Project Management Plan/Charter

By: SyedaUmema Hani

PROJECT MANAGEMENT PLAN TEMPLATE

Date: 4/December/ 2021

Release #: 1st

Project Manager: SyedaUmema Hani

Approvals:

Project Manager	
StateOrganization Management	**User Management-HR**
DepartmentofFinance	***Other:***

Project Management Plan:
Hospital Management System (HMS)

1. Project Summary

Information in the project summary areas was started during the project concept phase and should be included here.

Project Name:	***Hospital Managementsystem***	***Start Date:***	***26/feb/2022***
State Organization::	***PAF KietUniversiy***	***Submitted by:***	***Group Leader***
Prime Contractor:	***University***	***Date Awarded:***	***17/April/2022***
Current Stage of Project:	***Development Life Cycle – RAD***		

Project is On Schedule:	***Yes:☝Yes No:☝*** ***Details: Yes Project is on schedule that shows all the tasks related to HMS includes Patient, doctors, doctorsetc***	***Project is within Budget:***	***Yes:☝ Yes No:☝*** ***Comments: Yes Project is within Budget. it has zero cost, which means it has no hardware once the libraries and tools are installed in the computer, it runs easily.***

Project Summary - Continued

Points of Contact (Stake holder)

This should be the list of individuals that will be involved with the project during the execution phase.

Position	Name/Organization	Phone	E-mail
Project Manager	**Dr. Umema Hani/ PAF KIET**		**Dr.umema@pafkiet,edu,pk**
Sponsor	**PAF KIET**		
Customers:			
Other Stakeholders:	**ZainUllah**	**0348-3334064**	**Sharifzain11@gmail.com**
	EzharKarim	**0347- 5164198**	**Ezharkarim19@gmail.com**
	Shahmeer Khan	**0305-2109723**	**Shahmeer66khan@gmail.com**
	Abdul Rauf	**0346-8200033**	**Abdulr76@gmail.com**

2. Project Charter

Business Problem.

All projects start with a business problem/issue to solve.

Conduction of business tasks manually, lack of efficiency, low performance time consuming activities.

Statement of Work (Goal).

The statement should be short and to the point. It should not contain language or terminology that might not be understood.

Thisproductaimstoreplacethecurrentmanualsystemwiththeautomatedsolution.Themainsystemwillcompriseof**6majorsub-systemsor Modules**theintegrationofthesessub-systemwillformthemainsystem.Allthesub-systemswillbetightlyintegratedsoastogiveunanimityto user.Thecurrentclientsetupdoesnothaveanyautomation.Therefore,everydepartmentandthesectionwillbedevelopedfromscratchasall departmentsarecurrentlyworkingmanually.Inthisdocumentwearecovering"Hospitalsystem**"**only.

1. **Module 1: Login**
2. **Module 2: Patientmanagement**
3. **Module 3: Doctors**
4. **Module 4:Appointments**
5. **Module 5: Doctor's Assistant**

2. Project Charter,continued

Project Objectives:

Provide a brief, concise list of what the project is to accomplish.

The software for General International is an ERP System, which enables automation of centralized system. This system will integrate all the departments of the company. The main divisions of the system are:

1. **Module 2: Patient (add, delete, search, update, show) withCRUDS**
2. **Module 3: Doctor (add, delete, search, update, show) withCRUDS**
3. **Module 4: Appointment (add, delete, search, update, show) withCRUDS**
4. **Module 5: Doctor schedule withCRUDS**
5. **Module**

Success Factors:

List factors that will be used to determine the success of the project.

1. Complete deployment of all 4modules
2. Smooth integration between allsystems
3. A TestedProduct

Project Dependencies/Constraints:

1. Project completion is expected in less than 3.5 monthsduration
2. All requirements will be 100% available during requirementphase
3. Maximum team strength4,
4. Average loading = 5,
5. E = 5

3. Project Tradeoff Matrix & Status Summary

Schedule/ Time	**Scope/ Modules**	**Resources/Effort/People**
CONSTRAINED	CONSTRAINED / **ACCEPTED**	CONSTRAINED / Need to be **IMPROVED** (need reduction) / ACCEPTED (COCOMO **Effort = 10 -15** not acceptable our constraint is max **5 members in 3.5 months**)
		E = 5, S = 3.5, per month 2 persons, 3 months 5 persons = E**st. 5 person**

Identify variable to be CONSTRAINED, IMPROVED, ACCEPTED

Comments:

Accepted

4. ***Project Organization***

Provide an organization chart that defines the person responsible for at least the following functions: project manager, development manager, quality assurance, and configuration management.

