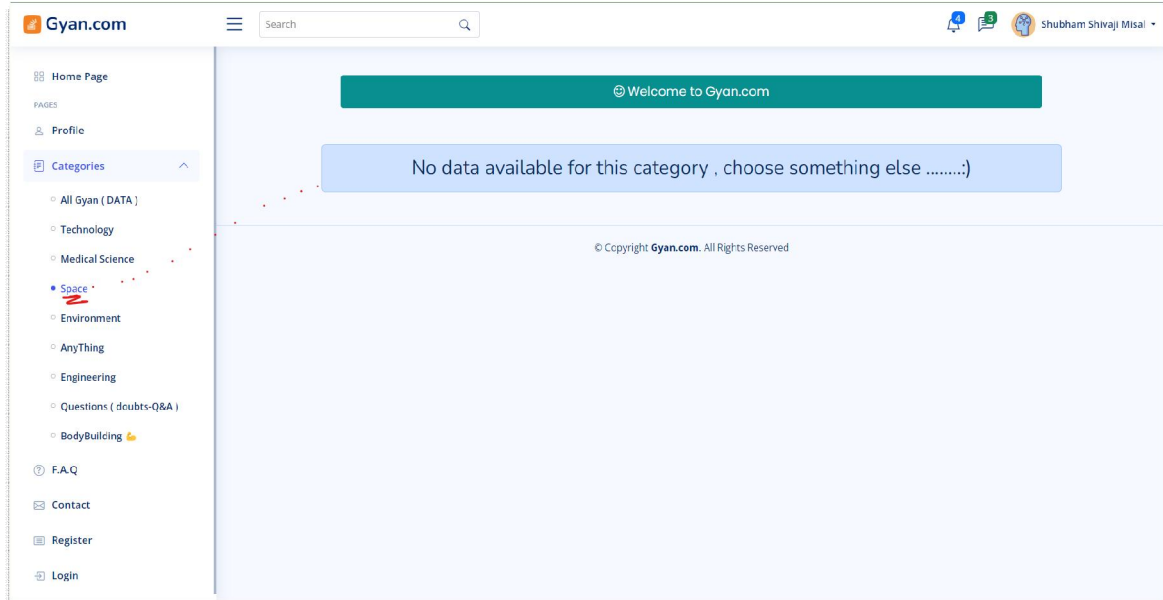
SUCCESSFUL LOGIN



EXAMPLE OF ONE POST

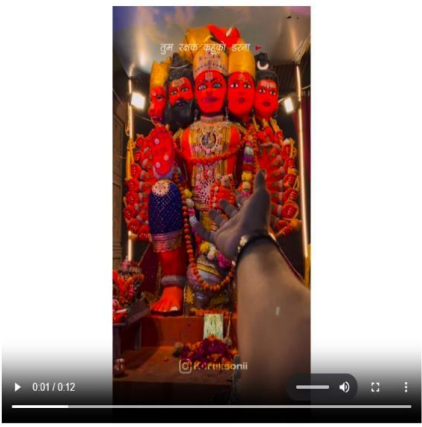
WHEN NO DATA OR POST AVAILABLE FOR A PARTICULAR CATEGORY

| | |
|---|--|
| <p>Title :- How we can solve our own created waste management problem</p> <p>Content:- Solid waste disposal management is usually referred to the process of collecting and treating solid wastes. It provides solutions for recycling items that do not belong to garbage or trash. Solid waste management can be described as how solid waste can be changed and used as a valuable resource. Improper disposal of municipal solid waste can create unsanitary conditions, and these conditions in turn lead to pollution of the environment. Diseases can be spread by rodents and insects. The tasks of solid waste disposal management are complex technical challenges. They can also pose a wide variety of economic, administrative and social problems that must be changed and solved.</p> <p>Code :- Methods of Solid Waste Disposal and Management:</p> <p>Here are the methods of solid waste disposal and management:</p> <ol style="list-style-type: none"> 1) Solid Waste Open Burning 2) Sea dumping process 3) Solid wastes sanitary landfills 4) Incineration method 5) Composting process 6) Disposal by Ploughing into the fields 7) Disposal by hog feeding 8) Salvaging procedure | <p>Two methods have been used in this process:</p> <ol style="list-style-type: none"> a) Open Window Composting b) Mechanical Composting <p>6. Disposal by Ploughing into the fields Disposal by ploughing into the fields are not commonly used. These disposa:</p> <p>7. Disposal by hog feeding Disposal by hog feeding is not general procedure in India. Garbage disposa:</p> <p>8. Salvaging procedure Materials such as metal, paper, glass, rags, certain types of plastic and :</p> <p>9. Fermentation/biological digestion Biodegradable wastes are converted to compost and recycling can be done wh</p> <p>Conclusion: Following these procedures/process can help to manage solid waste disposal.</p> <p>Date Posted :- 2023-10-19 05:53:35.0</p> <p>Author Name :- Ayush Kamble</p> |
|---|--|



USER CAN UPLOAD VIDEOS

Category Type :-BodyBuilding 🍌



0:01 / 0:12

👍 100

PING YOUR GYAN HERE.....

Overview Edit Profile Ping your GYAN here.....

