



# HS202 Project

## Human Geography and Societal Needs

### Group No. 08

- Nakul Singh (2022eeb1192)
- Tanushka Kumari (2022meb1357)
- Mili Prajapati (2022meb1325)

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## Title:

Education Bank: Your Gateway to Educational Empowerment.

## Abstract:

The detailed summary talks about how students often struggle with choosing their future careers, especially after finishing important exams in the 10th or 12th grades. This struggle is mainly because they might not have enough money, resources, or information to help them decide. Many students feel lost and unsure about which direction to take for their futures.

To help solve this problem, the idea is to create a special platform based on research and conversations with students. This platform would offer all kinds of free resources and advice about careers, all in one place. As due to financial problem students don't have that much of resources to prepare for exams. So, our platforms help that student by providing free resources. It's like a one-stop shop to help students figure out their career paths by giving them all the information and guidance they need. This way, students can easily explore different careers, learn what steps to take to reach their goals, and make decisions that are right for them. This solution aims to make the whole process of choosing a career less confusing and more straightforward, helping students to move forward confidently toward their dreams.

## The Issue:

### Problem Statement- What is the problem?

Students face significant challenges in determining their career paths and accessing adequate career guidance, stemming from a variety of factors including financial limitations, lack of guidance, restricted resources, insufficient information, parental influence, a lack of consistency, fear of failure, uncertainty regarding personal interests, challenges in self-awareness, and limited opportunities for exploration. In light of these challenges, there is a pressing need for a centralized platform that consolidates a comprehensive array of free resources and career advice. Such a platform would serve as a one-stop solution,

empowering students to navigate their career choices more effectively by providing them with the necessary information and guidance all in one accessible location. This initiative aims to facilitate informed decision-making processes for students, helping them to uncover and pursue their ideal career paths with confidence.

### Detailed description of the Problem

1. **Financial limitations:** Financial limitations pose significant obstacles to students' career planning and decision-making. Access to quality education, career counselling, and skill development is often hindered. A centralized platform offering free educational materials and professional guidance could mitigate these barriers, levelling the playing field for students from all backgrounds to pursue their aspirations without financial constraints.
2. **Lack of guidance:** Students face challenges in making informed career decisions due to a lack of guidance from mentors or counsellors. This gap can lead to misaligned choices and hinder personal growth. A centralized platform offering expert advice, mentorship, and career information can empower students to make confident decisions aligned with their interests and aspirations, fostering personal and professional fulfilment.
3. **Restricted resources:** Restricted resources hinder students' ability to explore and prepare for future careers, limiting access to educational materials, career tools, and development opportunities. A centralized platform offering comprehensive resources aims to counteract this challenge by providing access to educational content, career tools, and practical experiences in one accessible location. By eliminating barriers posed by resource limitations, the platform empowers students to make informed career decisions aligned with their goals and interests.
4. **Insufficient information:** Insufficient information hinders students' career decisions. To address this, a centralized platform offering comprehensive, up-to-date information on career paths, educational requirements, and job trends is crucial. By providing accessible resources, the platform empowers students to make informed decisions aligned with their interests and the evolving job market.

5. **Parental influence:** Parental influence often directs students' career choices, potentially limiting exploration of diverse options. A centralized platform offering comprehensive guidance empowers students to make decisions aligned with their own passions and strengths, rather than solely adhering to parental expectations.
6. **A lack of consistency:** Inconsistent career planning can cause confusion and indecision among students. A centralized platform providing reliable access to career information and guidance ensures consistency, helping students build well-informed career plans and boosting confidence in their decisions.
7. **Fear of failure:** Fear of failure can deter students from pursuing their desired career paths. A centralized platform offering comprehensive guidance and resources promotes resilience and exploration, empowering students to pursue their interests confidently despite this fear.
8. **Uncertainty regarding personal interests:** Uncertainty about personal interests can leave students feeling lost in career decisions. A centralized platform offering comprehensive resources facilitates self-discovery and exploration, helping students identify their interests and make informed career choices confidently.
9. **Challenges in self-awareness:** Challenges in self-awareness hinder students from identifying career paths aligned with their strengths and passions. A centralized platform offering self-discovery resources, including personality assessments and interest quizzes, empowers students to make informed and fulfilling career choices.
10. **Limited opportunities for exploration:** Limited opportunities for exploration restrict students' understanding of diverse career paths. A centralized platform offering comprehensive career information and resources broadens horizons, encourages curiosity, and enables informed career decisions.

### Current Developments in the Domain

In addressing the nuanced challenges students face in career selection, where singular platforms might not offer comprehensive, free resources without potential distractions or costs, there are several innovative developments across different platforms and services. Each targets specific aspects of the broader problem, providing valuable tools and resources to help students navigate their career paths more effectively. Here are some examples:

**1. Microlearning Platforms:** Platforms that offer short, focused learning sessions or videos on specific skills or subjects. These are designed to minimize distractions and provide quick, digestible insights. An example is Khan Academy, which offers free courses in a wide range of subjects, helping students explore their interests without the risk of falling into the rabbit hole of unrelated content.