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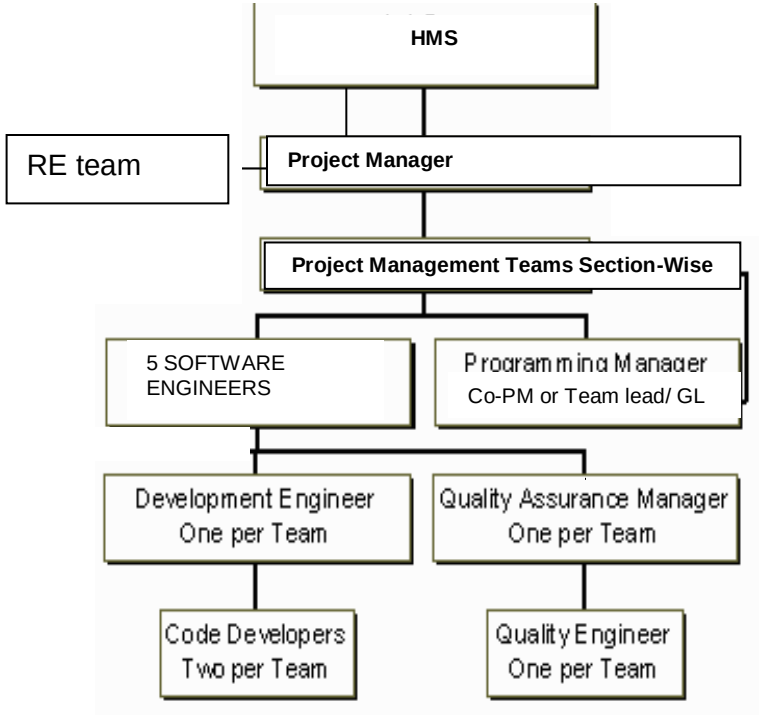
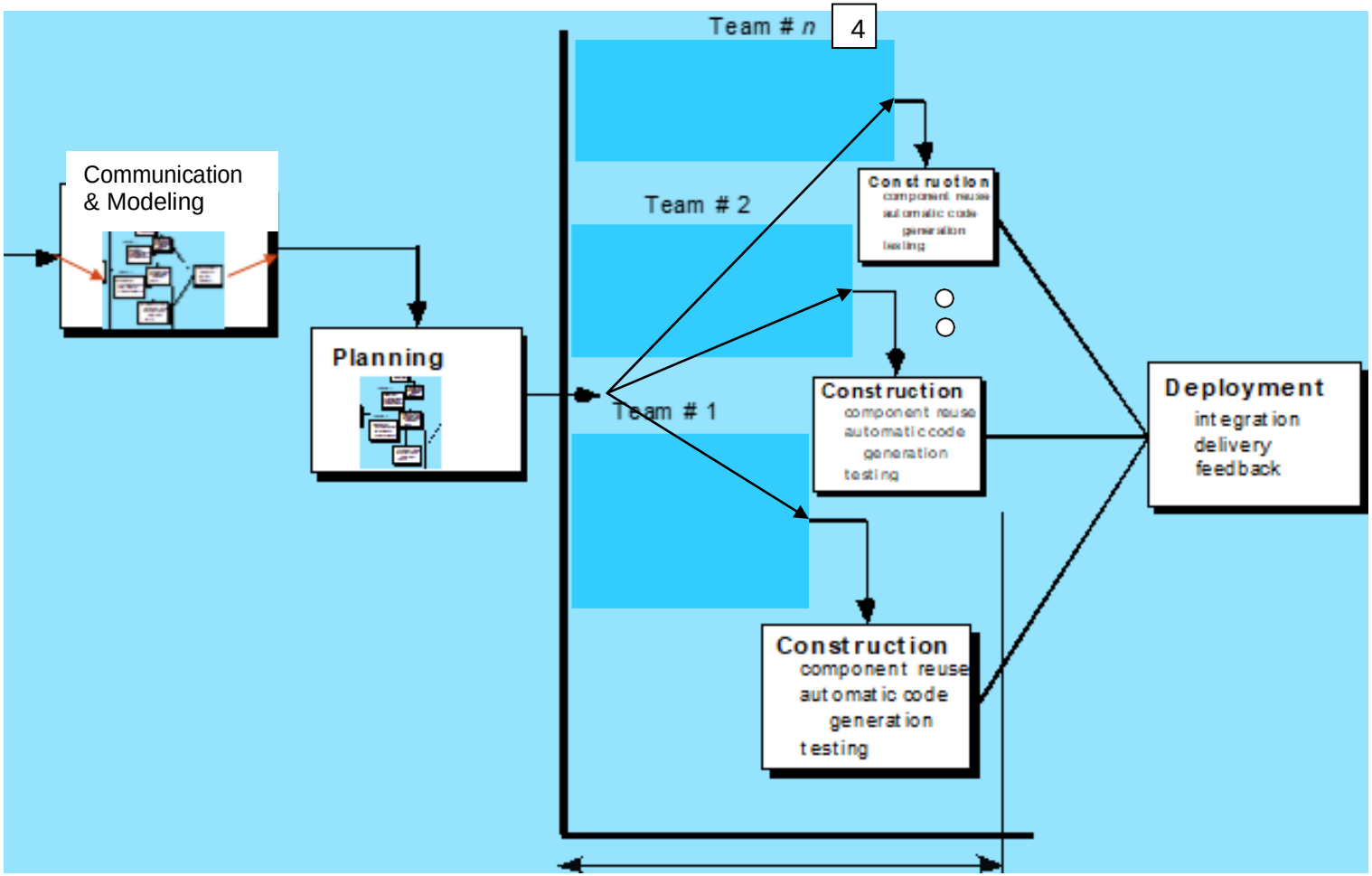


Project Management Plan:
Hospital Management System (HMS)

SDLC Process Model:



5. *Activity List (Work Breakdown Structure)*

Provide an activity list (work breakdown structure) that describes each task required by the project, with a reference to the statement of work. For large projects, work packages might be included that describe in detail how specific tasks will be completed by specific project teams. These work packages describe required schedule, identify requirements to be completed and describe specific work to be performed

