**Online Animal Care**

**Group – 3**

**Timeline Charts**

|  |  |  |  |  |  |  |  |  |  |
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| **Weeks**  **Task : Person** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** |
| A : Anik |  |  |  |  |  |  |  |  |  |
| B : Nafiz |  |  |  |  |  |  |  |  |  |
| C : Raiyan, Sharna |  |  |  |  |  |  |  |  |  |
| D : Anik, Nafiz |  |  |  |  |  |  |  |  |  |
| E : Nafiz, Raiyan |  |  |  |  |  |  |  |  |  |
| F: Anik, Sharna |  |  |  |  |  |  |  |  |  |
| G: Nafiz, Raiyan |  |  |  |  |  |  |  |  |  |

**Activity key:**

A: Requirement analysis E: Implementation/Integration phase

B: Designing/Modeling F: Operation/Maintenance

C: Coding/Development G: Documentation

D: Testing

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| **Work tasks** | **Week 1** | | | | | **Week 2** | | | | | **Week 3** | | | | | **Week 4** | | | | | **Week 5** | | | | |
| * + 1. Problem finding.   Identify needs and benefits.  Meet with stakeholders.  Set requirements.   * + 1. Use case diagram.   Activity diagram.  User story card design.  User interface design.  Class compartment design.   * + 1. User’s view develop.   Veterinarian’s view develop.  Shop’s view develop.  Rescue center’s view develop.  Connection building between all views. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

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| **Work tasks** | **Week 6** | | | | | **Week 7** | | | | | **Week 8** | | | | | **Week 9** | | | | |
| * + 1. System testing.   Recovery testing.  Security test.  Performance/quality test.   * + 1. Ensure functional requirements.   Ensure business requirements.   * + 1. Corrective maintenance.   Adaptive maintenance.  Perfective maintenance.  Preventive maintenance.   * + 1. User manual making.   Project documentation.  Requirement documentation.  Technical documentation. |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**Constructive Cost Model**

**Software project type:** Organic

**Coefficient<Effort Factor>**= 2.4

So, **P** = 1.05 and **T** = 0.38

**SLOC** = 10000 Lines

**Persons-months, PM** = Coefficient<Effort Factor> \* (SLOC/1000)^P

= 2.4 \* (10000/1000)^1.05

= 26.93

**Development time, DM** = 2.50 \* (PM)^T

= 2.50 \* (26.93)^0.38

= 8.74 = 9 months = 1584 Working hour

**Required number of people, ST** = PM/DM

= 26.93/9

= 2.99 = 3 people

**Budgeting**

**Developer salary of 9 months:**

Per developer salary per working hour = 700 Taka

Total developer salary = 700 \* 1584 = **11,08,800 Taka**

**Requirement analysis:**

Required time = 1 month = 22 working days = 176 working hour

Requirement analysis person’s per hour salary = 200 Taka

Total requirement analysis salary = 200 \* 176 = **35,200 Taka**

**Transportation cost:** **10,000 Taka** (Approximate)

**Hardware expense:** **1,00,000 Taka** (Approximate)

**Rent expenses:**

Room per month = 12,000 Taka

Total in 9 months = **1,08,000 Taka**

**Total utilities in 9 months:** **15,000 Taka** (Approximate)

**Maintenance (Till 3 months after delivery):**

Cost per hour = 1,200 Taka

Total estimated time needed for maintenance = 30 hours

Total estimated maintenance cost = 1,200 \* 30 = **36,000 Taka**

**Project manager’s salary of 9 months:**

Per month salary = 30,000 Taka

Total salary = 30,000 \* 9 = **2,70,000 Taka**

**Accountant’s salary of 9 months:**

Per month salary = 5,000 Taka

Total salary = 5,000 \* 9 = **45,000 Taka**

**Total expense:** 11,08,800 + 35,200 + 10,000 + 1,00,000 + 1,08,000 + 15,000 + 36,000

+ 2,70,000 + 45,000 = **17,28,000 Taka**

**Profit:**

25% of total expense = 17,28,000 \* 25% = **4,32,000 Taka**

**Total budget: 17,28,000 + 4,32,000 = 21,60,000 Taka**