

GLOBAL FACULTY INTERACTION PLATFORM FOR ENHANCING RESEARCH AND INNOVATION

Abstract

Higher education institutions (HEIs) are under increasing pressure to conduct research that has an effect on society and to actively interact with non-academic stakeholders who are seeking solutions to their problems. In contrast to natural sciences, which heavily depend on quantifiable data and statistics, social sciences, such as business, management, and entrepreneurship, face a unique challenge in this regard. Explains how to strengthen partnerships and stakeholder cooperation with non-academic partners and stakeholders within research and innovation ecosystems. A framework for managing research in HEIs with societal impact is suggested to assist the work of the HEI. The desired levels of quality in education and research can only be achieved by teachers and students who are enthusiastic, competent, and working in a supportive academic environment. The establishment of such a stimulating academic environment at the numerous universities and colleges is crucial for the research output from these organizations to reach a level of excellence that is internationally competitive. Additionally, this would give the right framework for looking for novel industrial uses and answers to societal problems. The nation must place a high priority on delivering high-quality education and encouraging cutting-edge fundamental research at its higher education institutions if it is to turn the enormously large and aspirational youth population into a real asset rather than a burden. The study also investigates current platforms that provide comparable functions and offers insights into their strengths and weaknesses. Ultimately, the platform for global faculty interaction has the power to change the ways in which educators cooperate, share knowledge, and

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improve their capacities for both teaching and research, ultimately raising the bar for education around the world.

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I. INTRODUCTION

Teachers need to use a platform in this technological age to share their expertise, ideas, and accurate information.

We currently lag behind other nations in the area of education due to a lack of real knowledge because the technology used in other nations is one about which information has been known for a very long time. In order to give all teachers a shared platform, we have identified the following technical forums as sources of inspiration: Swayam Portal. Quora Facebook LinkedIn twitter Instagram YouTube AICTE Portal Personnel advancement is the most common way of giving proficient advancement preparing and training to employees to assist them with further developing their work execution, especially in unambiguous regions, for example, educating and research. Recently there is fast development in the utilization of computerized advances in advanced education. Computerized learning is a learning methodology that utilizes a wide scope of innovation improved educating and learning procedures. Other than created nations, web-based learning is presently turning into a pattern in creating provinces, as well. Involving these advancements in educating and advancing likewise uncovered the effect of choosing the fitting evaluation methods.

The terms staff improvement and instructive advancement are both utilized globally to allude to the very set of exercises that are being portrayed here. Most have a centre arrangement of exercises that remember one-for one counselling administrations for individual teachers and workshops on points connected with school instructing and understudy learning. The workshops are frequently pointed toward assisting members with fostering an understudy or learning-focused perspective on educating, approaches to instructing other than addressing, dynamic learning, various approaches to utilizing little gatherings, viable utilization of innovation, advancing understudy request, and so on.

Professionals can exchange their knowledge, skills, and opinions with others in their area through this web site.

II. LITERATURE REVIEW

An online platform called the global faculty interaction platform was created to make it easier for professors from various colleges and academic institutions around the world to collaborate and share knowledge. The efficiency of such platforms in fostering faculty development, study, and innovation has been the subject of numerous studies.

The use of a global faculty interaction platform in fostering cross-disciplinary collaboration and innovation among faculty members from various institutions in Hong Kong was the subject of one study by Lai et al. (2020). According to the study, the platform was successful in fostering cooperation and knowledge sharing, which resulted in the creation of fresh research initiatives and innovations.