1. **First Estimating FP then from it E and S. <Correctly Re calculate for yourProject>**

Software Size Estimation using Function Point Method

A) Detail of 5 Transaction Types, at most 5 under each category

	Write down exact Screen or Forms names, or Tables, or Reports name for each count value.
EI	1. Admin 2. Add patient info 3. Doctor info 4. Appointments 5. Receptionist
EO	1. Doctors 2. View patient 3. View appointments 4. View scheduled 5. Checkup
EQ	1. Receptionist 2. Check doctor 3. Check doctor 4. Set Appointments 5. Update appointments
ILF	1. Doctor Assist 2. View Patients 3. Doctor Prescription 4. Check Appointments 5. Check BP, etc..
ELF	1. 8 2. 0 3. 0 4. 0 5. 0

B) Unadjusted Function Point Value calculation

Definition of Complexities: Your Transactions which are derived from only from 1 Table are to be categorized as Low and if they are derive from 2 tables they can be categorized in Mid-level complexity, and in case of >= 3 they will be placed under High level of complexity.

	Count for screens of Low level complexity (C)	Multiplier Low level complexity (M)	V1 = C * M	Count for screens of Mid-level complexity (C)	Multiplier Mid-level complexity (M)	V2 = C * M	Count for screens of High-level complexity (C)	Multiplier High-level complexity (M)	V3 = C * M	Category wise sum V1+V2+V3
EI	3	3	9	1	4	4	1	6	0	13
EO	3	4	12	1	5	5	1	7	7	20
EQ	3	3	9	1	7	7	1	6	6	22
ILF	3	7	21	1	0	0	1	15	15	36
ELF	0	5	0	1	7	7	1	10	10	17
									Unadjusted Function Point Value =	**108**

C) Value Adjustment Factor (VAF) calculation					
Note: Calculate Value Adjustment Factor, where any 5 "General System Characteristics (GSC) must have a value above 2. Also show respect Quality Characteristic mapping of these 5 factors.					
	Quality Characteristic	Weight (0-5)		Quality Characteristic	Weight (0-5)
1.		1	8.		2
2.		2	9.		3
3.		3	10.		4
4.		2	11.		1
5.		1	12.		3
6.		1	13.		2
7.		4	14.		1
Value Adjustment Factor (VAF) = 30					

D) Technology Complexity Factor calculation

TCF = 0.65 + (VAF * 0.01)
= 0.65 +(30*0.01)
= 0.95

E) Adjusted Function Point Value (AFPV) or Function Point Value (FP) Calculation

AFPV = _ Unadjusted Function Point * TCF
= 108 * 0.95
= 102.6

F) Conversion of AFPV in to LOC Size metric

the number of LOCs per FP for **C# language 54** and check other languages from https://www.qsm.com/resources/function-point-languages-table, **c#.net 54**

Project Size in LOC = AFPV * LOC/FP

Project Size in LOC = 102.6* 54 = 5540.4 LOC.

G) Software Size: 5540.4

Software Size for COCOMO: 5.540 **KLOC**

Software Type: **Business**/ Utility/Embedded

Model Mode: COCOMO I – Basic – **ORGANIC (0 – 50 KLOC)** / Semi-detached/ Embedded

a) **Effort Estimation:** Equation 2.4 * 5.540^ 1.05 = **E = 14 persons month**
b) **Schedule Estimation:** Equation 2.5 * E ^ 0.38 months = **S = 7 months**
c) **Productivity Estimation:** Equation Loc/E = 5540.4/14=396
d) **Average Loading Estimation:** Equation E/S = 14/7=2
e) **Average Salary of Technical Staff (AS):** Equation Assume = 50,000 RS
f) **Cost for Salary (Cs):** Equation E * Avg salary = 700000
g) **Budgeted Cost of Project (Cb):** Equation Cs + Cs * X% = 700000+(700000*10%)=770000