**2. Open Educational Resources (OERs):** Universities and educational institutions around the world are increasingly making their course materials available online for free. MIT's Open Courseware and the Open University's Open Learn are examples where students can access high-quality educational content without any cost, allowing them to explore and learn about various fields.

**3. Non-profit Career Guidance Services:** Organizations like Road trip Nation and Career OneStop offer extensive career exploration tools and resources for free. These platforms focus on providing career advice, interviews with professionals, and guides on education pathways without the pressure of upselling or distractions.

**4. Government and Educational Institution Initiatives:** Many governments and educational bodies have launched platforms and programs aimed at providing career guidance and educational resources. For instance, the U.S. Department of Labor's My Next Move offers an interactive tool for career exploration, and many countries have their own career guidance portals with localized information.

**5. Skill-Based Learning Platforms with Free Tiers:** Websites like Coursera, edX, and Udacity offer courses from universities and colleges worldwide. Many of these courses are available for free (without certification) or offer financial aid for those who qualify, allowing students to gain knowledge and skills in their areas of interest without financial burden.

**6. Mentorship and Networking Platforms:** Platforms like LinkedIn and specialized mentorship programs connect students with professionals for guidance and advice. While LinkedIn has a premium tier, its basic free tier still offers significant networking opportunities, and many industry-specific mentorship programs are free to join.

**7. Library and Community Resources:** Public libraries and community centers often provide access to free workshops, career counselling, and educational resources. Digital library services like OverDrive or Libby offer access to eBooks and audiobooks on career development and education.

Each of these developments addresses specific barriers students may face, from financial constraints and information scarcity to the need for direct guidance and skill development. While no single platform may solve all challenges at once, the combined use of these resources can significantly empower students in their career exploration and decision-making processes.

## Initiatives taken previously and the Problems faced

### Initiatives Taken Previously:

- 1. Career Counselling Programs:** Schools or educational institutions may have offered career counselling sessions or workshops to help students explore different career options and understand their interests and strengths.
- 2. Online Resources:** Some students may have used online resources such as career assessment tools, informational websites, or forums to gather information about various careers.
- 3. Government Initiatives:** Government initiatives or programs aimed at providing career guidance and resources to students from disadvantaged backgrounds may have been available in some regions.
- 4. Community Support:** Community organizations or non-profit groups might have organized career fairs, workshops, or mentoring programs to support students in their career exploration.

## Problems Faced:

1. **Limited Access to Resources:** Many students, especially those from financially disadvantaged backgrounds, may have faced challenges in accessing resources such as career counselling services, educational materials, or internet connectivity.
2. **Lack of Comprehensive Guidance:** Existing career counselling programs or resources may have been limited in scope or depth, leaving students with insufficient information to make well-informed decisions.
3. **Overwhelming Choices:** The sheer number of career options available, coupled with limited guidance, may have overwhelmed students, making it difficult for them to narrow down their choices.
4. **Inequality in Access:** Students from marginalized communities or rural areas may have faced greater barriers in accessing career resources compared to their peers in urban areas or from more privileged backgrounds.
5. **Lack of Personalization:** Generic career advice may not have addressed the unique needs and interests of individual students, leading to a disconnect between the guidance provided and the students' aspirations.

By taking the problems students face and improving what's already out there, our platform will give students the specific help they need to figure out their careers. We'll make sure they have the right guidance and resources to tackle any challenges and make smart choices about their futures.

## Data Collection

We have selected students from various domains to serve as the subjects of our case study, with the objective of comprehending the challenges they typically encounter. We have effectively conducted a survey and pinpointed the issues it addresses, querying them about the problems they encounter. Additionally, we have collected data concerning their readiness to utilize free or low-cost platforms to address their issues.



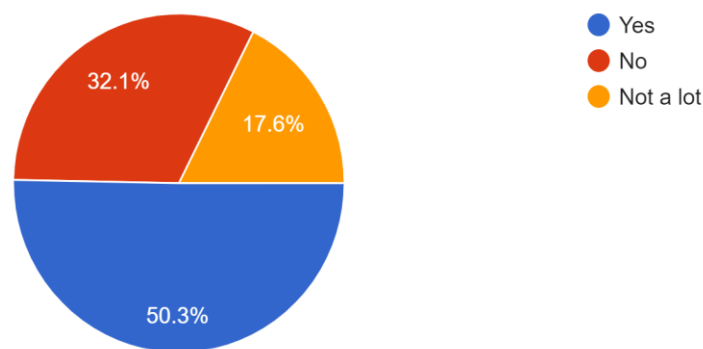
### Financial problem: -

In our survey, we found that **50.3%** of students cited financial constraints as a barrier when selecting their career path, particularly due to the need for coaching to achieve their goals. This indicates that nearly half of the students in India encounter financial challenges in

pursuing their studies. Consequently, our platform aims to provide these students with access to a range of free resources to alleviate this issue.

Have you faced any financial constraints in pursuing your educational goals, such as affording coaching or study materials?

