“**MARKETPLACE FOR OPEN SCIENCE PROJECTS**”

* TEAM MASSIVE MINDS

HIGH LEVEL PROJECT SUMMARY:

This challenge entails the development of an innovative online marketplace exclusively dedicated to open science projects. The envisioned platform will serve as a central hub where researchers can publish, collaborate on, and discover a wide array of open science projects across various domains. It will offer a user-friendly interface with features such as project listings, advanced search capabilities, collaborative tools, version control, licensing options, and mechanisms to support funding and recognition for contributors. The primary objective is to revolutionize the way scientific research is shared and foster a culture of transparency, reproducibility, and collaboration in the research community, ultimately accelerating the pace of scientific advancements.

DEMO LINK:

LINK TO FINAL PROJECT:

<https://github.com/Abhi-Shek-2003/nasa-space-apps>

LINK TO PROJECT REPRESENTATION:

<https://docs.google.com/presentation/d/1SgvtZLJ64TGPsbJdR9lc9Oi16L26jEdM/edit?usp=drivesdk&ouid=100283104080705510880&rtpof=true&sd=true>

DETAILED PROJECT DESCRIPTION:

1. Introduction:

In the realm of scientific research and innovation, open source projects hold immense potential, driving progress in various domains. Nevertheless, a persistent challenge within the scientific community is the effective connection of passionate contributors with projects in need of specialized skills. "Science Market" is a web application designed to revolutionize collaboration within the scientific community by addressing this challenge.

1. Project Goals:

Science Market's primary objective is to create a platform that seamlessly connects science enthusiasts (contributors) and research project creators, thereby facilitating collaboration and innovation.

3. Key Features:

* User Profiles: Users can create profiles showcasing their scientific expertise, research interests, and availability.
* Project Listings: Project creators can post research projects, detailing their requirements, objectives, and the type of contributors they seek.
* Search and Filters: Contributors can search for research projects based on various criteria, such as scientific fields, project stage, and research goals.
* Real-time Messaging: Integrated chat functionality allows instant communication between contributors and project creators.
* Dashboard: A project-specific dashboard displays research project milestones, progress tracking, and performance analytics.

4. Benefits:

* Efficiency: Science Market streamlines the process of finding and contributing to scientific research projects, reducing the time and effort required for matchmaking.
* Transparency: The platform enhances transparency by offering progress tracking and performance analytics for research projects.
* Community Building: Science Market fosters a sense of community by connecting science enthusiasts with similar interests and research goals.

5. Impact:

Science Market has the potential to foster increased innovation and collaboration within the scientific community, encouraging more individuals to contribute their scientific skills and ideas to meaningful research projects.

6. Future Development:

Future enhancements could include integration with scientific data repositories, peer review systems, and expanding support for various scientific disciplines.

7. Conclusion:

Science Market represents a promising solution for addressing the collaboration gap in scientific research and innovation. This project aims to empower both contributors and research project creators, enabling them to collaborate effectively, drive scientific progress, and advance research projects within the scientific community.

FEDERAL CROWDSOURCING AND CITIZEN SCIENCE CATALOG DATA

How NASA’s Data helped us:

Link for our analysis on the data about past similar projects other people have worked on :

<https://colab.research.google.com/drive/1v_RQ0R-dIcoaXJsvhUNTVM3WP2jGhMX7?usp=sharing>

1. Project Discovery and Curation:

Federal crowdsourcing and citizen science catalogues often curate a wide range of projects. Leveraging this data, a marketplace can offer a diverse selection of open science projects for potential participants to discover, aligning with their interests and expertise.

2.Project Classification and Taxonomy:

Catalogue data often includes project classifications based on various criteria such as scientific domain, methodologies, objectives, and more. By utilizing this taxonomy, the marketplace can categorize projects for easy navigation and search, aiding users in finding projects relevant to their preferences.

1. Impact Assessment:

Catalogue data may include impact assessments of projects, indicating their contributions to scientific research or community initiatives. The marketplace can showcase these impact assessments to highlight the significance and outcomes of participating in specific projects, attracting more participants.

1. Trends and Insights:

Analysing catalogue data over time can provide trends and insights into

the evolution of open science projects, participant engagement patterns,and

emerging areas of interest. The marketplace can use these insights

offerings and strategies accordingly.

HACKATHON JOURNEY:

Participating in the Space Apps Challenge has been an ongoing learning experience. We joined the Bengaluru local event hosted at Jain (deemed-to-be-university), where the atmosphere was incredibly enthusiastic and motivating, propelling us beyond our initial expectations.

Our motivation for entering this challenge stemmed from the growing interest, and we aspired to contribute through innovative design. Despite time constraints, we utilized a modular approach inspired by smart home furniture, although we couldn't model as many CAD designs as initially planned.

We express our gratitude to Mr. Sundar MN, our local lead, for providing continuous guidance and support during the hackathon. Additionally, we extend our thanks to all the mentors from diverse fields for their valuable feedback and contributions.

REFERENCES:

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<https://www.locofy.ai/>

<https://youtu.be/q_jDixroQkw?si=DqzJ1D2rktXkkbBI> <https://github.com/Abhi-Shek-2003/nasa-space-apps>