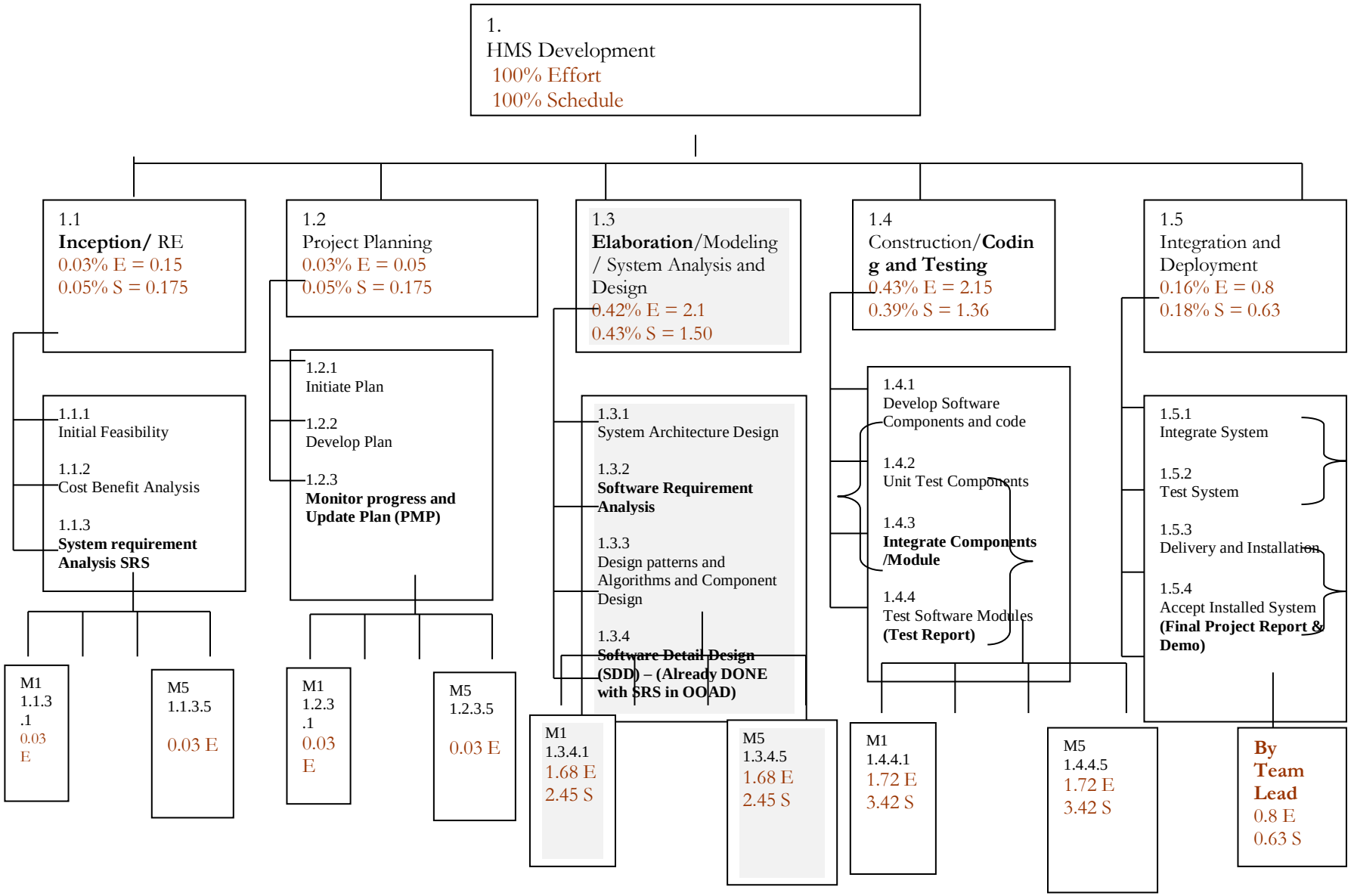
2. Calculate the phase-wise percentage distribution wise E and S values as given in detailed COCOMO detailed model.

H) Distribution of Effort and Schedule among Different phases of SDLC							
E = ____5_____ **S = _____3.5_____**							
Plan and Requirement (E | S)		**Modeling / System Design & Detailed Design (E | S)**		**Module Coding and Unit Testing (E | S)**		**Integration & Deployment (E | S)**	
0.06 * 5= 0.3	0.10 * 3.5 = 0.3	(0.16+0.26) * 5 = 2.1	(0.19+0.24) 3.5=1.5	0.42 * 5 = 2.1	0.39 * 3.5 = 1.3	0.16 * 5 = 0.8	0.18 * 3.5=0.63

Project Management Plan:

Hospital Management System (HMS)

2. **Now adding percentage distribution as given in detailed COCOMO model in the WBS phase-wise. <Write exact E/S values after multiplying with distribution percentages>**



Now convert above WBS contents in a Tabular format in order to make a GANTT CHART. <Complete>

22 days are taken from COCOMO detailed model's Schedule Distribution done in Class for Project Planning and Requirement Engineering Phase. Where 40% of 22 goes in RE and 60% in Planning.

Activity #	Activity Name	Activity Name Description	# of Days	Start Date	Dependency on previous tasks	Milestone
1.1	**RE**	**Requirement Engineering**	**8-9**	**26/02/2022**	**none**	**05/03/2022**
1.1.1	**Initial Feasibility**	Starting requirements	1	**27/2/2022**	**none**	**01/3/2022**
1.1.2	**Cost Benefit Analysis**	Determining the costs	1	**01/3/2022**	**none**	**02/3/2022**
1.1.3	**System requirement Analysis SRS**	**Understanding the business and module**	**1**	**02/3/2022**	**none**	**03/3/2022**
1.1.3.1	System requirement Analysis SRS **for Module 1**	**Understanding the business and module 1**	1	**03/3/2022**	**none**	**04/3/2022**
1.1.3.2	System requirement Analysis SRS **for Module 2**	**Understanding the business and module 2**	1	**04/3/2022**	**none**	**05/03/2022**
1.1.3.3	System requirement Analysis SRS **for Module 3**	**Understanding the business and module 3**	1	**05/03/2022**	**none**	**05/03/2022**
1.1.3.4	System requirement Analysis SRS **for Module 4**	**Understanding the business and module 4**	1	**05/03/2022**	**none**	**05/03/2022**
1.1.3.5	System requirement Analysis SRS **for Module 5**	**Understanding the business and module 5**	1	**05/03/2022**	**none**	**05/03/2022**
1.1.3.6	Merging of all parallel Modules 1,2,3,4,5	Combining all the modules	1	**05/03/2022**	**none**	**05/03/2022**

Project Management Plan:

