ASSIGNMENT 1 FRONT SHEET

Qualification	BTEC Level 5 HND Diploma in Computing		
Unit number and title	Unit 06: Managing a Successful Computing Project		
Submission date		Date Received 1st submission	
Re-submission Date		Date Received 2nd submission	
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Class	GCH1002	Assessor name	Đỗ Tiến Thành

Student declaration

I certify that the assignment submission is entirely my own work and I fully understand the consequences of plagiarism. I understand that making a false declaration is a form of malpractice.

	Student's signature	

Grading grid

P1	P2	P3	P4	M1	M2	D1

✿ **Summative Feedback:**		✿ **Resubmission Feedback:**

Grade:	**Assessor Signature:**	**Date:**

IV Signature:

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I.   Introduction

Currently, the problem of air and environmental pollution is increasing over time. According to the information I find, Vietnam is classified as one of the countries with the highest amount of waste in the world. Therefore, in this report, the author will plan to build a project to develop plastic waste recycling. Some plans will discuss such as scope, WBS, budget, risks,....

II.   Project Plan

1. Scope

Currently, the problem of air and environmental pollution is increasing over time.

According to the information I find, Vietnam is classified as one of the countries with the highest amount of waste in the world.

Especially because awareness of the dangers of plastic waste is still incomplete, there are still many individuals who have the habit of littering indiscriminately or not classifying waste at the source, leading to plastic pollution. Therefore, the reality of plastic waste pollution causes many negative and heavy impacts directly on the living environment of organisms and humans.

Secondly, the treatment of plastic waste in Vietnam still has many shortcomings, most of which are disposed of by burying; only 10% of it is recycled. Meanwhile, plastic waste is very difficult to decompose in the natural environment.

So, in order to minimize the environmental pollution, I decided to create a website about recycling called "Green Environment" and spread the word to everyone to "Separate and recycle plastic products that are still usable."

My goal when doing this "Green Environment" is to reduce environmental pollution, buy recyclable things to resell to everyone, and help people limit the use of non-biodegradable things.

The "Green Environment" project has a clear and easy operation process for users.

First, the 'Green environment' is divided into three parts: To store information about products before recycling (only admin has access), customer information (only admin has access) and information - the price of the product when it is recycled (can be viewed by both admins and users).

To store recycled product information, we need to classify products into appropriate groups. After sorting the products, the admin will save the information in the database so that the staff can easily control the products every time they are recycled.

After the product is successfully recycled, it will push the product into the "Green Environment" application, which is an important part of the working cycle. Because after the product is recycled, the administrator will check it and then push it up. Admin will have the right to add, edit, and delete products.

When entering the application, the user will see product information and the price of the product after being recycled, information on where to receive recyclables and partners, as well as how to contact "Green Environment."

I connected to MGreen in order to test the "Green Environment" app. I want to bring this "Green Environment" closer to users. Let people know that plastic waste is also recyclable. This trial will take place within six months, from advocacy to sorting garbage for recycling to successful recycling and being put into the "Green Environment" application.

According to MGreen's report, using this "Green Environment" application is not difficult and very easy to use. "Thanks to it, the production process is easier, saving time, and employees can easily grasp the work and reduce the amount of waste that goes outside," MGreen said. About 4 months after the customer used the "Green Environment" application, it brought me 2 billion VND in revenue. "Green Environment" has received a lot of positive feedback from customers about the product, not only for its reasonable price but also for being very useful for daily life.

After looking at the website of MGreen, I see a lot of interesting things to apply to my 'Green Environment' application:

Create many projects related to the recycling of plastic waste.

100% of profits to be reinvested into society.

Recycling plastic waste not only helps save and protect natural resources, but also helps your family save money on buying items. Besides, recycling also helps to protect and minimize the problem of environmental pollution.

Our project is to implement a plastic waste recycling website, but there is no support application for smartphones yet. I will try to develop software for this on smartphones.