165 responses

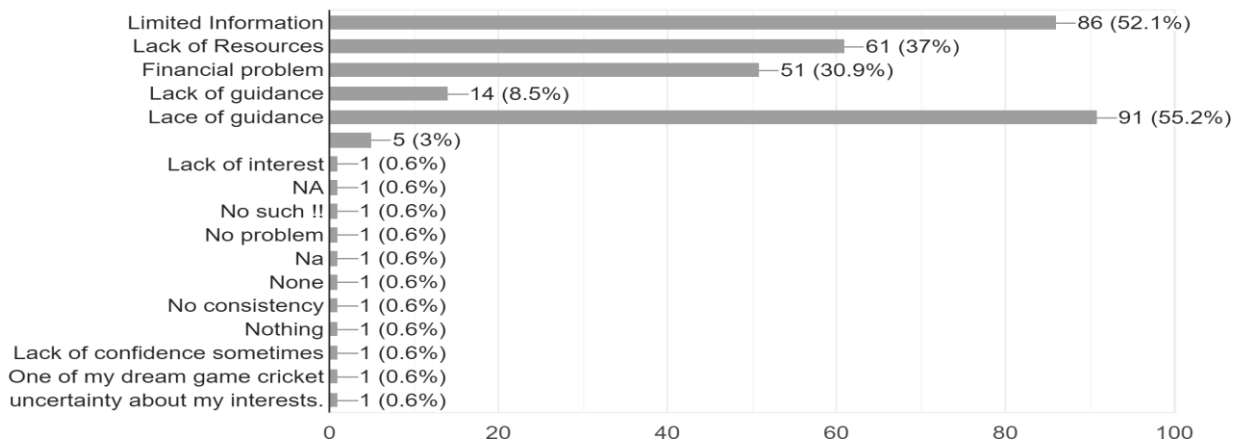


### Career Path Challenges: -

Our survey found that over half of students lack timely guidance and are unaware of opportunities in their field, while 37% face struggles due to information gaps. To address these challenges, our platform offers comprehensive guidance and resources for enhanced studying.

### What challenges have you encountered in choosing your career path?

165 responses

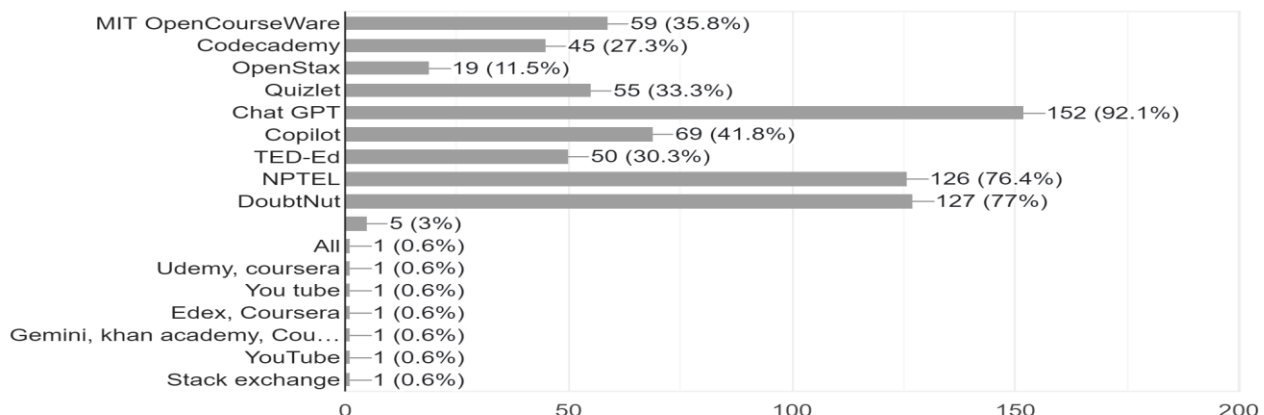


### Familiarity with free Learning Tools: -

From this data, it's evident that many students aren't aware of various free learning tools. For example, Codecademy, a platform offering free coding courses, is unknown to **72.7%** of students. Similarly, OpenStax, which provides free textbooks and resources, is unrecognized by **88.5%** of students. This suggests that there are numerous free learning tools available, but lack of information or awareness means students don't know about them.

### How many learning tools do you familiar?

165 responses

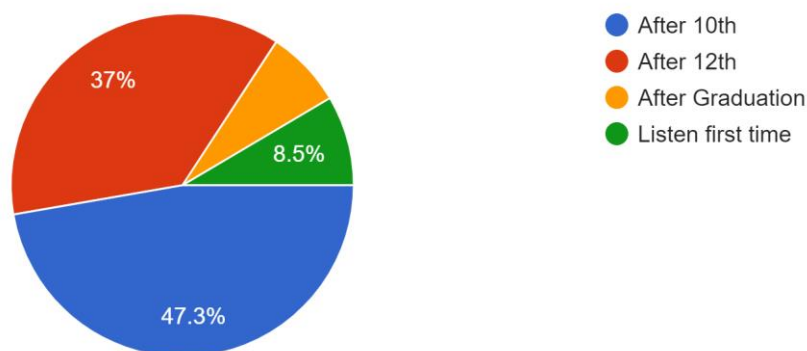


## Institution Awareness: -

We surveyed to gauge awareness levels among students regarding institutions like IIM, IISER, IIST, etc. The results revealed that 47.3% of respondents became aware of these institutions after the 10th grade, while 37% became aware after the 12th grade. Surprisingly, approximately 8.5% of respondents heard about these institutions for the first time during the survey. To solve this, we can provide exam preparation resources tailored to these institutions.

