PROJECT FILE

On

PRESENT SCENARIO OF ACADEMIC LABS

Submitted in the partial fulfillment of the requirements for

1st-semester curriculum of the degree of

BACHELOR OF TECHNOLOGY

in

COMPUTER SCIENCE AND ENGINEERING DEPARTMENT

Of

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GHARUAN, MOHALI, PUNJAB

SUBMITTED TO

SUBMITTED BY

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Yash Mahajan (9219)

1st semester

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My thanks and appreciations also go to my colleague in developing the project and people who have willingly helped me out with their abilities.

Deepak Shandilya Yash Mahajan Suvigya Yadav

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- 2. Background

Discuss briefly related work (literature).

- 3. Proposed Work
 - 3.1Dataset

Discuss the characteristics of the dataset that you have used to validate your proposed model.

3.2Proposed System

Discuss your proposed system with the help of pseudo-code and flow diagrams.

- 4. Results and Discussion
 - 4.1Performance evaluation metrics

Discuss the formulas of performance evaluation metrics that you have used to evaluate your model,

- 4.2Discuss the results of your model with the help of tables, bar charts, or other graphical representations.
- 5. Conclusion and future work
- 6. References
- 7. Appendix

It contains the project source code

1. Introduction

1.1 Motivation of the study

We further inspected the root cause for the poor LAB situations in India. Among various reasons, we found that the utmost reason is, Absence of a dedicated platform that provides lab equipment, not only in the urban area but also in rural areas.

India is a developing economy. The absence of a marketplace provides a chance to retailers to sell the product at high prices. The absence of a marketplace also limits the possibilities for retailers. They end up selling products in a particular region only. The majority of the schools can't afford labs at retailers' prices.

1.2 Problem Statement

75% of schools in India lack fully equipped science laboratories. In the survey of UDISE & NUEPA, out of 2.4 lakh schools, 58% of schools don't have requisite labs. The biggest drawback of the Indian education system is the lack of practical knowledge. This is the major cause that curbs interest in Research and developments for future innovations. Less than 0.5% of the total students of India enroll in R&D, this is where insight and inspiration are translated into creative and impactful solutions. India stands at 46th rank out of 132 economies in the Global Innovation Index (GII) 2021. Out of 138 crores Indians, 65.1% live in rural areas, where only 28% of schools have computer labs and 9% have an Internet connection. Only 0.7% of India's GDP is spent on R&D, which is very little compared to other countries.

1.3 Objectives

For a better education system, we are introducing a dedicated Web platform that will facilitate schools, colleges, and organizations to have labs at cheaper prices, and it will also allow retailers and lab equipment sellers to sell their products on a large scale on our ecommerce website. This web platform will connect retailers and sellers to consumers. Also, it will provide a marketplace for lab equipment.

1.4 Contributions

This project is a combined effort of Deepak, Yash, Suvigya. We have enlightened the omitted factor of the education system that is practical knowledge. This idea has the power to bring a revolutionary change to our country.

2. Background work

Research has shown that students who engage in well-designed laboratory experiences develop problem-solving and critical-thinking skills, as well as gain exposure to reactions, materials, and equipment in a lab setting. Sustained investments in hands-on experiences help inspire students to further their education and prepare them for high-technology careers by fostering skills sought by potential employers.

For a better education system, we are introducing a dedicated Web platform that will facilitate schools, colleges, and organizations to have labs at cheaper prices, and it will also allow retailers and lab equipment sellers to sell their products on a large scale on our e-commerce website. This web platform will connect retailers and sellers to consumers. Also, it will provide a marketplace for lab equipment

Django will be considered for the framework. Django is a high-level Python web framework that encourages rapid development and clean, pragmatic design. The reason behind considering Django is- 1) ridiculously fast 2) reassuringly secure 3) exceedingly scalable

This platform will increase the availability of equipment and it will connect organizations, schools, colleges to sellers. These opportunities will guide students to be more skillful and innovative. It will shift the education system from mugging up the information to practical experiences. If executed correctly It will lead to a drastic change in our research and development field. The boom in practical knowledge will lead to innovation and eventually, India's Global Innovation Index will improve.

3. Proposed work

3.1 Dataset

STATE	Fully equipped Labs (schools)
Karnataka	6%
Andhra Pradesh	13%
Assam	4%
West Bengal	6%
Punjab	9%

A laboratory is always considered as a relevant and essential part so far as the teaching of Science and Computer is concerned. A laboratory is not a contest whose object is to get the "right answer", but the purpose is to learn how to gain knowledge, how to observe, and to learn the meaning of what happens. Laboratories are a significant part of accelerating scientific advances and innovations. Laboratories are the equipped places for the experiment and research. It is a great place for the students to enhance their learning by understanding and applying the learned concepts of sciences.