2. Project Objectives

Attract users - I hope that this project will succeed, attract a large number of customers, and assist people in reducing the amount of waste in the environment, thereby assisting the environment to be green, clean, and attractive to many visitors.

User behavior - Customers are already aware of the "Green Environment" application due to its ability to mobilize and spread, and thanks to the application, environmental pollution is reduced. People are becoming more environmentally conscious; instead of throwing things away, we can sort and recycle them into items that improve our lives.

Effectiveness - Plastic waste recycling is still uncommon, and plastic waste collection and classification are critical in today's world. As a result, it is hoped that this project will help to protect the environment and reduce pollution.

3. Project schedule (Gantt Chart)
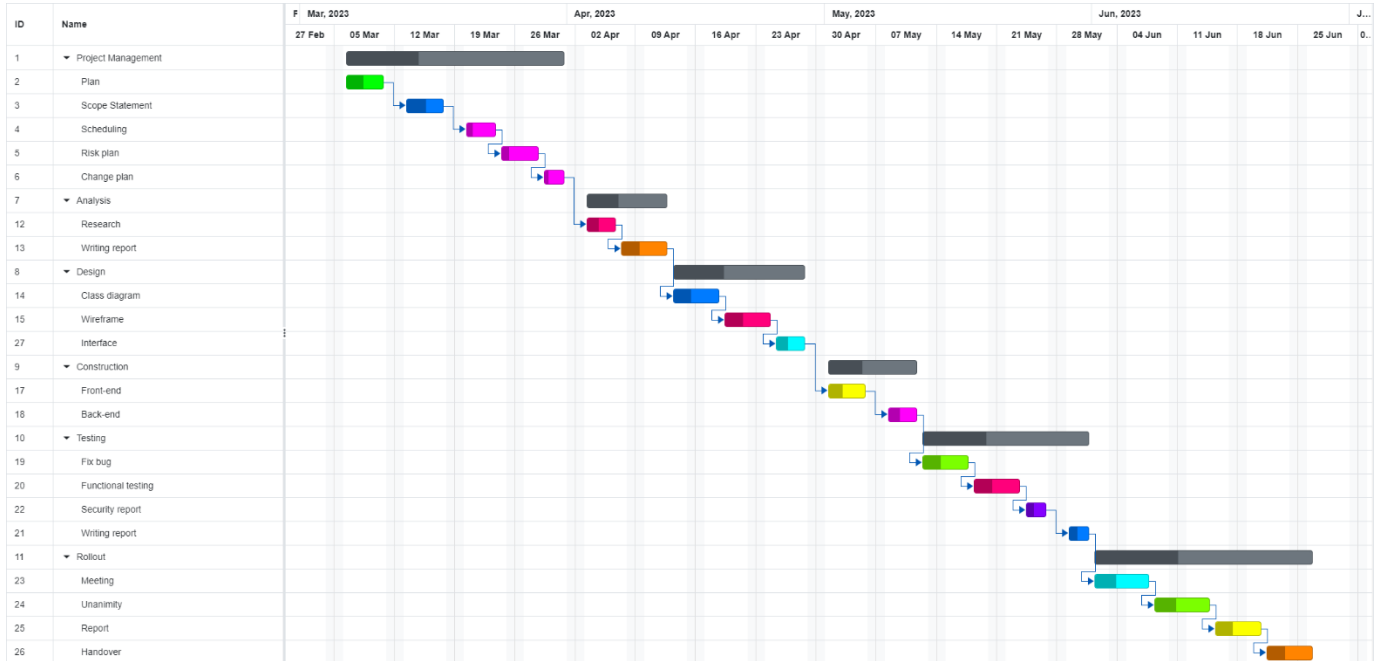
4. WBS
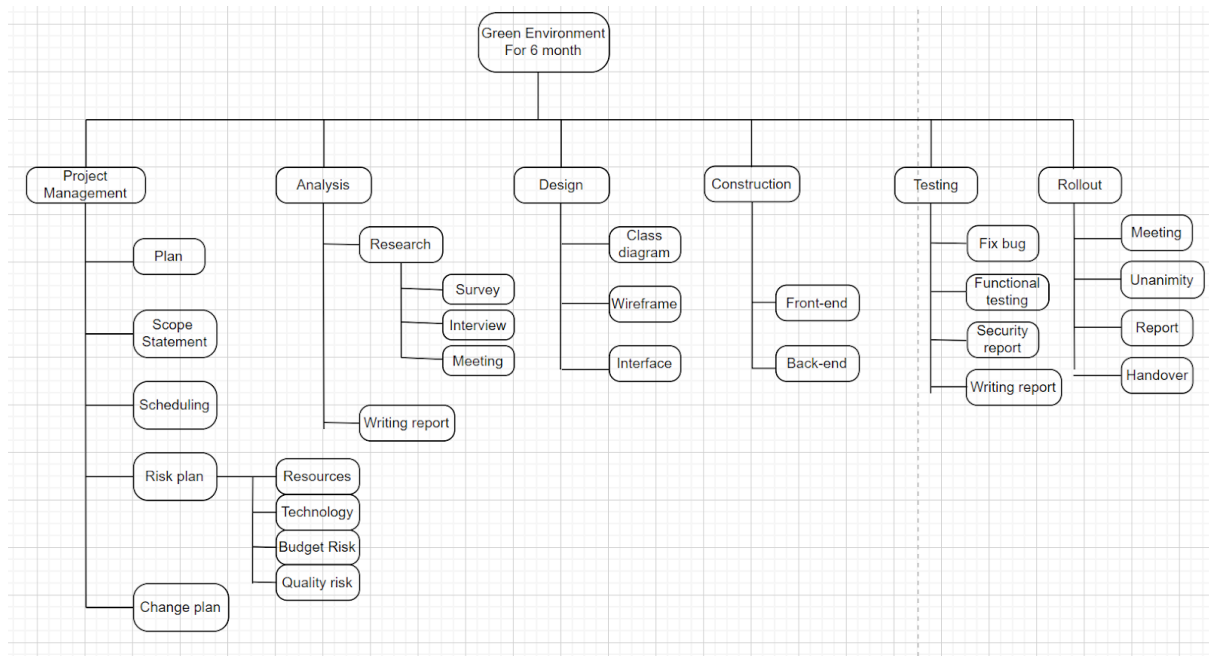
5. Human resources