When do you know about IIM, IISER, IIST, etc.

165 responses

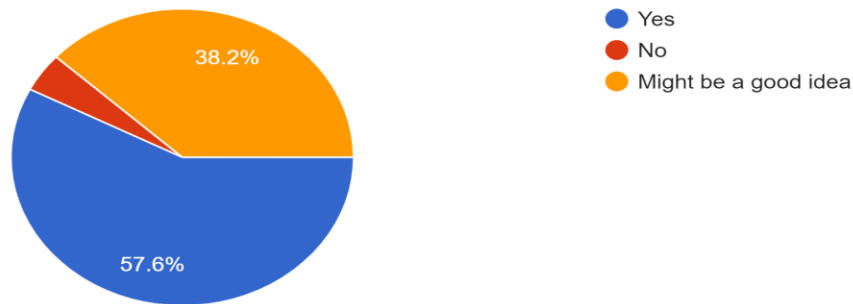


## Innovative Solution: -

Our survey gathered suggestions from students and graduates, emphasizing the need for proper guidance, free resources, and mentorship programs. In response, we propose the concept of "EDUCATIONAL BANK," a single platform offering comprehensive support and access to various resources. While 57.6% of respondents agreed with this solution, 38% expressed some reservations.

What do you think about the idea of creating a comprehensive platform that consolidates all aspects of educational support, including career g...ources, to enhance students' learning experiences?

165 responses



## Proposed Solutions

After a series of discussions with students and friends, and data collection through surveys, we brainstormed on various innovative solutions to tackle the various issues highlighted above. We decided to make a free educational website.