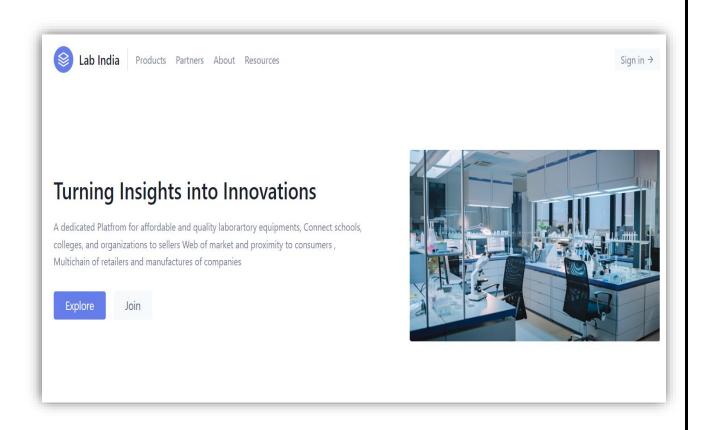
Well-designed laboratories not only make science experiments fun but also help students in achieving good academic results. Science experiments are vital for students as They are useful in understanding the theories and concepts of science that cannot be studied alone only by science textbooks. Every school should have physics chemistry biology and computer science laboratories to achieve the holistic development of students. Hands-on laboratory science

experiences are critical to the learning process across all areas of study, beginning with kindergarten and continuing through post-secondary education.

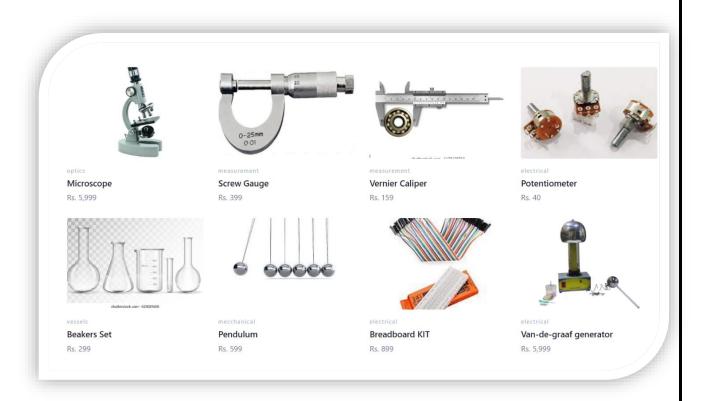
More than 15 Lakhs schools have become the hub of 25 crore students to attain knowledge, not only theoretical but practical. Applied subjective knowledge has magnified the overall development of the human brain. It provides better understanding, grasping, and longer retention of the concepts.

3.2 Proposed system

> A glance at the Homepage of labindia.com

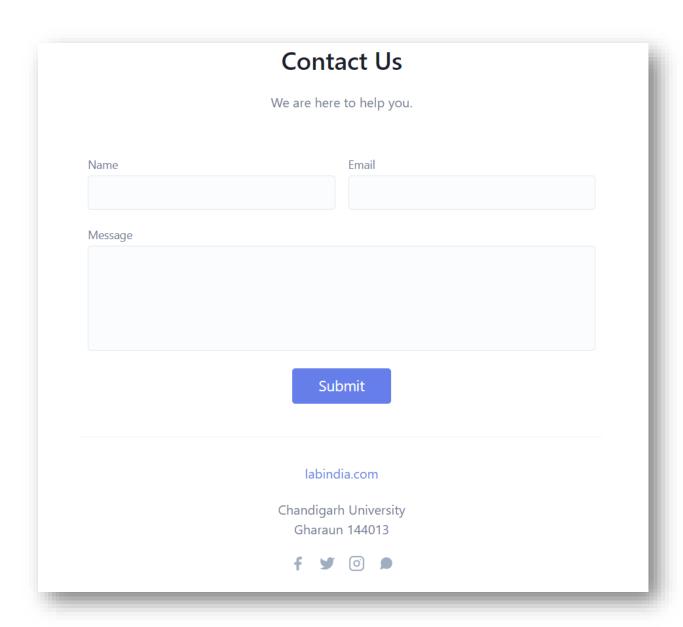


>A glance at the shopping page





A glance at the Feedback page



4. Results and Discussions

We have been working on your project for the best results. we have developed a simple e-commerce website that is yet to be hosted on a server after we will complete most of our thought ideas. Our website is still progressing and we are designing it user-friendly, easy to access, and use.

We will be comparing different rates of equipment all around India to give the best affordable prices of lab equipment on labindia. we will assure to provide best quality products from trusted retailers and manufacturers product.