Squad/Team/Human a resource	Role/Responsibility/Tasks	Quantity
Project manager	Managing team member. Control scope and risk, quality. Reporting status of project. Project costs. Equip the necessary skills to complete the project.	1
Designer	Meet with customers and communicate with them in order to understand their requirements and to assist them in communicating their ideas in the most understandable way possible. Based on the survey results, design the product, and create the project logo.	2
Coding	They are in charge of creating databases and writing code modules for computer-based software applications and programs. We will maintain the system on a regular basis to ensure that the programs work properly.	2
Marketing & Sale	Market survey and planning to bring the product to market. Create images and messages for the project so that it can communicate clearly, accurately, and attract everyone's attention.	2
Business Analyst	They assist management in analyzing project data and operations, identifying project-related problems, providing direction, and proposing appropriate project solutions.	1

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6. Budget

Type of cost	Project cost	Percentage of overall budget	Budget
	Testing	8%	$8000
	Design	5%	$5000
	Marketing	10%	$10000
	Employee	3%	$3000
	Coding	10%	$10000
	Risk	15%	$15000
	Application development	5%	$5000
	Total	$86000	

7. Risk plan

Risk description	Type	Likelihood	Impact	Solution/Mitigation Plan
Slow progress	Quality risk	High	Medium	Together discuss and give ideas to speed up the work progress.
People throw garbage indiscriminately, causing serious environmental pollution.	Resources	High	High	To classify waste according to regulations and recycle.
Website functions.	Technology	Medium	High	Regularly check and secure the system well to ensure stability before putting it on the market.
Slow machine, lag – the ITer is working hard but inefficiently.	Budget	Medium	High	Use machines with better processing systems or upgrade the RAM or the CPU.
An error occurred while reloading the web page.	Quality	Medium	Low	Check and statistics of errors encountered so that they can be handled in a timely manner.