An Online website that provides

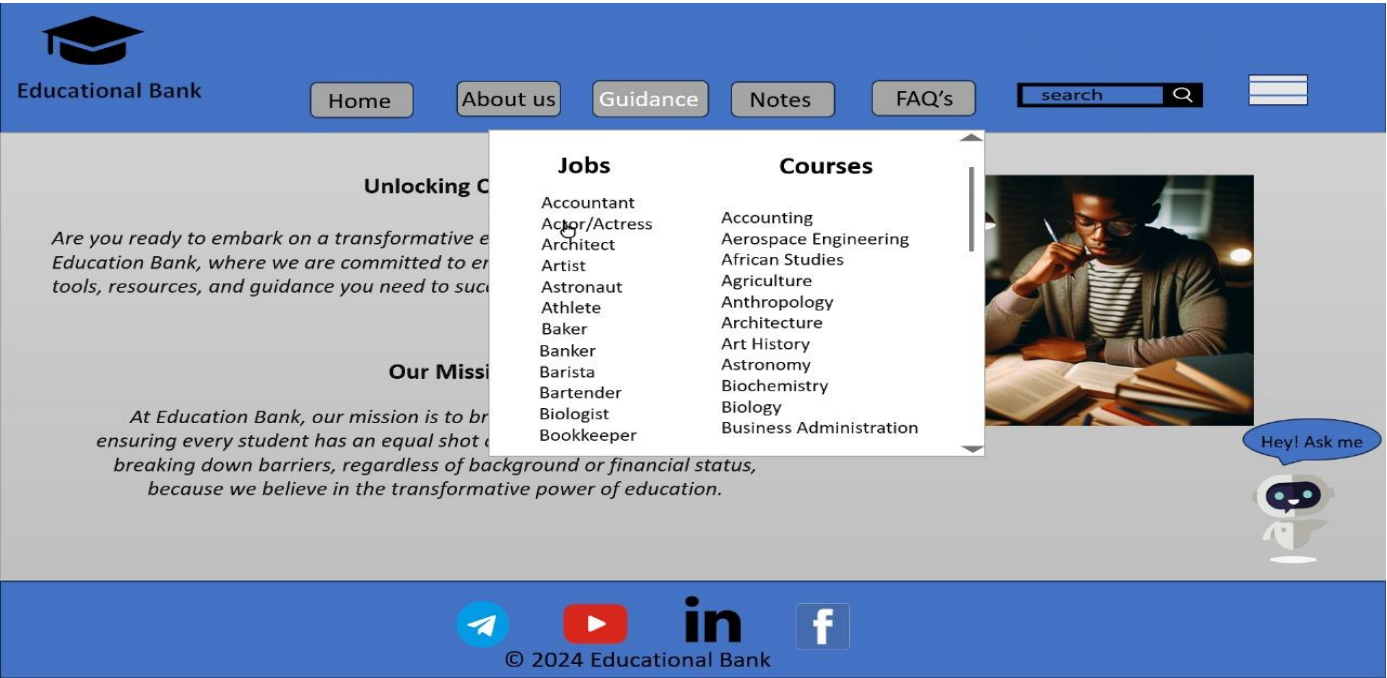
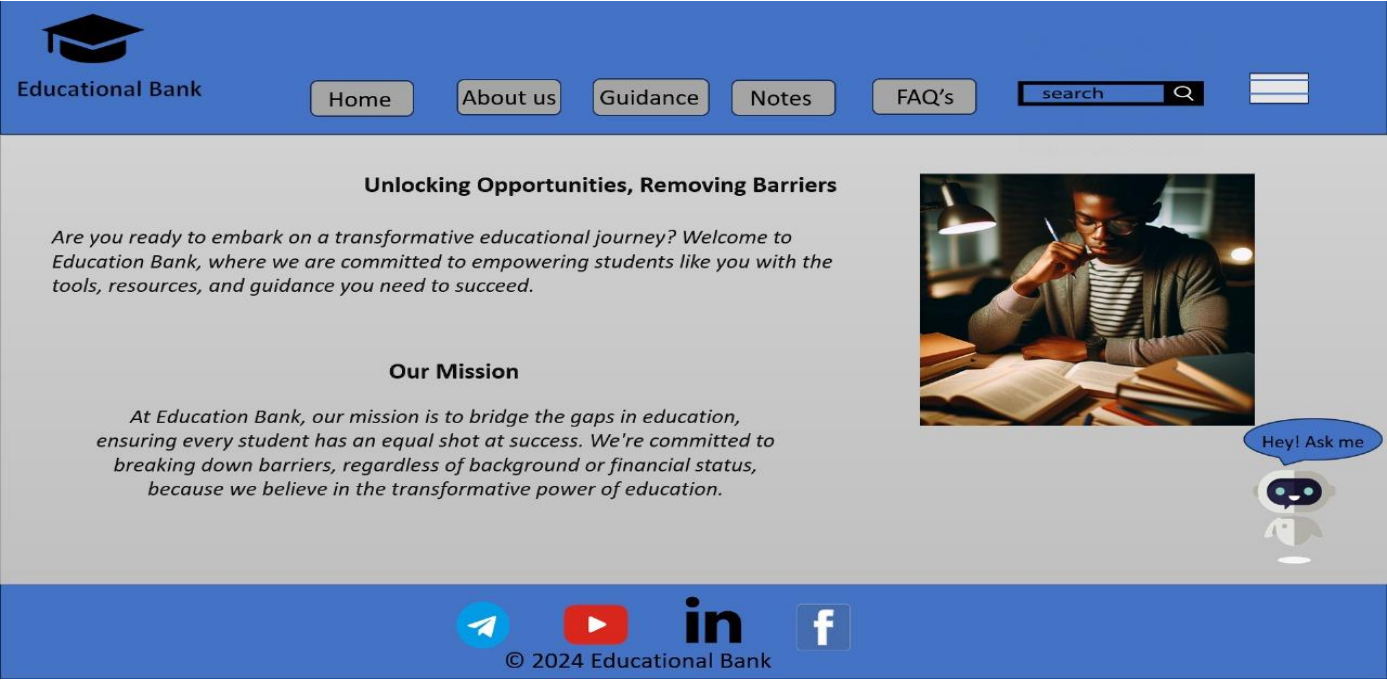
- ☐ students a comprehensive overview of available career paths, tailored to their interests and academic pursuits.
- ☐ Curating a list of websites offering free resources for exam preparation, such as DoubtNut for NEET, JEE, NDA exams, and NPTEL for higher education and skill development etc.
- ☐ Introducing students to advanced learning tools like OpenAI's ChatGPT, Copilot, and so on to enhance their educational experience.

