



School of Computing

SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	4
Title of Experiment	Prepare Project Plan based on scope, Calculate Project effort based on resources and Job roles and responsibilities
Name of the candidate	
Team Members	
Register Number	
Date of Experiment	09.02.23

Mark Split Up

S. No	Description	Maximum Mark	Mark Obtained
1	Exercise	5	
2	Viva	5	
Total		10	

Staff Signature with date

Aim:

To Prepare Project Plan based on scope, Calculate Project effort based on resources,
Find Job roles and responsibilities

Team Members:

S No	Register No	Name	Role
1	RA2111032010006	Shaurya Singh Srinet	Rep/Member
2	RA2111032010026	Shounak Chandra	Member
3	RA2111032010029	Parth Galhotra	Member

Requirements:**1. Project Management Plan:**

Focus Area	Details
Integration Management	Governance Framework, Project Team Structure, Roles & Responsibilities of Team, Change Management, (Change Control, Issue Management), Project Closure
Scope Management	Scope Statement, Requirement Management (Gathering, Control, Assumption, Constraint Stakeholder), Define Deliverables, Requirement Change Control, Activities and Sub-Tasks
Cost Management	Estimate Effort, Assign Team, Budget Control
Quality Management	Quality Assurance: Quality assurance will be managed including governance, roles and responsibilities, tools and techniques and reporting Quality Control: Specify the mechanisms to be used to measure and control the quality of the work products
Resource Management	Estimate and manage the need People: People & Skills Required Finance: Budget Required Physical: Facilities, IT Infrastructure
Stakeholder	Identifying, Analyzing, Engaging Stakeholders
Risk Management	Identifying, analyzing, and prioritizing project risks

2. Estimation:

2.1. Effort and Cost Estimation:

Activity Description	Sub-Task	Sub-Task Description	Effort (in hrs)	Cost in INR
Web Application Development	E1R1A1T1	To create desktop level Web Application using Python, Flask and SQL	6-8	SQL dev-100K Frontend-43K Backend-100K
Research and Development	E2R2A2T2	Evaluation of software technology trends and incorporating them with updates and patches	4	For Research - 20K For rolling out patches/updates – 50K
Data Analytics	E3R3A3T3	Administrator of Data, Database Management, Evaluating trends in data	10 with shifts	Data Analyst-100K Data Scientist-90K Database Manager 56K
Help & Support	E4R4A4T4	Customer care	24 with shifts	Customer Care-70K to 80K
Licensing/ Trademarks/ Copyrighting	E5R5A5T5	Database, IDE, Server, Terms, Trademarking, Copyrighting	All time	25K (one time)
Marketing	E6R6A6T6	Advertisements, Public Relations	8-10 On requirement	Manager– 68K Coordinator–50K Assistant–25K
Testers	E7R7A7T7	To test the functionality of the software in expected and unexpected conditions	4	240K (one time)

2.2. Infrastructure/Resource Cost [CapEx]:

Infrastructure Requirement	Qty	Cost per qty	Cost per item
Laptops	3	60,000	1,80,000
Telephones	15	1,500	22,500
PCs	15	80,000	12,00,000
Printers	2	5,000	10,000
Office Rooms (Rent)	5	25,000 per month	1,25,000

2.3. Maintenance and Support Cost [OpEx]:

Category	Details	Qty	Cost per qty per annum	Cost per item
People	Network, DB Admin, Customer support, Developers	4	10,00,000	40,00,000
License	Database, server, Middleware, Government License	3	10,000	30,000
Infrastructures	Server Storage and Network	1	10,000	20,000

3. Project Team Formation:

3.1. Identification Team Members:

Name	Role	Responsibilities
Shaurya Srinet	Project Lead	Design end-to-end architecture, provide training and support, team management, monitoring and controlling
Parth Galhotra	UX Designer	Design overall visual user experience
Parth Galhotra	Frontend Developer	Develop user interface
Shounak Chandra	Backend Developer	Coding and Debugging, UI testing to optimize performance, maintaining database
Shaurya Srinet	Quality Assurance Lead	Come up with questionnaires and surveys, random quality checks
Shounak Chandra	Tester	Perform testing for various test cases, identifying flaws

3.2. Responsibility Assignment Matrix:

RACI Matrix	Team Members			
Activity	Name (BA)	Name (Developer)	Name (Project Manager)	Key Business User
User Requirement Documentation	A	C	I	R
Web Application Development	I	R	A	C
Data Analytics	C	R	A	I
Research and Development	I	R	A	C
Testing	I	R	A	C
Marketing	C	I	A	R

A	Accountable
R	Responsible
C	Consult
I	Inform

Result:

Thus, the Project Plan was documented successfully.