Risk Description	Type	Likelihood (kha nang xay ra)	Impact (tac dong)	Solution/Mitigation Plan
People throw garbage indiscriminately, causing serious environmental pollution.	Resources	Very high	High	To classify waste according to regulations and recycle.
Together discuss and give ideas to speed up the work progress and slow progress.	Quality risk	High	Medium	Give common discipline, unite, discuss, and contribute ideas to accelerate work progress...
Hackers steal data or crash systems, causing data to be lost and unrecoverable.	Technology	High	High	Install a good firewall to protect your data, keep your passwords safe, and perform regular backups to keep your website safe from loss.
Slow machine, lag – the ITer is working hard but inefficiently.	Budget	medium	high	Use machines with better processing systems or upgrade the RAM or the CPU.
When a project is implemented, it is unavoidable that unexpected situations arise, such as: poor health, a tired working spirit, personal problems, and so on.	Resources	Medium	High	We must have a backup plan in place for unexpected events like this so that the project is not delayed for too long.

8. Project communication

Date	Method	Type	Description	Responsible Team Member
01/01/2023	Meeting	Project	Group establishment.	All
02/03/2023	Meeting	Project	Questions related to project selection.	Thiên
05/03/2023	Meeting	Project	Decide on the project's topic.	All & Leader
10/03/2023	Meeting	Project	Discuss the project subject that was agreed to by the group.	All
25/03/2023	Meeting	Project	Provision of Gmail addresses for Creation of Shared Google Drive folder.	All
26/03/2023	Meeting	Project	Project implementation.	All
26/03/2023	Meeting	Project	Select the relevant document for the project.	All
07/04/2023	Meeting	Project	Share project information within the established Google Drive.	All
07/04/2023	Meeting	Project	Update information regularly for project completion.	All

LH Team Meeting			
Minutes	01/03/2023	5:30 pm	G408
Meeting Called by	Team		
Attendees	Linh(GBH200662), Thiên(GCH200666), Quân(GCH241042), Nhi(GDH200158), Thảo(GBH200253), Tuấn(GCH273422), My(GBH167327)		
Absentees	-		
Minutes	Linh		
Agenda topics			
10 Min	Team formation		

Discussion	

Group establishment. Group members introduced themselves and exchanged mobile numbers.

Thien will be the one to establish a Zalo group to enable communication.

Early stage discussion of project selection.

Conclusions	

The team has many backgrounds in design, IT, management this will be reflected in the website we intend to create.

Action items	Person responsible	Deadline
Create a Zalo group to begin exchanging plans.	Thiên	01/03/2022
Read references and review subjects for research.	All	05/03/2023

LH Team Meeting

Minutes	01/03/2023	5:30 pm	G408
Meeting Called by	Team		
Attendees	Linh(GBH200662), Thiên(GCH200666), Quân(GCH241042), Nhi(GDH200158), Thảo(GBH200253)		
Absentees	Tuấn(GCH273422), My(GBH167327)		
Minutes	Linh		
Agenda topics			

10 Min	Briefing topic selection	
Discussion		

Select topics based on the summaries that people provide. Agree on and discuss the selected subject.
Nhi suggested that everyone provide a Gmail address so that might create a Google Drive folder for the group so that everyone pushes documents upwards.