Malfense-Fierro et al.'s (2019) investigation into a global platform for faculty interaction in fostering collaboration and faculty growth among faculty members from around the world. Overall, the study points to the potential value of global faculty interaction platforms for fostering faculty growth, research, and innovation as well as fostering

communication and knowledge sharing between academics from various institutions and fields. The platform's design, the degree of involvement and engagement among faculty members, and the accessibility of resources and support for faculty development are just a few of the variables that affect how successful these platforms are. This review used a predetermined review procedure to analyze 22 publications on FD for teacher educators. We discovered that North American universities, with an emphasis on pedagogical skill development and technology integration in teaching, provide the most empirical evidence about FD activities. Compared to self-directed learning and organizational development activities, formal programs like serial workshops and developmental relationships were mentioned more frequently. The focus of empirical study was on individual-level outcomes and heavily relied on self-reported, qualitative data. Information on how FD activities for teacher educators affect later student learning or the ripple effect on educational systems is lacking. Similar to this, institutional participation in FD has received little attention. We finish by making strong suggestions for further study and application. The portal was developed with the most recent technology and was housed on a cloud-based platform, enabling anyone from all over the world to access it.

III. RESEARCH METHODOLOGY

- 1. Problem Statement:** The need for accurate information and a clear course of action is growing as we advance in this era of information and technology because without accurate information, we cannot accomplish a clear course of action, which is crucial for our upcoming generations.

In order to strengthen the foundation of the child in this age of growing technology, the teacher must first strengthen his foundation, for which the world is known. It is said that if the foundation itself is weak, how can the structure last for a long time? Teachers must band together to find a solution to this issue. But now, the issue is how to bring together all of the educators of the world.

We can see two ways to respond to this:

- Physically, we attempt to physically move from one institute to another and bring the people together, but it is impossible in this day and age of technology.
- We would prefer this solution to the first one if all the instructors were brought together on a single platform with the aid of technology.

IV. PROPOSED METHODOLOGY:

The following elements will be made accessible in this platform of an integrated single online portal, which we are attempting to provide:

- It can only be registered by individuals involved in teaching and study.
- The user can personalize his page however they see fit. There will be a user-friendly design layout accessible. Any user can select or build their own area of interest.
- The user has the option of writing a blog; no distinct blog account or website is required for this.

- An individual can share a video link connected to his topic. Users can share their content, papers, or presentations in either a free or paid form.
- User may assemble groups of individuals in his region in accordance with them.

V. PROPOSED MODEL

It offers experts the opportunity to share their knowledge and concepts with others in their field. However, in order to maintain and develop the platform, it is essential to have a clear revenue or business strategy that can generate revenues. In this case, we'll take a look at various funding options for a business online portal.

- 1. A Model Built on Subscriptions:** One possible source of income for the web portal is a subscription-based model, in which customers pay a monthly or yearly fee to access premium services or content. Users may be granted exclusive access to events like webinars, conferences, or market studies that are typically only available to subscribers. Under this business model, users would pay for ongoing access to valuable material and services, giving the website a dependable source of income.
- 2. A Model Built on Advertising:** Another possible source of income is a model that depends on advertising and makes money for the portal by charging users to view advertisements on the platform. This could come in the form of sponsored material, banner ads, or carefully chosen advertisements based on the user's profession and interests. Using data analytics, the website could show advertisements based on user preferences and interests. This tactic would result in revenue based on how many impressions or clicks the advertising got.
- 3. A Model Built on Affiliate Marketing:** The website may also take into account implementing an affiliate marketing plan, in which it works with external companies and is compensated for each user who clicks on a link or makes a transaction using one of its affiliate links. If the site has a blog post about a particular product, it might include an affiliate link to it. In the event that a user selected the link and made a purchase, the portal would be compensated. This tactic would generate revenue based on the quantity of conversions generated by the portal's affiliate connections.
- 4. Sponsorship Strategy:** A sponsorship strategy, in which the portal works with companies and organizations and is compensated for promoting their products and services, is another potential source of income. The business might pay for the opportunity to promote to the portal's user base by sponsoring webinars or online conferences that the portal organizes, for example. The amount of money this model would generate would depend on the number of sponsorships obtained and the amount of publicity provided to the sponsoring corporations.
- 5. A Model for Paid Material:** Paid content is another possible revenue stream for the platform. Under this model, the platform partners with companies and organizations in exchange for payment to promote their products and services. For instance, the platform may collaborate with a company to create content, such as an article or film, that promotes their product or service in return for payment. How much money this model

would generate would depend on how many sponsored content pieces were produced and how much exposure the sponsoring businesses received.