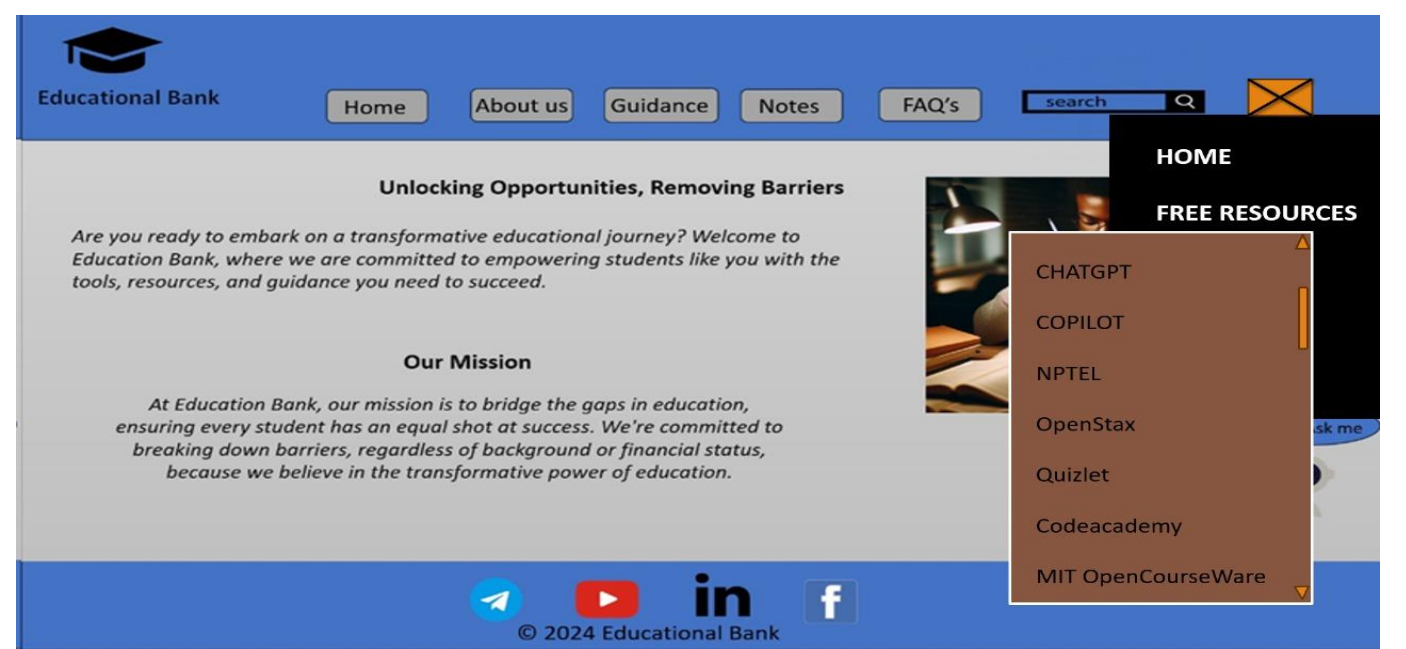
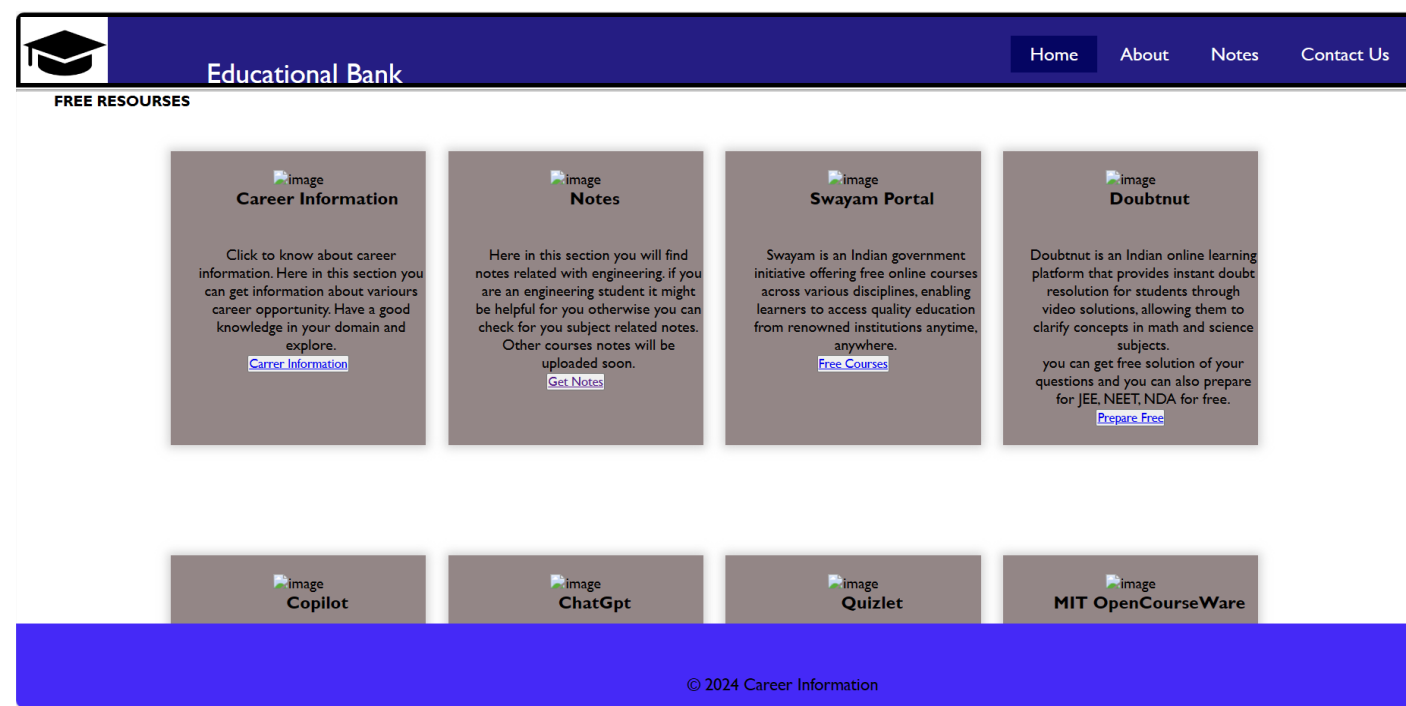
Our website named "Education Bank" consists of the following features:

- **Homepage Navigation:** it is designed to guide to essential resources.
- **Study Materials:** It provides study materials, which include textbooks, articles, and interactive content.
- **Share your notes:** One can share his/her notes to help other.
- **Tutorials and Guides:** providing tutorials for some specific courses initially and guidance for other important website and channels to get best material.
- **Personalized Learning:** One can take advantage of personalized learning plans or assessments to receive a customized educational approach.