Conclusions	

Thiên - Risk Recovery Planning
Nhi - Website Design
Thảo - Create database for website
Linh - Write code
Quân - Write source code CSS and HTML

Action items	**Person responsible**	**Deadline**
Thien will provide some common risks before embarking on the project.	Thiên	05/03/2023
Nhi will plan the interface design for the website.	Nhi	06/03/2023
Linh and Quan discuss the code and arrange it properly.	Linh & Quan	10/03/2023

LH Team Meeting			
Minutes	25/3/2023	6:30pm – 7:30pm	G410
Meeting Called by	Team		
Attendees	Linh(GBH200662), Thiên(GCH200666), Thảo(GBH200253), Tuấn(GCH273422), My(GBH167327), Quân(GCH241042), Nhi(GDH200158)		

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Absentees	-
Minutes	Thiên

Agenda topics		
60 MIN	Project Review	

Discussion	

This meeting will focus on the project so that it is completed on time, and all team members agree to finish the draft by 11pm this evening, 05/06/2023, and then close the project's final draft by 08/08/2023.

1. Group Participation
   Thien completed a recording of her interview and contributed to the team's manuscript. Thien also took on the task of completing the minutes of this meeting. Team members have confirmed Thien's contributions in meetings and also hope he will continue to provide information to complete the project soon. Ling also told the group members that if anyone needs help, feel free to ask.
2. Risk Management Plan
   Linh stated that she had created a risk management plan for team members to read and comprehend the issue. The plan was approved by the team members, and Linh will expand and review the risk plan's implementation throughout the project.
3. Next Meeting
   Nhi booked meeting room number 8 on the 4th floor of Smart City apartment for team members to complete the final report on March 26, 2023, from 3-5 pm.

Conclusions	

The team has completed the assigned work and will try to implement the project as soon as possible.

Action items	Person responsible	Deadline
First draft of final report sections	Thiên	27/03/2023

III. Qualitative and quantitative research
   1. Hypotheses
      - By providing an easy-to-use platform for recycling plastic waste, more people will be motivated to participate in recycling efforts, leading to a reduction in plastic pollution.

- Through partnerships with other organizations and companies, "Green Environment" can expand its reach and impact, raising awareness about plastic waste and promoting sustainable behavior.
- By reinvesting 100% of profits into society, "Green Environment" will gain the trust and support of customers who prioritize social and environmental responsibility.
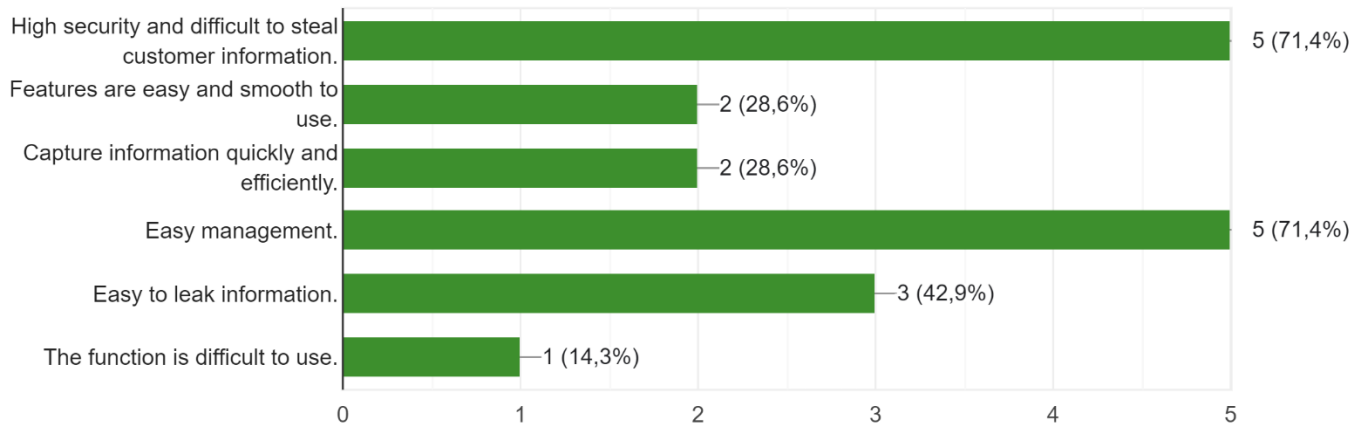
2. Interview
   - How do you believe that the "Green Environment" platform will motivate more people to recycle?
     What steps have you taken to ensure that the platform is easy to use for all users?
   - How will partnerships with other organizations and companies enhance the impact of the "Green Environment" platform?
     What criteria will you use to select potential partners?
   - What inspired you to reinvest 100% of profits from the "Green Environment" platform back into society?
     How do you believe this will impact customer trust and support for the platform?