HMS

1.1.4	Milestone (SRS) and Review meeting	Finalizing and meeting	0	**05/03/2022**	**none**	**05/03/2022**
1.2	**Project Planning**	**Project Management Planning**	**14 Days**	**06/03/2022**	**1.1**	**20/03/2022**
1.2.1	Planning for module 1	Planning the management for module 1	2	**8/3/2022**	**1.1**	**10/3/2022**
1.2.2	Planning for module 2	Planning the management for module 2	2	**10/3/2022**	**1.1**	**12/3/2022**
1.2.3	Planning for module 3	Planning the management for module 3	2	**12/3/2022**	**1.1**	**14/3/2022**
1.2.4	Planning for module 4	Planning the management for module 4	2	**14/3/2022**	**1.1**	**16/3/2022**
1.2.5	Planning for module 5	Planning the management for module 5	2	**16/3/2022**	**1.1**	**20/3/2022**
1.2.6	Merging the planning of all modules	Combining all the modules planning	4	**20/3/2022**	**1.1**	**20/3/2022**
1.3	**Modeling**	**Done in SRS now ERD with Implementation**	**14 Days**	**06/03/2022**	**1.1**	**20/03/2022**
1.3.1	Modeling and designing for module 1	Designing of GUI for module 1	2	**8/3/2022**	**1.1**	**10/3/2022**
1.3.2	Modeling and designing for module 2	Designing of GUI for module 2	2	**10/3/2022**	**1.1**	**12/3/2022**
1.3.3	Modeling and designing for module 3	Designing of GUI for module 3	2	**12/3/2022**	**1.1**	**14/3/2022**
1.3.4	Modeling and designing for module 4	Designing of GUI for module 4	2	**14/3/2022**	**1.1**	**16/3/2022**
1.3.5	Modeling and designing for module 5	Designing of GUI for module 5	2	**16/3/2022**	**1.1**	**20/3/2022**
1.3.6	Merging all the modeling of all the modules	Combining all the GUI in the software	4	**20/3/2022**	**1.1**	**20/3/2022**

Project Management Plan:

HMS

1.4	**Implementation and Testing**	**Database and Code, Test Report**	**24 Days**	**21/03/2022**	**1.1**	**15/04/2022**
1.4.1	Implementation for module 1	Coding for module 1	4	**21/3/2022**	**1.1**	**25/3/2022**
1.4.2	Implementation for module 2	Coding for module 2	4	**25/3/2022**	**1.1**	**29/3/2022**
1.4.3	Implementation for module 3	Coding for module 3	4	**29/3/2022**	**1.1**	**03/4/2022**
1.4.4	Implementation for module 4	Coding for module 4	4	**03/4/2022**	**1.1**	**07/4/2022**
1.4.5	Implementation for module 5	Coding for module 5	4	**07/4/2022**	**1.1**	**11/4/2022**
1.4.6	Testing, Finalizing and combining the implementation of all the modules	Combining all the code and files into one application	4	**11/4/2022**	**1.1**	**15/4/2022**
1.5	**Deployment/Demo**	**Demo and Report**	**1 Day**	**30/4/2022**	**1.1**	**01/5/2022**
1.5.1	Deployment of the project	Giving the final application to the customer	1	**01/5/2022**	**1.1**	**01/5/2022**

6. Work ProductIdentification

Provide a list of all deliverables required by the project, the date due and the person responsible for the deliverable. Pick Last activities from each phase they are deliverables. **<Complete>**

Deliverable Name	***Due Date***	***Date Delivered***	***Point of Contact***
SRS by ZainUllah	**03/3/2022**	**03/3/2022**	**63591**
SRS by EzharKarim	**04/3/2022**	**04/3/2022**	63604
SRS by Shahmeer Khan	**05/3/2022**	**05/3/2022**	64160
SRS by Abdul Rauf	**05/3/2022**	**05/3/2022**	63159
SRS by Member 5			
PMP by ZainUllah	**08/3/2022**	**08/3/2022**	**63591**
PMP by EzharKarim	**10/3/2022**	**10/3/2022**	63604
PMP by Shahmeer Khan	**12/3/2022**	**12/3/2022**	64160
PMP by Abdul Rauf	**14/3/2022**	**14/3/2022**	63159
PMP by Member 5			
Design (DB+GUI) by ZainUllah	**08/3/2022**	**08/3/2022**	**63591**
Design (DB+GUI) by EzharKarim	**10/3/2022**	**10/3/2022**	63604
Design (DB+GUI) by Member 1			
Design (DB+GUI) by Member 1			
Design (DB+GUI) by Member 1			

