

Project Title: Fake Medicine Detection System

SOFTWARE ENGINEERING

Course Teacher: Dr. Razib Hayat Khan

Section: K

Group: 10

Student Name	Student ID
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Timeline Charts

Task \ Weeks	1	2	3	4	5	6	7	8	9
A : Maruf									
B : Joy									
C : Leo									
D : Joy									
E : Maruf, Leo									
F : Leo, Joy									
G : Maruf, Joy									
H : Joy									

Activity key:

A: Requirement analysis

B: Designing/Modeling

C: Coding/Development

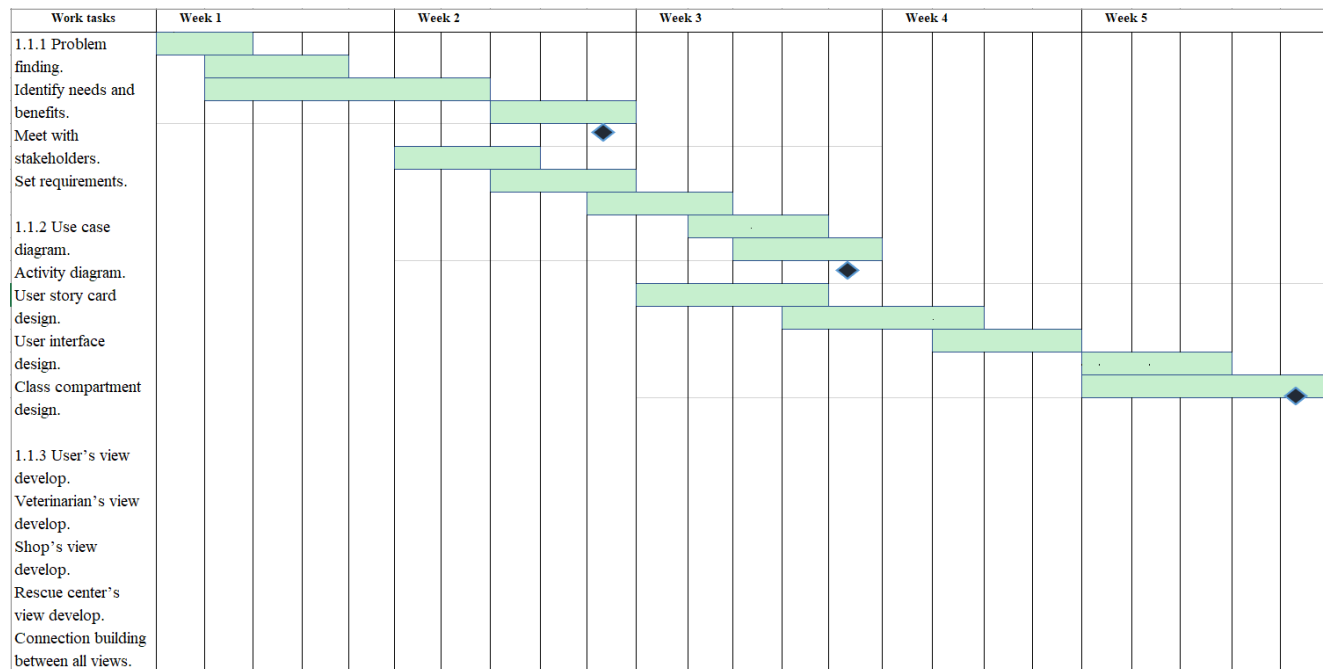
D: Research

E: Testing

F: Implementation/Integration phase

G: Operation/Maintenance

H: Documentation



Work tasks	Week 6				Week 7				Week 8				Week 9			
1.1.4 System testing.																
Recovery testing.																
Security test.																
Performance/quality test.																
1.1.5 Ensure functional requirements.																
Ensure business requirements.																
1.1.6 Corrective maintenance.																
Adaptive maintenance.																
Perfective maintenance.																
Preventive maintenance.																
1.1.7 User manual making.																
Project documentation.																
Requirement documentation.																

Constructive Cost Model (CoCoMo):

Project Type: Organic

Project Estimation :

Coefficient_{<Effort Factor>}: 2.4

SLOC: 10,000

P: 1.05.

T: 0.38.

Person Month, PM: $2.4 * (10,000 / 1,000)^{1.05}$

= 26.93

Development Time, DM: $2.50 * (PM)^T$

= $2.5 * (26.93)^{0.38}$

= 8.74 months

= 9 months

Total Working Days = 22×9

= 198 days

= 198×8 hour

= 1584 hour

Required Number of People, ST: PM/DM

= $26.93/9$

= 2.99

= 3

Budgeting:

Developer salary of 9 months:

Per developer salary per working hour = 500 Taka

Total developer salary = $500 \times 1584 = 7,92,000$ Taka

Requirement analysis:

Required time = 1 month

= 22 working days

= 22×8 working hour

= 176 working hour

Requirement analysis person's per hour salary = 250 Taka

Total requirement analysis salary = $250 \times 176 = 44,000$ Taka

Transportation cost: 54,000 Taka (Approximate)

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

Rent expenses:

Room per month = 15,000 Taka

Total in 9 months = $15,000 * 9 = 1,35,000$ Taka

Total utilities in 9 months: 45,000 Taka (Approximate)

Maintenance (Till 6 months after delivery):

Cost per hour = 1,000 Taka

Total estimated time needed for maintenance = 60 hours

Total estimated maintenance cost = $1,000 * 60 = 60,000$ Taka

Project manager's salary of 9 months:

Per month salary = 40,000 Taka

Total salary = $40,000 * 9 = 3,60,000$ Taka

Accountant's salary of 9 months:

Per month salary = 20,000 Taka

Total salary = $20,000 * 9 = 1,80,000$ Taka

Total expense: $7,92,000 + 44,000 + 54,000 + 1,00,000 + 1,35,000 + 45,000 + 60,000$
 $+ 3,60,000 + 1,80,000$
 $= 17,70,000$ Taka

Profit:

20% of total expense = $17,70,000 * 20\% = 3,54,000$ Taka

Total Budget: $17,70,000 + 3,54,000 = 21,24,000$ Taka