3. Survey

1. How do you feel about using our website?
7 câu trả lời

High security and difficult to steal customer information.	5 (71,4%)
Features are easy and smooth to use.	2 (28,6%)
Capture information quickly and efficiently.	2 (28,6%)
Easy management.	5 (71,4%)
Easy to leak information.	3 (42,9%)
The function is difficult to use.	1 (14,3%)

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2. In your opinion, where do the main problems of environmental pollution come from?

7 câu trả lời

people's awareness

people

Environmental pollution mainly comes from human consciousness, the development of many factories and enterprises without proper waste treatment measures, the maximum overexploitation of environmental resources, etc. .

Environmental pollution mainly comes from human consciousness.

Environmental pollution mainly comes from the development of many factories and enterprises

Human activities, due to natural factors, people's awareness.

Pollution is also caused by a number of other natural activities that have negative impacts on the environment.

3. What criteria will you use to select potential partners?
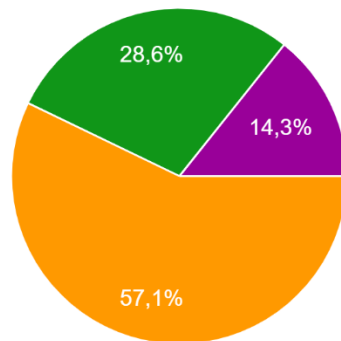
7 câu trả lời

- It is necessary to anticipate possible risks before cooperating with a certain partner.
- Review your partner's business.
- The partner needs to be a trustworthy business that complies with the law and business ethics.
- The partner's vision and strategy need to be consistent with and in line with t…
- All the idea.

28,6%
14,3%
57,1%

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4. Do you think the " Green Environment " system will solve anything?

7 câu trả lời

yes

In the future, I belive that the system will help people protected environment. and i if we apply the technology in protect environment, it that so good, it is idea smart

The "green environment" system will solve the problem of plastic waste and reduce environmental pollution.

Reduce environmental pollution.

No, I'm not really sure with this project of yours, I don't feel it's helpful.