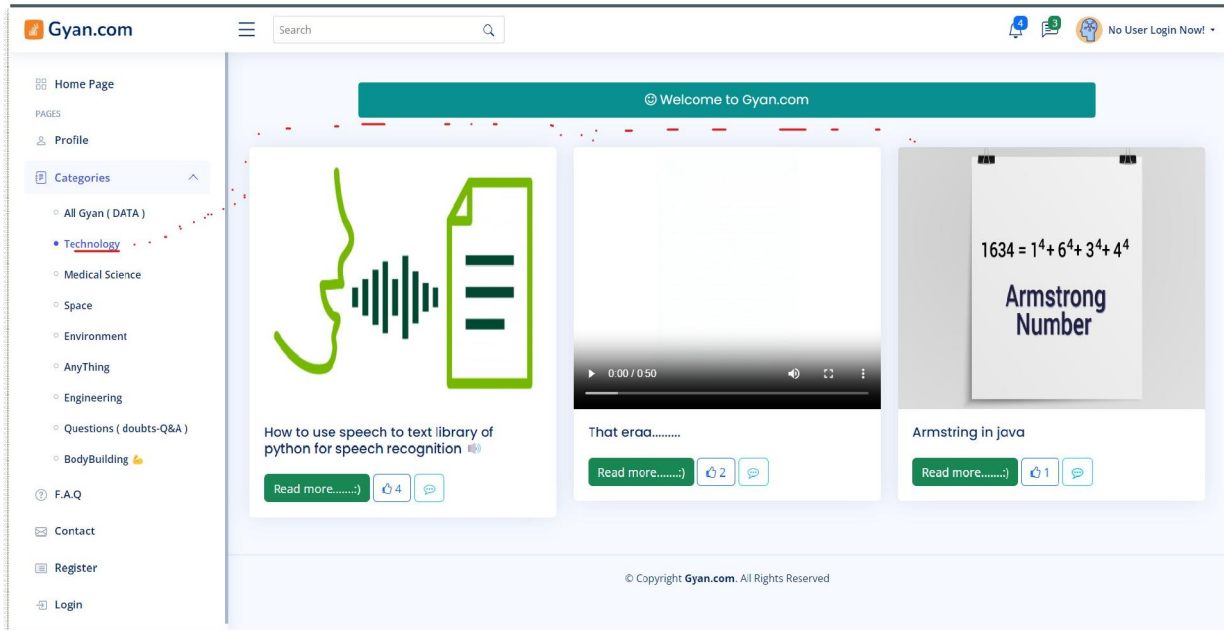
Category

Title

Content

Code

Image



IV. CONCLUSION

When it comes to learning new things in the different fields we have to search for different contents. So if any person has well research on a particular things so he can share his/her knowledge and then other people can gain it & here's where the cycle of learning goes on & on We successfully completed the project. We tried our best to solve the query resolving problem of the students & people that are not always fullfill by the world. Hopefully our webapp Gyan.com may help out to all people.....:) It was greatfull for us to work on such kind of problems we learned many things from this research & project. We are very glad to get this opportunity.

Future-Scope of Gyan.com

Copyright to IJARSCT
www.ijarsct.co.in



In the future we will be adding the further features in the webapp Gyan.com

- 1) Admin login (Delete irrelevant posts & other features, get all till date users details).
- 2) Forgot-password (with otp authentication) .
- 3) Commenting on a post.
- 4) Edit post details.
- 5) Report a post or content if it is irrelevant.
- 6) Design a algorithm for showing post to a particular user as per his/her viewed previous post, likes, viewing time , yes but it will not be like social media algorithms that makes the user's hooked in the webapps or apps.
- 7) User profile info – basically here any other user can see the author's profile who has posted the posts
- 8) Deploy the webapp Gyan.com online.
- 9) Making the liking feature more strong.
- 10) Add a Real-time chatbot option in the webapp- where in the query will be store in DB & the admin can answer the query anytime. When the next time the user enters the query then he/she will get the answer.

Last but not the least:- “Learning gives creativity, Creativity leads to thinking, Thinking leads to knowledge, Knowledge makes you great.”

— Dr. APJ Abdul Kalam

Keep Spreading knowledge Greetings & regards → Gyan.com

REFERENCES

- [1] M. Jones and I. Alony, “Blogs - The New Source of Data Analysis,” Proc. 2008 InSITE Conf., 2008.J. Clerk Maxwell, A Treatise on Electricity and Magnetism, 3rd ed., vol. 2. Oxford: Clarendon, 1892, pp.68–73.
- [2] <https://developers.google.com/search/docs/fundamentals/how-search-works#:~:text=Indexing%3A%20Google%20analyzes%20the%20text,relevant%20to%20the%20user's%20query.>
- [3] <https://online.visual-paradigm.com/diagrams/features/use-case-diagram-software/>
- [4] <https://www.ijritcc.org/index.php/ijritcc>
- [5] https://www.researchgate.net/publication/342533970_A_Review_of_Top_Blogging_Platforms
- [6] https://en.wikipedia.org/wiki/Wikipedia:Who_writes_Wikipedia%3F#:~:text=Yes%2C%20anyone%20can%20be%20bold,to%20have%20any%20formal%20training