- **Regular Updates:** for new content, updates, or features to stay current with the latest educational tools and information.
- **Career Guidance and Course Information:** This section is for career guidance, where one can find information on various courses tailored to specific job roles or fields

This feature is designed to help students make informed decisions about their career paths and understand the educational requirements for their desired professions.





Additional Insights:

- User Experience: The website’s user interface is intuitive, making it easy for students of all ages to navigate and find what they need.

- **Feedback System:** Implementing a feedback system can help the website continuously improve and cater to the users' evolving needs.

By following these steps and suggestions, users can fully explore the website and utilize its resources for academic growth, serving as a pathway to future career success.

## Detailed work plan

To give the users a website which can help them in their academic and career path, we are following a work plan which will work as follows:

- **Basic website format:** using user-friendly website-building platforms we make our website page.
- **Content Development Team:** by assembling a team of content creators, instructional designers, and subject matter experts like PhD scholars, Teachers and professors. We will provide the information provided above.
- **Platform Development:** we will focus on creating user-friendly platform for accessing the desired materials. This involves designing a database to categorize content and features that enhance user experience, such as search functionality and FAQs etc.
- **Provided content:** We'll categorize the content into relevant sections. If someone is seeking tutorials, articles or quizzes he can get it very Easily.
- **Soft Launch and Testing:** Before the full launch, we'll conduct a soft launch to a select group of users. This allows us to gather feedback, identify any technical issues or usability concerns, and make necessary adjustments to optimize the platform.
- **Full Launch:** Once we've addressed any issues discovered during the soft launch phase, we'll proceed with the full launch of the website. It will be made accessible to the public, adhering to all necessary guidelines and regulations.
- **Marketing Strategy:** We'll collaborate with marketing experts to develop a comprehensive strategy to promote our website. This may include leveraging social media platforms, partnering with influencers in the education sector, and implementing paid advertising campaigns to reach our target audience effectively.
- **Continuous Improvement and Monitoring:** After the launch, we'll establish a dedicated team responsible for monitoring the platform's performance, user engagement, and content quality. Regular updates, maintenance, and addressing user feedback will be integral to ensuring the website remains relevant and valuable to our users.



## Feasibility & sustainability of the proposed solution

### Feasibility:

#### 1. Market Demand Assessment:

- Analyze the educational market to understand if there's a real need among students for accessible educational resources.
- Determine if students are seeking affordable and quick access to study materials and academic assistance.

#### 2. Technical Feasibility:

- Assess whether developing the website within budget and time constraints is possible.
- Address technical challenges related to functionality, security, and user experience.
- Ensure the website remains technologically relevant through consistent updates and improvements.

#### 3. Marketing and User Acquisition:

- Create a marketing plan tailored to attract students to our website.
- Be ready to change when what people want and who they are changes, so we can keep having lots of people use our website.

#### 4. User Trust and Safety:

- Continuously refine safety protocols to protect users from scams and fraud.

### Sustainability:

#### 1. User Engagement and Satisfaction:

- Actively engage with users to gather feedback and improve satisfaction.
- User contribution by sharing their study content to provide other.

#### 2. Innovation:

- Introduce innovative features and services to meet evolving educational needs.

#### 3. Community Building:

- Foster a sense of community among users to encourage active participation and loyalty.

#### 4. Environmental Responsibility:

- Implement eco-friendly practices, such as reducing paper usage and promoting digital learning materials.

#### 5. Adaptability:



- Remain flexible and ready to adapt to changes in technology and user behaviour to remain competitive.

## Innovation of the proposed interventions

**Instant Q&A:** Get real-time answers to your questions.

**Verified Student Profiles:** Trustworthy verification of student accounts for a safe learning environment.

**Virtual Labs:** Providing information about many simulations' software (also available online) and providing a single platform where one can learn basic of these.

**Quick Access to Resources:** Instant access to a vast library of educational materials, sorted by courses and subject.

**Tutorial practicing:** providing best information about a subject and tutorial platform as well as how one can use the most basic and free tools solving some special type of problems.

**User-Generated Study Guides:** Access user-created study guides and notes for additional support.

**Campus-specific Content:** connecting with users from many institutes and with a hope that they will also share their study material so that one can Filter educational content based on his/her school or institution for relevance.

**Environmental Awareness:** Highlight eco-friendly practices and sustainable learning resources.

**Data Security and Privacy:** Ensure secure handling of user data and transparent privacy practices.

**Social Impact Initiatives:** providing information about most trustable and beneficial scholarship website as well as well-known scholarship program with official links.