No

5. Do you agree with the method we mentioned on the website?

7 câu trả lời
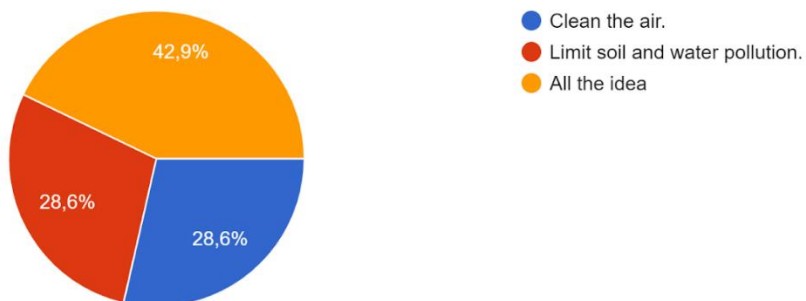
yes

Yes

Yes, I do

yes, i agree

No, I find this method not suitable, need further modification.
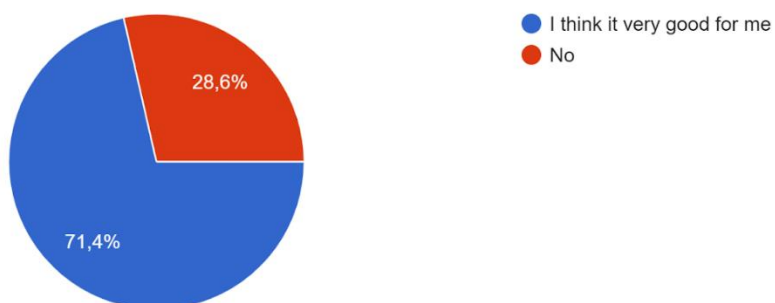
No, you come up with a better solution.

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6. Do you believe our project will have a positive impact on the environment?

7 câu trả lời

- Clean the air.
- Limit soil and water pollution.
- All the idea

42,9%

28,6%

28,6%

7. Do you think we should change or add any functions?

7 câu trả lời

- I think it very good for me
- No

28,6%

71,4%

8. Do you find our app to be simple to use?

7 câu trả lời

- Yes
- No

28,6%

71,4%

Bùi Hương Linh_GBH200662
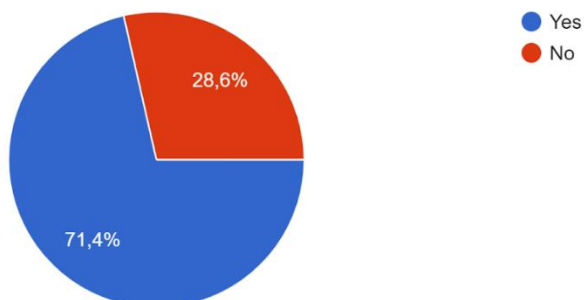
9. In your opinion, what needs to be done to protect the environment?

7 câu trả lời

I think recycling is a smart and cost-effective way to dispose of waste.

People must stop burning forests. There should always be ateam of well% trained fire fighters getting ready to start their work at any time to save the forests

No littering. Garbage must be collected and dumped in the right place.

Use hygienic toilets. Do not defecate indiscriminately.
Planting trees contributes to reducing environmental pollution and creating landscapes.

Do not pour wastewater into the street, street or public places. Each family must collect wastewater into a septic tank system, a cellar or put it into a public sewer system.

Plant many green trees.
Use natural materials.
Use clean energy.
Save electricity.
Reduce the use of plastic bags.

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10. In your opinion, is environmental pollution affecting the lives around you?Why

7 câu trả lời

yes, I think environmental pollution is very harmful to health, ... and if it continues like that, it's a red flag.

Yes. Plastic waste interferes with plant growth, harms animals, and affects the food supply chain for humans.

Have. The burning of plastic waste also produces toxic substances (dioxins, furans...) that pollute the air and cause gas poisoning in humans and even other bad phenomena such as cancer. cancer and other dangerous diseases for humans and animals.

Have. Waste is rampant, causing unsightly beauty, affecting the regional economy, especially in the areas of tourism or fishing.

Have. Garbage floating on water surfaces causes water pollution, causing aquatic animals to be caught (plastic bags, plastic rings, bottles ...) and die from asphyxiation...

Yes. It threatens human health, pollutes water sources, unbalances ecosystems and affects the development of animals, plants and organisms.

4. Findings of research

The study sought to determine whether a website that collects and recycles plastic waste can help reduce waste generation, as well as whether collecting and mobilizing people to reduce waste through the website is truly effective. A survey panel was used to conduct the research:

According to survey results, a website that collects and recycles plastic waste will significantly reduce plastic waste. According to a new OECD report (Oecd, 2022), the world is producing twice as much plastic waste as two decades ago, with the bulk of it ending up in landfill, incinerated or leaking into the environment, and only 9% successfully recycled. Almost half of all plastic waste is generated in OECD countries, according to the Outlook. Plastic waste generated annually per person varies from 221 kg in the United States and 114 kg in European OECD countries to 69 kg, on average, for Japan and Korea. Most plastic pollution comes from inadequate collection and disposal of larger plastic debris known as microplastics, but leakage of microplastics (synthetic polymers smaller than 5 mm in diameter) from things like industrial plastic pellets, synthetic textiles, road markings and type wear are also a serious concern. (Yi Zhang, 2022)Most of the respondents said that the pollution problem comes from humans. There are also some other problem.