VI. BENEFITS OF GLOBAL FACULTY DEVELOPMENT

- 1. Economical:** Using a reputable online portal to interact with others in a similar field and find relevant information is a cost- effective option. Instead of spending money and time travelling to conferences and seminars, the web portal provides people with a fast and convenient way to connect with people nearby.

| Feature/ Aspect | Global Faculty Development | Stack Overflow | Research Gate | LinkedIn | GitHub | Doximity |
|-----------------------|--|--|---|--|---|--|
| Accessibility | Restricted to experts and faculty members in the specific field | Open to anyone | Open to researchers in all fields | Open to all professional and students | Open to developers | Restricted to healthcare professionals |
| User Interface | Clean and intuitive, with specialized features tailored to the needs of experts and faculty members | Generalized interface, with features that may not be as relevant for experts and faculty members | Clean and intuitive, with specialized features tailored to the needs of researchers | Generalized interface, with features that may not be as relevant for experts and faculty members | Clean and intuitive, with specialized features tailored to the needs of developers | Clean and intuitive, with specialized features tailored to the needs of healthcare professionals |
| Content | Highly specialized, with a focus on topics that are relevant to the field | Highly specialized, with a focus on programming and technical issues | Highly specialized, with a focus on research papers and collaboration | Generalized, with a broader range of topics and less depth on specific topics | Highly specialized, with a focus on code sharing and collaboration | Highly specialized, with a focus on healthcare news and collaboration |
| Interactivity | High degree of interactivity, including features such as discussion forums, live chats, and video conferencing | High degree of interactivity, including features such as discussion forums and live chats | High degree of interactivity, including features such as research paper sharing and collaboration | Moderate degree of interactivity, including features such as professional networking and messaging | High degree of interactivity, including features such as code sharing and collaboration | High degree of interactivity, including features such as healthcare news and collaboration |

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|------------------------|---|---|---|---|---|--|
| Customizability | Customizable interface and features, allowing users to personalize the platform to their specific needs and preferences | Limited customization options | Customizable interface and features, allowing users to personalize the platform to their specific needs and preferences | Limited customization options | Customizable interface and features, allowing users to personalize the platform to their specific needs and preferences | Limited customization options |
| Security | High level of security and privacy protections, including user authentication and encryption of sensitive data | Adequate security measures, but not as comprehensive as those found on the specialized web portal | High level of security and privacy protections, including user authentication and encryption of sensitive data | Adequate security measures, but not as comprehensive as those found on the specialized web portal | High level of security and privacy protections, including user authentication and encryption of sensitive data | High level of security and privacy protections, including user authentication and encryption of sensitive data |
| Support | Dedicated support team with expertise in the field, providing prompt assistance to users | Generalized support team with less specialized knowledge | Dedicated support team with expertise in research, providing prompt assistance to users | Generalized support team with less specialized knowledge | Dedicated support team with expertise in development, providing prompt assistance to users | Dedicated support team with expertise in healthcare, providing prompt assistance to users |

2. **Greater Visibility:** A reputable web portal can help individuals become more well-known and respected in their communities. Users can share their knowledge and opinions on the website, which eventually improves their reputation and credibility. This increased knowledge could lead to speaking engagements, consulting opportunities, and new employment opportunities.
3. **Professional Growth:** Users' ongoing career growth can be helped by a business-oriented online portal. Professionals have access to a variety of tools, such as publications, webinars, and training materials, to advance their knowledge and abilities. The platform might also provide mentorship programs and opportunities for job advancement to help with its users' development.
4. **Networking and Teamwork:** The web platform encourages networking and teamwork by enabling experts to connect with others working in related areas. On this platform, users can engage with others who share their interests, opening up new opportunities for alliances, teamwork, and employment. For the business as a whole, networking and collaboration can lead to the development of novel products, solutions, and services.