## Possible constraints and barriers to implementation

Launching a free educational website presents an opportunity to provide accessible learning resources to a broad audience. However, the implementation process comes with its own set of constraints and barriers that necessitate careful planning and strategic solutions. There are some as following:

1. **Limited Resources:** We leverage free online tools and collaborate with volunteers to maximize resources during development, ensuring efficiency without compromising quality.
2. **Technical Expertise:** Utilizing user-friendly website-building tools ensures accessibility for all users, regardless of technical proficiency, while allowing us to maintain control over the platform's technical aspects.
3. **Content Development:** Partnerships with content creators facilitate the curation of diverse, engaging educational materials tailored to user needs, ensuring the platform offers valuable and relevant resources.
4. **User Engagement:** Through interactive features, community engagement, and gamification elements, we enhance user interaction and foster a dynamic learning environment, encouraging active participation and retention.
5. **Accessibility:** Adherence to web accessibility standards and features like screen reader compatibility promote inclusivity for all learners, ensuring equal access to educational content.
6. **Scalability:** Our website architecture prioritizes scalability, with hosting solutions prepared to accommodate future growth, ensuring seamless user experiences as the platform expands.
7. **Funding and Sustainability:** We explore diverse funding avenues, including grants and sponsorships, to ensure the platform's long-term viability, allowing us to sustainably support ongoing development and maintenance efforts.
8. **Technological Infrastructure:** Ensuring a reliable technological foundation is paramount for the platform's performance and reliability, requiring ongoing maintenance and upgrades to meet evolving user needs and technological advancements.
9. **Content Curation and Quality Control:** Rigorous content curation processes and regular updates maintain high-quality, relevant educational content, ensuring users receive accurate and up-to-date information.
10. **User Support and Feedback:** Responsive user support channels and feedback mechanisms drive continuous improvement and user satisfaction, allowing us to address user inquiries, resolve issues, and incorporate valuable insights for platform enhancement.

## Expected Outcomes

Our goal with the "Education Bank" website is to provide students like us with an easy-to-use platform for learning and career planning. We want to offer comprehensive career guidance, useful study materials, and advanced learning tools to help everyone make informed decisions about their future. Our website will be easy to navigate, and we'll keep improving it based on feedback to make sure it stays helpful and relevant for all users. Here are some expected benefits:

- Comprehensive Career Guidance: Students get personalized career paths to help them make smart decisions about their future jobs.
- Curated Study Resources: Free, reliable materials save time and enhance learning.
- Advanced Learning Tools: Innovative tools foster critical thinking and deeper understanding.
- User-Friendly Interface: Intuitive design ensures easy access for all users.
- Personalized Learning: Personalized plans help one to learn better by focusing on what he or she need.
- Career Guidance and Course Information: Learning more about different job options helps pick the best.
- Continuous Improvement: improving things based on feedback to stay relevant over time

## Conclusion

The "Education Bank" initiative aims to be the go-to resource hub for students worldwide, offering free tools and guidance to help them navigate their education and career paths. With a focus on accessibility and inclusivity, we're dedicated to providing support to every student, regardless of their background or financial constraints. By listening to user feedback and staying up-to-date with technology, we're committed to ensuring that our platform remains user-friendly and sustainable in the long run. Together, we're empowering students to make informed decisions about their futures and achieve their goals.

## Contribution and Expertise available with each student to contribute in the development of the intervention

Name of the Student	Contribution in Project
NAKUL	<p><b>Area of Expertise</b></p> <ul style="list-style-type: none"> <li>Constructs the website's backend, oversees data storage and security, and integrates content management systems.</li> </ul> <p><b>Contributions</b></p> <ul style="list-style-type: none"> <li>Problem statement and detailed description of the identified problem</li> <li>Abstract</li> <li>Data collection</li> <li>Website design</li> <li>Expected outcome</li> <li>Conducted insightful conversations with students and collected their anecdotes for the project.</li> </ul>
TANUSHKA KUMARI	<p><b>Area of Expertise</b></p> <ul style="list-style-type: none"> <li>Develops educational content, enhances the website's search engine visibility, and interacts with the community for feedback and contributions.</li> </ul> <p><b>Contributions</b></p> <ul style="list-style-type: none"> <li>Current development in the domain</li> </ul>

	<ul style="list-style-type: none"> <li>• Initiative taken previously and the problem faced</li> <li>• Proposed solution</li> <li>• Data collection</li> <li>• Graphical representation of the data collected from the survey.</li> <li>• Possible constraints and barriers to implementation</li> <li>• Conclusion</li> </ul>
MILI PRAJAPATI	<p><b>Area of Expertise</b></p> <ul style="list-style-type: none"> <li>• Designs the website's appearance, including logos and visuals, and tests its ease of use.</li> </ul> <p><b>Contributions</b></p> <ul style="list-style-type: none"> <li>• A detailed work plans</li> <li>• Feasibility and sustainability of the proposed solution</li> <li>• Innovation of the proposed interventions</li> <li>• Possible constraints and barriers to implementation</li> <li>• Origin/Identification of the problem</li> <li>• Data collection</li> </ul>

## References

<https://mr-iittian-notes.vercel.app/> this site is created by our team it consists of a practical demo of our project.