2. In your opinion, where do the main problems of environmental pollution come from?
7 câu trả lời

people's awareness

people

Environmental pollution mainly comes from human consciousness, the development of many factories and enterprises without proper waste treatment measures, the maximum overexploitation of environmental resources, etc. .

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Human activities, due to natural factors, people's awareness.

Pollution is also caused by a number of other natural activities that have negative impacts on the environment.

Moreover, finding potential partners is also a very important issue. According to, Leading multinationals and conglomerates earn a good brand image through waste-management strategies. For instance, a few big companies are ranked as top environment-protecting companies. The company has delivered remarkable achievements in protecting the environment and fostering a sustainable carbon emissions footprint by reducing CO2 emissions per employee. The company prioritizes reuse and recycling. (Muhammad Farooq, 2022) When cooperating with a certain company, reliability will be a top priority. according to the LegalNature website, A good business partner must be someone whom you can trust. Everyone has their own quirks and individual ways to deal with stress, success, and failure, but if you can inherently trust your business partner, you will have a better chance of succeeding as partners. (LegalNature logo, 2023)

3. What criteria will you use to select potential partners?
7 câu trả lời
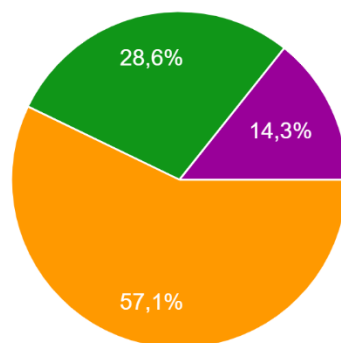
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- The partner's vision and strategy need to be consistent with and in line with t…
- All the idea.

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In conclusion, those findings support the notion that a plastic waste collection and recycling website can reduce the amount of plastic waste thrown outside, as well as collection and advocacy via the website to help people separate waste and learn more about environmental protection. The study also provides evidence that plastic waste can be effectively managed if people are more conscientious. Based on these studies, we can conclude that the plastic waste recycling website is a profitable and useful tool for promoting human environmental protection.

IV.   Conclusion

Overall, the development of a plastic waste recycling system is an important step towards protecting the environment. In this report, the scope, project objectives, WBS, budget, risk plan, etc. have been detailed. Furthermore, there were discussions about the project. This project will bring people a cleaner air, reduce waste and protect the environment.

References

LegalNature logo, 2023. *Qualities to Look for When Choosing a Business Partner.* [Online]
Available at: https://www.legalnature.com/guides/qualities-to-look-for-when-choosing-a-business-partner

Muhammad Farooq, J. C. U. K. A. S. K. a. H. A. B., 2022. *Sustainable Waste Management Companies with Innovative Smart Solutions: A Systematic Review and Conceptual Model.* [Online]
Available at: https://www.mdpi.com/2071-1050/14/20/13146?type=check_update&version=2

Oecd, 2022. *Plastic pollution is growing relentlessly as waste management and recycling fall short, says OECD.* [Online]
Available at: https://www.oecd.org/newsroom/plastic-pollution-is-growing-relentlessly-as-waste-management-and-recycling-fall-short.htm

Yi Zhang, Q. L. Y. Z. B. Y., 2022. *Integrated optimization of cutting parameters and scheduling for reducing carbon emissions.* [Online]
Available at: https://www.sciencedirect.com/science/article/abs/pii/S0959652617300616?via%3Dihub

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