We have also made a section to get in contact with our la India team for the product deal, getting information from the school, colleges as well as manufactures and retailers. this is a good way to get feedback directly from the users. it will also help us to expand our network. we will be working hard on improving through the suggestion given by the user. this can be beneficial if in case some products are not available on our website we can immediately rectify and add that specific item.

5. Conclusion and Future work

This project holds the potential to bring a bright change to the education system. This platform will increase the availability of equipment and it will connect organizations, schools, colleges to sellers. These opportunities will guide students to be more skillful and innovative. It will shift the education system from mugging up the information to practical experiences. If executed correctly It will lead to a drastic change in our research and development field. The boom in practical knowledge will lead to innovation and eventually, India's Global Innovation Index will improve.

6. References

https://cen.acs.org/articles/96/web/2018/03/Scientists-Indias-government-labs-struggle.html

https://www.leblond.in/blog/importance-of-including-well-equipped-laboratories-in-schools

https://www.wipo.int/global_innovation_index/en/2021/

https://timesofindia.indiatimes.com/india/75-of-schools-lack-decent-science-labs-survey/articleshow/40385273.cms

https://www.thehindubusinessline.com/business-tech/boosting-indiasscience-

budget/article64557824.ece#:~:text=India's%20Gross%20expenditure%20on%20R%26D,b)%20in%202018%2D19.

www.google.com

7. Appendix

Source link: http://127.0.0.1:5500/index.html

Source code:

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items-center">
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viewBox="0 0 24 24">
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5"></path>
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                         <a class="mr-5 hover:text-gray-900">Partners</a>
                         <a class="mr-5 hover:text-gray-900">About</a>
                         <a class="mr-5 hover:text-gray-900">Resources</a>
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in
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                         </svg>
                     </button>
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items-center">
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gray-900">Turning Insights into Innovations
                             <br class="hidden lg:inline-block">
                         A dedicated Platfrom for
affordable and quality laborartory equipments, Connect schools, colleges, and
organizations to sellers
                             Web of market and proximity to consumers , Multichain of
retailers and manufactures of companies
```

```
<div class="flex justify-center">
              <button class="inline-flex text-white bg-indigo-500 border-0 py-</pre>
2 px-6 focus:outline-none hover:bg-indigo-600 rounded text-
lg">Explore</button>
              <button class="ml-4 inline-flex text-gray-700 bg-gray-100</pre>
border-0 py-2 px-6 focus:outline-none hover:bg-gray-200 rounded text-lg">Join
</button>
            </div>
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          </div>
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      <section class="text-gray-600 body-font">
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              </a>
              <div class="mt-4">
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mb-1">optics</h3>
                <h2 class="text-gray-900 title-font text-lg font-</pre>
medium">Microscope</h2>
                Rs. 5,999
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Gauge</h2>
```

```
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medium">Beakers Set</h2>
                Rs. 299
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                <h2 class="text-gray-900 title-font text-lg font-medium">Van-
de-graaf generator</h2>
                Rs. 5,999
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          </div>
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900">Contact Us</h1>
      We are here to
help you.
    </div>
    <div class="lg:w-1/2 md:w-2/3 mx-auto">
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8.38 8.38 0 01-3.8-.9L3 21l1.9-5.7a8.38 8.38 0 01-.9-3.8 8.5 8.5 0 014.7-7.6
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    gray-200 sm:py-2 sm:mt-0 mt-4">0 2022 Labindia.com
      <a href="https://twitter.com/knyttneve" class="text-gray-600 ml-1"</pre>
rel="noopener noreferrer" target="_blank">@yash</a>
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3v1A10.66 10.66 0 013 4s-4 9 5 13a11.64 11.64 0 01-7 2c9 5 20 0 20-11.5a4.5
4.5 0 00-.08-.83A7.72 7.72 0 0023 3z"></path>
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      </a>
      <a class="ml-3 text-gray-500">
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linejoin="round" stroke-width="2" class="w-5 h-5" viewBox="0 0 24 24">
          <rect width="20" height="20" x="2" y="2" rx="5" ry="5"></rect>
          <path d="M16 11.37A4 4 0 1112.63 8 4 4 0 0116 11.37zm1.5-</pre>
4.87h.01"></path>
        </svg>
      </a>
      <a class="ml-3 text-gray-500">
        <svg fill="currentColor" stroke="currentColor" stroke-linecap="round"</pre>
stroke-linejoin="round" stroke-width="0" class="w-5 h-5" viewBox="0 0 24 24">
          <path stroke="none" d="M16 8a6 6 0 016 6v7h-4v-7a2 2 0 00-2-2 2 2 0</pre>
00-2 2v7h-4v-7a6 6 0 016-6zM2 9h4v12H2z"></path>
          <circle cx="4" cy="4" r="2" stroke="none"></circle>
        </svg>
      </a>
    </span>
  </div>
 /footer>
```

</html> 19