7. ***SCHEDULE***

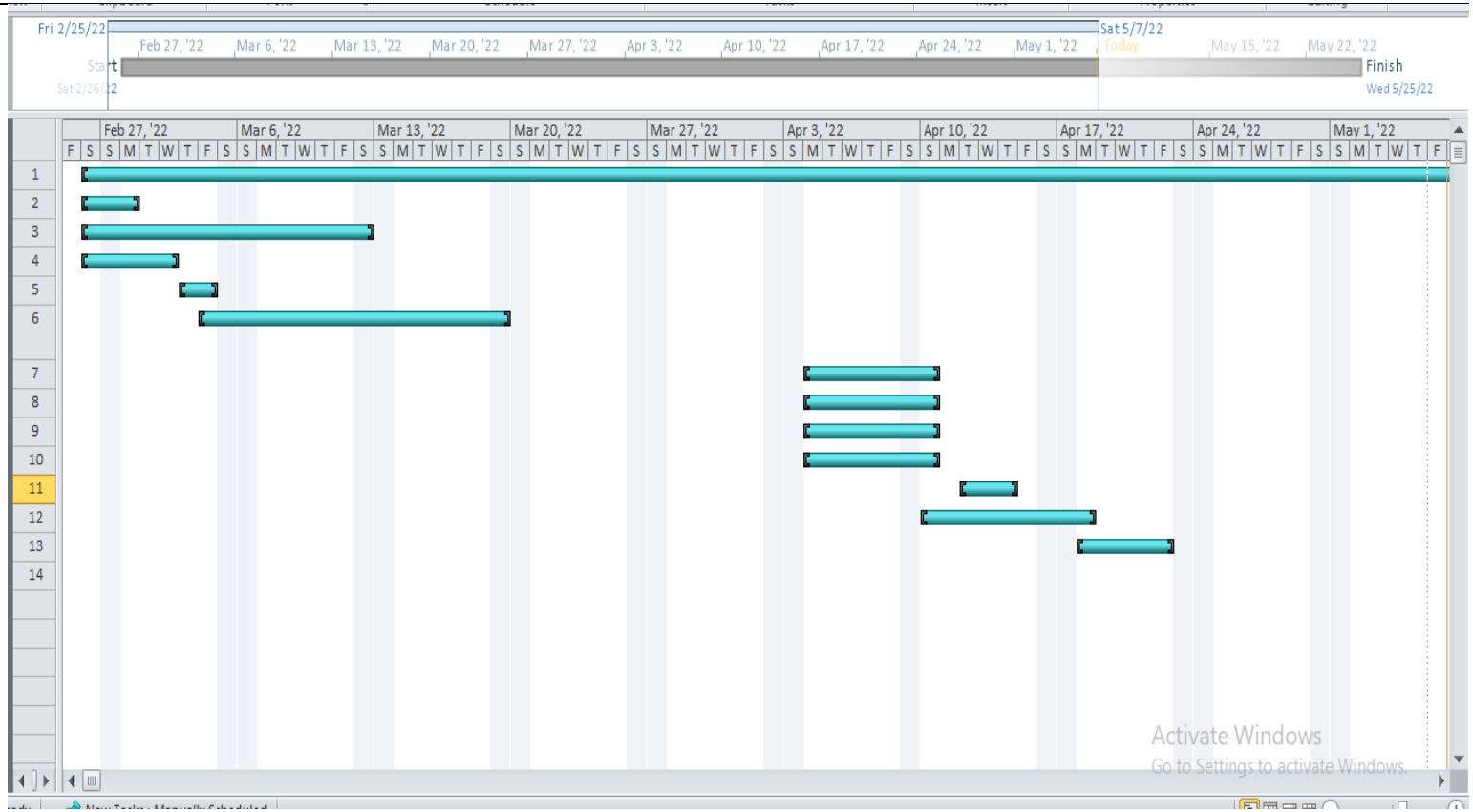
Provide the project schedule, using a **Gantt chart**. The schedule must include milestones, task dependencies (predecessors), task duration, **work product delivery** dates, quality milestones (reviews/**audits**/inspections), configuration management milestones, and action items (with deadlines and responsibilities). (in order to keep the project (T | C |S) in CONTROLL.

<MUST IMPLEMENT GANTT CHART ON ANY SOFTWARE OR WEBAPPLICATION>

	ID	Task Mode	Task Name	Duration	Start	Finish	Predec
1	1		Project time	65 days	Sat 2/26/22	Wed 5/25/22	
2	2		Requirements and planning	2 days	Sat 2/26/22	Mon 2/28/22	
3	3		Designing	12 days	Sat 2/26/22	Sat 3/12/22	
4	4		database designing	4 days	Sat 2/26/22	Wed 3/2/22	
5	5		Gui Designing	2 days	Thu 3/3/22	Fri 3/4/22	
6	6		implementation and milestons	12 days	Fri 3/4/22	Sat 3/19/22	
7	7		module 1 (63591)	6 days	Mon 4/4/22	Sun 4/10/22	
8	8		module 2 (63604)	6 days	Mon 4/4/22	Sun 4/10/22	
9	9		module 3	6 days	Mon 4/4/22	Sun 4/10/22	
10	10		module 4	6 days	Mon 4/4/22	Sun 4/10/22	
11	11		milestone	3 days	Tue 4/12/22	Thu 4/14/22	
12	12		testing	7 days	Sun 4/10/22	Mon 4/18/22	
13	13		deployment	5 days	Mon 4/18/22	Fri 4/22/22	
14	14						

Project Management Plan:

Hospital Management System (HMS)



Project Management Plan:

Hospital Management System (HMS)

<Add % completion in it after submission of PMP expected on 18/12/2021, and also paste screen capture of Tracking Gantt Chart view>

