Book Donation Platform

Hiten Arya[1] | Prof. Dr. Amita Goel[2] | Asst. Prof. Nidhi Sengar[3] | Asst. Prof. Vasudha Bahl[4]

[1]Information Technology, Maharaja Agrasen Institute of Technology,
[2]Professor, Information Technology, Maharaja Agrasen Institute of Technology
[3]Assistant Professor, Information Technology, Maharaja Agrasen Institute of Technology
[4]Assistant Professor, Information Technology, Maharaja Agrasen Institute of Technology

ABSTRACT

India is stream rolling its way into development but illiteracy continues to plague a large section of the people in India. However, in the recent times many children have shown the urge to learn, to be educated and started attending schools. Despite being able to attend school these children are unable to afford academic books due to high prices of the books. Often the libraries of our educational institutions lack quality educational and informative books. This deters students from reading and acquiring adequate knowledge on different subjects.

A web-portal based solution is proposed for the above problems which aims to bring book donor and book needers to the same platform to promote reuse of old books and develops a culture of reading and share which also leads to the protection of environment.

I. INTRODUCTION

Our main goal is to recirculate books back into the hands of people who will read and treasure them.

Books play a vital role in a student's life, many say "Books are our best friends" but unfortunately there are many underprivileged students who do not have access to basic books. For every academic term or semester, thousands of new textbooks are being printed,bought, and used. Approximately 425 million trees are cut down in a month across the world and 35 percent of the total trees cut around the world are used in paper industries on every continent. That equates to about 2.47 million trees cut down every day. The outcomes are unfathomable! Donating your books, textbooks and study notes can help in recycling, saves trees thus reduces pollution in the air.

Every year we buy books for the next class or course. We should start utilizing old books and at the same time get into a habit of donation our textbooks as well as other books. We also prolong the life of these books we donate thus expanding their purpose and influence in a fascinating way. Taking the opportunity to donate or recycle your books helps you save your planet.

On the other hand, almost the same number of textbooks and course material are being discarded after its use and find its way to the garbage bins ultimately landing at the landfill site where they are being buried, compacted, and disposed of occupying the precious land area. Usually, these textbooks are not being reused or recycled generating huge quantities of paper waste.

II. BENEFITS

When you donate your books, you allow the opportunity to let those texts have new life. Whether they end up in the hands of a young teen looking for an exciting new story to read, or they become part of a collection on someone else's shelf, donating your books expands their purpose and influence in a fascinating way.

1. Environmental Impact:

Paper releases methane gas as it decays in a landfill, taking the opportunity to donate or recycle your books doesn't just reduce the use of resources and chemicals – it also decreases the harmful gases that are released into the Earth's atmosphere when paper books are thrown away. The best option for teachers and students who want to be planet-friendly with their old texts is to donate them.

Along with other trash products, old and outdated books that are thrown away can wind up rotting for decades in these polluting environments.

Donating books to gives other people the opportunity to discover a book they love that hasn't cost more trees. Plus, if a book can't find a new home, it moves on to specialist book recyclers so that it doesn't just end up on a landfill site.

2. Charitable Support:

Books help children make sense of the world around them, impart morals and values to them, often without sounding preachy, teach them empathy, and the difference between right and wrong. Moreover, children who can't read are unable to learn and this impacts their schooling.

By donating books you give other people the opportunity to discover for themselves that ONE book that could change their life. Passing on your books to someone else is the simplest way to spread the spirit of reading.

3. Literacy:

First Step to Literacy: Getting Books in the Hands of Children.

From primary school to university, pupils and students need books to help them succeed. Donation of books to schools around the world would help the students reach their full potential thus increasing the literacy rate.

Books are for knowledge and knowledge is long-lasting. when Students get the books, they learn, they perform better, they go for further studies, they come back, they get good jobs and now the communities will improve.

4. Equality of opportunity :

Everyone should have the opportunity to read, whatever their circumstances. Support people from all walks of life in their efforts to access the books they need to achieve their goals by donating them. Everyone should has access to books that will enrich, improve and change their lives. Books have the power to change lives.

III. Proposed Solution

Our vision is to bridge the gap between those having books and those who need books. To overcome these social and environmental problems, a platform is needed which facilitate donation of books.

Executing these things on a large scale is very cumbersome and requires a lot of capital investment. To tackle this problem, we proposed a web portal based solution in which donor just need to fill details of books which he/she wants to donate. Portal will generate an advertisement in a particular category, which contains all the valid details of the donated book filled by the donor with his contact number. If a needy person goes to a particular category of donated books, he/she will see a list of donated books of that category in a sorted order according to the geographical distance between his location and the donor's location.

After getting an advertisement for the needed book, a needy person can contact the donor through the donor's contact number and can set a meeting according to their mutual understandings. Also a needy can generate a

request for a particular book of his/her wish so that if a potential donor watches that advertisement and realizes that he has that particular book and willing to donate can contact the needy and set a meeting according to their mutual understandings.

