**Project Information**

**Waste management system**

Document Version 1.0

Prepared by Turzo Roy

ID:19-40403-1

American International University Bangladesh.

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**Problem Statement:**

Waste is a significant global issue. Increasing volumes of waste are being generated as the global population and living standards rise. Waste is generally defined as disposed or unwanted materials or by-products. Current waste generation in Bangladesh is around 22.4 million tones per year or 150 kg/cap/year. There is an increasing rate of waste generation in Bangladesh and it is projected to reach 47, 064 tones per day by 2025. The rate of waste generation is expected to increase to 220 kg/cap/year in 2025. So now is the right time to think about waste and how it can manage and turn it into useful products. From the above discussion, We can say that the problem of waste management system is important to consider.

**Background Information:**

The Waste management System is a way to recycle daily waste to our highest benefits, ensuring a healthy environment and a friendly eco-system. Through this system the public has to first login which requires verification. The objective is to buy and sell waste (inorganic or organic ) which can be used to produce eco friendly products. By logging in, pubic can sell waste and buy eco friendly products and can check the product details and buyer can buy waste and sell eco friendly products which are recycled from waste. If the desired product is available public and buyer can buy products through preferred multiple transaction policy like Bkash , cash on delivery, credit or debit. Buyer delivers the cart to the precise location or collects waste and receives the money if cash on delivery. Also, people can review and write social awareness blog. This presentation is about the analysis of waste management system. Diagram’s purpose is to present system clearly and completely as possible.

**Justifications:**

* Current waste management system is very poor quality.
* Water pollution is happening for not placing the waste properly.
* People can earn money selling their waste too.
* The system will encourage people to keep the city clean.
* They can write blog about social awareness in the system.

**Goal:**

Build an application to manage waste properly.

**Objectives:**

1. Build an easy to use web application for managing daily wastes and making people aware.
2. Build a web portal usable from devices of all sizes
3. Build a web portal that will increase social awareness.
4. Build a web portal to reduce pollution from society.
5. Build a web portal to gather waste plastic materials from the peoples easily.

**Scope:**

**\*\*\***if any scope changes are required by the client at a later date, then the scope, the time and budget may also change.

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| --- | --- |
| **In Scope** | **Out of Scope** |
| Design and development of web portal for waste management system | Hosting server provision/management |
| Testing of system | Database server provision/management |
| Secure and manageable code | Security for application hosting and/or database server |
| Deployment | Network security |
| Inline Help file generation | Data entry |

**Deliverables:**

The complete web application along with all its database schemas

Help files

**Risks:**

Government policy may change requiring changes in the project or abandonment of the project.

**Plan of work:**

A structured project management approach is being followed.

***Note:*** The time allotted here is subject to change based on client availability to give details to project team

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| --- | --- | --- | --- | --- |
| **#** | **Phases** | **Details** | **Duration** | **Cost** |
| **1** | **Initial works** | Define the project in detail based on targeted business case. Stakeholders need to be identified, information should be collected to understand feasibility and business values. | 1 weeks | 20,000 |
| **2** | **Planning phase** | Clearly define specific and attainable goals. We will set a timeline, decide on project milestones and determine project deliverables in this phase. Works will be done in collaboration of all team members. Project will be broken down into smaller parts in this phase for better handling. | 1 weeks | 20,000 |
| **3** | **Execution phase** | Project development team will be created and works will be handed down to appropriate resources. Project progress will be monitored based on the schedule created in the previous phase. Design, development and testing of the product will be done by the development team. | 10 weeks | 1,00,000 |
| **4** | **Closing things up** | Look back at things and determine success level of the project. | 1 week | 10,000 |
|  | | | **13 weeks** | **1,50,000** |

**Product development work breakdown (7 weeks):**

Traditional waterfall method is used for this breakdown

***Note:*** The time allotted here is subject to change based on client availability to give details/guidance to the implementation team

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| **#** | **Phases** | **Details** | **Duration** |
| 1 | Understand requirements | Requirements will be collected and documented in use case format. | 1/2 weeks |
| 2 | Architecture and design | Architecture of the product will be determined. Detailed design will be created to start the actual development. Technology platform will be decided. Design for data storage (database design) will be created. We will also create an initial test plan and test cases in this phase. | 1/2 weeks |
| 3 | Coding/Implementation phase | Implementation of the use cases will be done based on established practices and standards. Unit testing may be enforced for cleaner code. | 5 weeks |
| 4 | Testing | Testing will be done based on test plan and test cases. User acceptance testing will be done in closed groups. Bug fixes and regression testing will be done here. | 1/2 weeks |
| 5 | Deployment | Deploy the system and make it live for general users. | 2/3 week |
| **Total Time** | | | **7 weeks** |

**Signatories**