	Task Mode	Task Name	Duration	Start	Finish	% Complete	Re
1		Project time	65 days	Sat 2/26/22	Wed 5/25/22	100%	
2		Requirements and planning	2 days	Sat 2/26/22	Mon 2/28/22	100%	
3		Designing	12 days	Sat 2/26/22	Sat 3/12/22	100%	
4		database designing	4 days	Sat 2/26/22	Wed 3/2/22	100%	
5		Gui Designing	2 days	Thu 3/3/22	Fri 3/4/22	100%	
6		implementation and milestons	12 days	Fri 3/4/22	Sat 3/19/22	100%	
7		module 1 (63591)	6 days	Mon 4/4/22	Sun 4/10/22	100%	
8		module 2 (63604)	6 days	Mon 4/4/22	Sun 4/10/22	100%	
9		module 3	6 days	Mon 4/4/22	Sun 4/10/22	100%	
10		module 4	6 days	Mon 4/4/22	Sun 4/10/22	100%	
11		milestone	3 days	Tue 4/12/22	Thu 4/14/22	100%	
12		testing	7 days	Sun 4/10/22	Mon 4/18/22	40%	
13		deployment	5 days	Mon 4/18/22	Fri 4/22/22	35%	
14						0%	

Project Management Plan:

Hospital Management System (HMS)

8. Estimated Cost at Completion

Provide an estimated cost at completion, which is an assessment of the total effort at completion of the contract.

Analysis in Hours / Cost						
WBS No.	**Activity Description**	**Budget Hours** **B**	**ActualHours** **A**	**Est. to Complete the remaining work – milestone-wise** **ETC** **B -A** **EAC – A**	**Est. @ Completion** **EAC** **A + ETC**	**Variance (+ = More)** **V = (A-B/A)**
1st Milestone		**8 Working days** **60 Hours**	**40**	**60 – 40 = 20**	**40 + 20 = 60**	**(40 - 60)/ 40 = - 0.5** **Under the budget 20V**
2nd Milestone		**8 Working days** **8 x 7.5 = 60 Hours**	**50**	**60 – 50 = 10**	**50 + 10 = 60**	**(50-60)/ 50 = -0.2** **Under the budget 20V**

3rd Milestone		**12 working days** **12 x 7.5 = 90 hours**	**115**	**153 – 115 = 20**	**115 + 20 = 135**	**(115 – 135)/115 = -0.17** **Under the budget 17V**
4th Milestone		**20 workin g days** **20 x 7.5** **= 150 hours**	**140**	**150 – 140 = 10**	**140 + 10 = 150**	**(140 - 150)/140 = -0.07** **Under the budget 7V**
5th Milestone		**16 workin g days** **16 x 7.5 = 120 hours**	**100**	**120 – 100 = 20**	**100 + 20 = 120**	**(100 - 120)/100 = -0.2** **Under the budget 20V**

9. Resource Loading Profiles -Staffing

Provide a staffing plan that shows the number of personnel, by type, that will be required on the project on a monthly basis.

<table>
<tr><th colspan="8">Resource Loading Profiles</th></tr>
<tr><td colspan="8">E = 5
S=3.5

Avg Loading = 2 person per month
Since loading gives same value of effort for all months, therefore, we have used Detailed COCOMO’s Effort distribution as already done in part 5.2</td></tr>
<tr><td colspan="2">Plan and Requirement</td><td colspan="2">Modeling / System Design & Detailed Design</td><td colspan="2">Module Coding and Unit Testing</td><td colspan="2">Integration & Deployment</td></tr>
<tr><td>0.06 * E = 0.3</td><td>0.10 * S = 0.35</td><td>(0.16+0.26) *E = 2.1 approx.2</td><td>(0.19+0.24) S =1.5</td><td>0.42 * E = 2.1 approx. 2</td><td>0.39 * S = 1.365</td><td>0.16 * E = 0.8</td><td>0.18 * S = 0.63</td></tr>
<tr><td colspan="2">Designation: PM, ~~BA, DomainExpert~~ = 0.3 person</td><td colspan="2">BA, Analyst, Domain Expert=2</td><td colspan="2">Coders and Testers 2</td><td colspan="2">Senior Tester, TL 0.8</td></tr>
<tr><td colspan="2">Job Description: Assisting in building SPMP, SRS and prototype, as well as doing the necessary requirement and risk analysis for the project</td><td colspan="2">Job Description: A Domain Expert is an expert in the domain of Spice management.</td><td colspan="2">Job Description:
They are involved in performing automated and manual tests to ensure the software created by developers is fit for purpose. Some of the duties include analysis of software, and systems, mitigate risk and prevent software issues.</td><td colspan="2">Job Description:
Senior Tester will be responsible for quality process in a project. Tasks will include test case design, test planning, testing of systems developed by the company, test automation and reporting of testresults.</td></tr>
</table>

Contact information: email:zainyashkun11@gmail.com mobile:03483334064			
Contact information: email:ezharkarim19@gmail.com mobile:			

11. RiskIdentification

Provide a description of all risks identified for the project. A risk is anything that might detrimentally affect the successful completion of the project if left unaddressed. The contractual, management, and technical risks associated should be **identified** and **assessed** as to the **probability of the risk occurring**, the **cost to correct** if the risk occurs, the impact of the risk on the project, and the suggested mitigation activities and cost ofmitigation.