IV. RESULTS

A web based portal is made to make books available for underprivileged students and to protect the environment by reusing old books. This portal will make a large impact on a global level and develop the culture of reading & share.

This web platform provides a platform to connect book donator with book requestors and vice versa. Book donator refers to people or organizations who want to donate their old books. Book requestor refers to people or organizations who want to get books for their academic and reading purpose. In this paper, I have discussed a platform that will enable everyone to have a hassle-free exchange of books between book readers from their own neighborhoods.

This way, paper consumption would be much lesser than otherwise, and Economically backward people can also be benefited from this platform.

V. DISCUSSION & FUTURE SCOPE

This web-based portal has a significant advantage over other portals as in this working model there is no need for volunteers to provide pick and drop facility for books. Also in this proposed model, there is no need of having large stores/libraries which reduces expenses drastically. One more advantage is that the portal is not made for a particular country, in fact, it can work for all countries as we show advertisements in sorted order of user's geographical locations.

In the future, the proposed portal can have many more features such as "Exchange" which can be useful for novels and other books in which after reading a book a user can generate his advertisement for exchanging his book with any desired book and will be contacted if some other user is interested in that deal. This will promote the culture of reading and share.

VI. References

[1] https://www.researchgate.net/publication/226030244_The_environmental_potential_of_reuse_An_application_to_used_books
[2] https://www.booksarewings.org/green-literacy/
[3] https://link.springer.com/article/10.1007/s11625-010-0115-z
[4] http://web.mit.edu/ebm/Publications/reuse_paper.pdf
[5] https://www.intechopen.com/books/environmental-management-in-practice/the-effects-of-paper-recycling-and-its-environmental-impact
[6] https://blog.blueland.com/the-environmental-impacts-of-paper-books-vs-e-readers/
[7] https://www.nwf.org/~/media/PDFs/Eco-schools/McGraw%20Hill/12-4-12%20A%20Research%20Study%20on%20Textbook%20Recycling.ashx
[8] https://theconversation.com/weighing-the-environmental-costs-buy-an-ereader-or-a-shelf-of-books-8331
[9] https://www.brodartbooks.com/environmental-commitment
[10] https://www.conserve-energy-future.com/are-books-recyclable.php
[11] https://en.wikipedia.org/wiki/Environmental_impact_of_paper
[12] https://perfectdaytoplay.com/childrens-books-environment/
[13] https://www.upcyclestudio.com.au/blogs/sustainable-living/the-environmental-social-and-personal-benefits-of-upcycling
[14] https://www.epa.gov/recycle/reducing-and-reusing-basics
[15] https://www.sciencedirect.com/science/article/pii/S0959652618305985
[16] http://livingzerowaste.org/en/whats-more-sustainable-ebook-or-book/
[17] http://livingzerowaste.org/en/whats-more-sustainable-ebook-or-book/

[18] https://www.thebetterindia.com/179656/tamil-nadu-government-green-initiative-school-book-banks-india/

[19] https://blog.billeasy.in/the-environmental-impact-of-paper-41d36c055ffd

[20] https://www.bc.edu/content/dam/files/schools/cas_sites/envstudies/pdf/Student%20Research/2015%20project%20paper/paper-2.pdf

[21] https://www.ecomena.org/reuse-recycling-textbooks/

[22] https://recyclenation.com/2015/09/how-to-recycle-books/

[23] https://bookscouter.com/tips/where-to-recycle-textbooks

[24] https://scholarworks.rit.edu/cgi/viewcontent.cgi?article=9041&context=theses

[25] https://www.amazon.in/Environmental-Impacts-Waste-Paper-Recycling/dp/1138422967

[26] https://www.bookfinder.com/books/green_used_books/

[27] https://www.scientificamerican.com/article/environmental-problem-phone-books/

[28] https://wasteadvantagemag.com/the-best-9-books-on-recycling/

[29] https://ec.europa.eu/environment/life/project/Projects/index.cfm?fuseaction=search.dspPage&n_proj_id=3739

[30] https://ec.europa.eu/environment/life/project/Projects/index.cfm?fuseaction=search.dspPage&n_proj_id=3739

[31] https://www.nytimes.com/2006/07/09/books/review/09donadio.html

[32] https://www.greenmatters.com/news/2017/09/15/1vvQRq/publishing-sustainable

[33] https://www.elsevier.com/books/plastic-waste-and-recycling/letcher/978-0-12-817880-5

[34] https://www.explainthatstuff.com/recycling.html

[35] https://www.theworldcounts.com/stories/Environmental_Impact_of_Paper_Production

[36] https://duesllc.wordpress.com/2017/10/05/10-ways-to-keep-books-out-of-landfills/

[37] https://www.chroniclebooks.com/pages/environmental-policy

[38] https://www.booksellers.org.uk/BookSellers/BizFormFiles/ff8cc188-ff92-4c1b-906c-4b60f04712bf.pdf

[39] https://www.ingramspark.com/environmental-responsibility