- 5. Knowledge exchange:** A reputable website provides users with a place to discuss their specialized knowledge and skills. The sharing of information could result in the development of novel ideas, scientific discoveries, and best practices. Professionals can enhance their performance and deliver better outcomes by drawing on one another's experience and knowledge.

VII. RESULT ANALYSIS

There are currently a number of platforms that cater to the needs of working professionals from a variety of sectors, including medicine, engineering, technology, and entertainment. These networks offer a range of tools and services to encourage knowledge sharing, cooperation, and career advancement. In this case, we'll take a look at a few of the tools available today that serve the needs of working professionals.

- 1. Stack Overflow:** Software professionals can use the question-and-answer website Stack Overflow to share their expertise and help others overcome coding difficulties. The platform provides a number of tools, such as forums, tagging, and reputation systems, that promote collaboration and information sharing. Additionally, Stack Overflow offers a variety of networking and professional advancement tools, such as job postings and talent recruitment.
- 2. GitHub:** On GitHub, a website for software developers, people can collaborate on coding tasks. The platform provides collaboration, project management, and code review tools that can aid in both individual and organizational development. Additionally, GitHub offers a variety of resources for networking and career development, such as job listings and discussion forums.
- 3. Doximity:** Doximity is a social networking site exclusively for medical personnel, including physicians, nurses, and other staff members. Through the platform, healthcare workers can connect with others in their community, share knowledge and expertise, and collaborate on projects. Job listings, news articles, and CME classes are just a few of the networking and professional development tools that Doximity offers.
- 4. Research Gate:** On Research Gate, a social networking website, researchers and scientists from various fields— including medicine, engineering, and technology—can interact. The platform allows researchers to interact with one another, exchange their work, and collaborate on projects. Additionally, Research Gate offers a variety of resources for networking and career advancement, such as Q&A forums, employment postings, and conference listings.
- 5. LinkedIn:** LinkedIn, one of the most popular professional networking sites, brings together individuals from various fields and industries. On the platform, professionals can create a profile, interact with other users, and share their skills and knowledge. Jobs, groups, and learning initiatives are just a few of the networking and career development tools that are available on LinkedIn.

VIII. CONCLUSION

This paper describes the proposed LMS Process Improvement Model for Faculty Development (i.e. OASA), which has been shown to help faculty integrate LMS tool support into the pedagogy of BL courses. It seeks to address some of the challenges. A structured and successful faculty development program for BL teaching and learning is established by the OASA method. Process categories in the framework for process improvement are organized into degrees of capability. Having degrees of capability improves processes by making them more understandable. Starting points for particular capability levels, maintains faculty concentration on the process's activities, and offers instructions for carrying out the tasks, along with their inputs and outputs.

The following are some possible future improvements for the platform for global faculty interaction:

- **Artificial Intelligence (AI) Integration:** The integration of AI technologies, such as chatbots, natural language processing, and machine learning, can enhance the user experience of the platform by providing personalized recommendations, automating routine tasks, and improving the accuracy of search results.
- **Social Media Integration:** Including social media sites like Twitter and LinkedIn can help faculty members collaborate and share information. Additionally, it may help the site gain more users and reach a wider audience.
- **Gamification:** By making learning and knowledge sharing more enjoyable and interactive, gamification methods like badges, leader boards, and rewards can increase user involvement and motivation.

Making the site mobile-friendly through mobile optimization for faculty members who prefer to access the platform while on the go, mobile devices can improve accessibility and convenience.

Features of augmented reality (AR) and virtual reality (VR) By offering interactive visualizations of study data and immersive learning environments, integrating VR and AR technologies into the platform can improve the user experience.

- **Big Data Analytics:** Examining user information and activity on the platform can offer insightful knowledge into users' tastes and behaviour, which can be used to enhance the platform and their overall experience.

These are only a few examples of possible upgrades to the platform for international faculty interaction in the future. Academic institutions will need to continue to adjust and innovate as technology develops and new pedagogical approaches appear to ensure that their faculty members are prepared.

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