Risk Worksheet

Risk Management Steps:

1	Identify the project's top10 risk items
2	Present a plan for resolving each risk item
3	Update list of top risk items, plan, and results monthly
4	Highlight risk-item status in monthly project reviews. Compare with previous month's ranking status
5	Initiate appropriate corrective actions

Top 10 Risk Items	
Risk Items	**Risk Management Techniques**

Project Management Plan:

Hospital Management System (HMS)

Personnel Shortfalls	Staffing with top talent, job matching; team building; morale building; cross training; pre-scheduling key people
Unrealistic schedules and budgets	Detailed, multi-source cost and schedule estimation; design to cost; incremental development; software reuse; requirement scrubbing
Developing the wrong software functions	Organizational analysis; mission analysis; ops-concept formulation; user surveys; prototyping; early users' manuals
Developing the wrong user interface	Task analysis; prototyping; scenarios; user characterization (functionality, style, workload)
Gold Plating	Requirement scrubbing; prototyping; cost-benefit analysis; design to cost
Continuing stream of requirement changes	High change threshold; information hiding; incremental development (defer changes to later increments)
Shortfalls in externally furnished components	Benchmarking; inspections; reference checking; compatibility analysis
Shortfalls in externally performed tasks	Reference checking; pre-award audits; award-fee contracts; competitive design or prototyping team building
Real-time performance shortfalls	Simulation; benchmarking; modeling; prototyping; instrumentation; tuning
Straining computer-science capabilities	Technical analysis; cost-benefit analysis; prototyping; reference checking

	Potential Risk	**Risk Monitoring Preventive measures**	**Risk Management and mitigation**	**Risk Exposure = Probability of Risk Occurrence * Cost of Risk**	**Prioritize Till next Review**
1.	**Size of the software** being very large and larger number of **users** than planned due to using eval SDLC and no confirmation	Reviewing **constant feedbacks from the customers** in **project meetings**	**Being flexible** in the **software design** to accommodate the necessary changes	Cost * Probability of Risk Occurrence = Salary for 2 programmers for 1 month * **0.8** = 100,000 *0.8 | 0.4	

	of Requirements in RE phase. (Fp→Loc→Effort)			=48000 | 24000	
2.	The software not being accepted by the CRM	**Response from the CRM,** reviewed on every **project meeting**	Early and **intensive interaction with the customer** for the success ofproject.	Cost * Probability of Risk Occurrence = Salary for 1 project manager for 1 month * **0.3** = 60,000 *0.3 = 18000	
3.	**Cost factor** involved in this project	Reviewing **reports on expenditure and other cost related** to the estimated cost in the **SPMP**	**Have additional funding** allocated for it in advance and using it in case of emergencies.	Cost * Probability of Risk Occurrence = Salary for financial officer for 1 month * **0.5** = 50,000 *0.5=25,000	
4.	**Customer requirements may change**	**CRM participation in design process** and reviewing feedback information in **group meetings**	**A new prototype** will replace the previous one to **accommodate the change**	Cost * Probability of Risk Occurrence = Salary for Project manager for 1 month * **0.4** = 60,000 *0.4 =24,000	
5.	**Technology** will not meet **expectation**	Constantly reviewing **project progress reports** by Project Development Manager and software managers	**Exploring alternatives** for the outdated technologies	Cost * Probability of Risk Occurrence = Salary for technologist for 1 month * **0.7** = 50,000 *0.7 =35,000	
6.	**Lack of training on tools and staff** being inexperienced	Reviewing **progress report** by software managers to determine the **status of the project**	**Providing adequate training** that is necessary for the **completion of the project**	Cost * Probability of Risk Occurrence = Salary for job hirer for 1 month * **0.6** = 50,000 *0.6 =30,000	
7.	The **prototype** not being **delivered on time**	Constant reviews **among team members** to ensure	**Setting deadline** before the **actual time** for submission of	Cost * Probability of Risk Occurrence	

			continuous progress on the prototype	the project	= Salary for project manager for 1 month * **0.2** = 60,000 *0.2 =12,000	

12. Configuration Management Plan

Provide a configuration management plan that defines the person responsible for project configuration management, the procedures that will be used, the planned configuration items, planned release dates for configuration items, and resources required to conduct CM.

CCB members: ***EzharKarim***

Procedures: Resources: Quality Assurance Software

Configuration Items: Ensure that CM is implemented throughout the project's life cycle.

No.	Item	Comments
1.	**SRS**	**Updated According To The New Changed Requirements**
2.	**PMP**	**Made Changes In The PMP According To Additional Requirements**
3.	**Modeling**	**Made Changes In The PMP Due To The Change In Team**
4	**Code Files**	**Configuration In The Code Files After New Requirements**

Ensure that project has a repository for storing configuration items and associated CM records. Briefly describe.

https://github.com/Ezharkarim/Project-of-Software-Engineering-.git

13. QualityPlan

Provide a quality plan that defines the person responsible for project quality assurance, the procedures that will be used and resources required to conduct quality assurance.

QA Manager and Staff: Shahmeer, Abdul Rau &Ezhar

Procedures: ***Identification, control, audit, and status accounting*** *will be done.*

Resources: Quality Assurance Software

Planned Quality Event: Ensure that QA is implemented throughout the project's life cycle. Dates include QA audits and reviews, design walkthroughs and other project activities that QA staff will participate in.

No.	Item	Comments
1.	**SRS**	**Reviewed SRS For Quality Checking**
2.	**PMP**	**Reviewed PMP For Quality Checking**
3.	**PTR**	**Reviewed PTR After Testing of Project**
4	**Code Files**	**Reviewed Code Files After Construction of Project**
	Project Release Document	**Reviewed Project Release Document Before Deployment of Project**

Ensure that project has a repository for storing configuration items and associated QA records.
Ensure that QA audits the baselines and CM activities on a regular basis.