**Introduction**

**Project name:** Food for good.

**Project sponsor:** ministry of health – تساهيل

**Manager:** Doctor Ibrahim - Engineer Alaa

**Purpose:** Save wasted food.

**Defining the problem**

* We found that there is a huge amount of food is wasted every day.
* the world waste of food annually **1,000,000,000** tons.
* Increasing the number of unemployed.

**Executive summary**

* In our project we will create application to link between restaurant, organic fertilizers factory, and trucks.
* Our main aim is to save food by taking the rest of restaurant food and transport it to organic fertilizer. So that these factories will convert the wasted food to organic fertilizer.
* we will earn money from this operation.

**Deliverables**

* Analysis: it contains 1-system requirements 2-process requirement
* Development: in this step we will do the coding and design the app.
* Testing /Training: in this step we will do Mock testing for the cod and finish the user training.
* Documentation: we will make a review about all the projects.
* Publishing: in this step the application is uploaded for users.

**Objectives**

* Decrease the amount of wasted food globally.
* Decrease the ratio of unemployment and offers new jobs.
* Increase the proportion of fertilizer industry.

**Milestones**

* For the three weeks we will define the system requirements and process requirements.
* For the next three weeks we will develop the application like coding and designing
* By the end of the first month, we will test the application.
* By the end of the second month our application will be trained.
* After three months finalize the review of application and the acceptance.
* By the end of third month our application will be published.

**Technical requirements**

* Application will be written in java.
* We will use android.

**Limits**

* Data will be collected by the client.
* Limited number of restaurants.

**WBS**

Food for good

The application is uploaded for use

Review all project

End user training

Mock testing

Design

Coding

Process Requirements

System Requirements

**Publish**

**Documentation**

**Testing / Training**

**Development**

**Analysis**

**Responsibility matrix**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Team members  List of tasks | Fady | Ibrahim | Demiana | Mariam |
| System requirements | R | C | A | I |
| Process requirements | C | A | I | R |
| Coding | A | I | R | C |
| Design | I | R | C | A |
| Test | R | C | A | I |
| Training | C | A | I | R |
| Documentation | A | I | R | C |
| Publish | I | R | C | A |

**Gantt chart**

PU

TE

SY

|  |
| --- |
| 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 ……. |

DE

DO

TR

CO

PR

**Resources**

|  |  |  |
| --- | --- | --- |
| 0 | SY | 2 |
| 0 | 1P | 0 |
| 0 | 2 | 2 |

|  |  |  |
| --- | --- | --- |
| 2 | CO | 5 |
| 0 | 2P | 0 |
| 2 | 3 | 5 |

|  |  |  |
| --- | --- | --- |
| 5 | TE | 8 |
| 0 | 1P | 0 |
| 5 | 3 | 8 |

|  |  |  |
| --- | --- | --- |
| 8 | TR | 10 |
| 0 | 1P | 0 |
| 8 | 2 | 10 |

|  |  |  |
| --- | --- | --- |
| 10 | DO | 12 |
| 0 | 2P | 0 |
| 10 | 2 | 12 |

|  |  |  |
| --- | --- | --- |
| 12 | PU | 14 |
| 0 | 1P | 0 |
| 12 | 2 | 14 |

|  |  |  |
| --- | --- | --- |
| 0 | PR | 3 |
| 0 | 1P | 0 |
| 0 | 3 | 3 |

|  |  |  |
| --- | --- | --- |
| 3 | DE | 5 |
| 0 | 2P | 0 |
| 3 | 2 | 5 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Res | Dur | Es | Lf | Sl | w1 | w2 | w3 | w4 | w5 | w6 | w7 | w8 | w9 | w10 | w11 | w12 | w13 | w14 |
| System requirements | 1 | 2 | 0 | 2 | 0 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| Process requirements | 1 | 3 | 0 | 3 | 0 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |
| Coding | 2 | 3 | 2 | 5 | 0 |  |  | 2 | 2 | 2 |  |  |  |  |  |  |  |  |  |
| Designing | 2 | 2 | 3 | 5 | 0 |  |  |  | 2 | 2 |  |  |  |  |  |  |  |  |  |
| Testing | 1 | 3 | 5 | 8 | 0 |  |  |  |  |  | 1 | 1 | 1 |  |  |  |  |  |  |
| Training | 1 | 2 | 8 | 10 | 0 |  |  |  |  |  |  |  |  | 1 | 1 |  |  |  |  |
| Documentation | 2 | 2 | 10 | 12 | 0 |  |  |  |  |  |  |  |  |  |  | 2 | 2 |  |  |
| Publishing | 1 | 2 | 12 | 14 | 0 |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 1 |
| Total resource load | | | | | | 2 | 2 | 3 | 4 | 4 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 |
| Resources available | | | | | | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ID | Dur | Task | Budget | W1 | W2 | W3 | W4 | W5 | W6 | W7 | W8 | W9 | W10 | W11 | W12 | W13 | W14 |
| 1 | 2 | System requirement | 300 | 150 | 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 3 | Process requirement | 300 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | 3 | Coding | 300 | 0 | 0 | 100 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | 2 | Design | 200 | 0 | 0 | 0 | 100 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 | 3 | Testing | 350 | 0 | 0 | 0 | 0 | 0 | 150 | 150 | 150 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | 2 | Training | 400 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 200 | 200 | 0 | 0 | 0 | 0 |
| 7 | 2 | Documentation | 150 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 50 | 0 | 0 |
| 8 | 2 | Publish | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 5 |
| Week total | | | 2025 | 250 | 250 | 200 | 200 | 200 | 150 | 150 | 150 | 200 | 200 | 100 | 50 | 20 | 5 |
| Comitative | | | | 250 | 500 | 700 | 900 | 1100 | 1250 | 1300 | 1450 | 1650 | 1850 | 1950 | 2000 | 2020 | 2025 |

**Time phase budget**

**Risks**

* The decrease in the number of restaurants due to the Corona pandemic may lead to a shortage of large quantities of food sent to factories.

**Effect:** Threatening the relationship between factories and application, they may cancel the agreement between us as well as reduce the amount of fertilizer.

**Solution:** The solution is to support the application with one-click locator for ease of use and to make the application used by all people, not just restaurants, and by identifying places where we can collect food and send it to factories.

* Technical Problem: Like any malfunction in the laptop, we are working on.

**Effect:** It will lead to delaying the project and therefore we will need to add the period needed to repair the laptop and its cost to the project.

**Solution:** We need an engineer to fix the problem.

**Team members:**

[1] Mariam Ashraf Shaker

[2] Demiana Amgad Farag

[3] Fady Salama Fayez

[4] Ibrahim Samir Ibrahim