



**SRM**  
INSTITUTE OF SCIENCE & TECHNOLOGY  
(Deemed to be University u/s 1 of UGC Act, 1956)

**School of Computing**

**SRM IST, Kattankulathur – 603 203**

**Course Code: 18CSC206J**

**Course Name: Software Engineering and Project Management**

<b>Experiment No</b>	4
<b>Title of Experiment</b>	Prepare Project Plan based on scope, Calculate Project effort based on resources and Job roles and responsibilities
<b>Name of the candidate</b>	Pulipaka Prabhav
<b>Team Members</b>	M.Sai Praneeth Yadav, CH.Bharadwaj Karthik
<b>Register Number</b>	RA2111032010034
<b>Date of Experiment</b>	10-02-2023

**Mark Split Up**

<b>S.No</b>	<b>Description</b>	<b>Maximum Mark</b>	<b>Mark Obtained</b>
1	Exercise	5	5
2	Viva	5	5
<b>Total</b>		<b>10</b>	<b>10</b>

  
**Staff Signature with date** 17/2/2023

## Aim

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

## Team Members:

SI No	Register No	Name	Role
1	RA2111032010034	Pulipaka Prabhav	Lead
2	RA2111032010037	M.Sai Praneeth Yadav	Member
3	RA2111032010047	CH.Bharadwaj Karthik	Member

## 1. Project Management Plan

Focus Area	Details
Schedule Management	<p>Define Milestones</p> <ol style="list-style-type: none"><li>1) Requirement Gathering: 23-30 January 2023</li><li>2) Development Period: 5th February - 5th May 2023</li><li>3) Testing Period: 8th May - 20th May 2023</li><li>4) Deployments: 24th May 2023</li><li>5) Commencement Of Agile Scrum Sprints</li></ol>
Cost Management	<p>Estimate Effort:</p> <p>The project manager estimates the total cost of an e-commerce website development project at 1000000Rs. This estimate is based on historical data from similar projects, input from subject matter experts, and experience.</p> <p>The project manager estimates that it will take a total of 1,200 hours to complete the project. This includes 120-240 hours for design, 200-400 hours for development, 360 hours for testing, and 200 hours for project management.</p> <p>Assign Team:</p> <p>A team of 3 developers, 2 designers, and 1 project manager to the project. Each team member is assigned to specific tasks based on their skills and expertise.</p> <p>Budget Control:</p> <p>The project manager monitors project spending on a weekly basis, reviewing expenses and adjusting the budget as needed.</p>

	<p>If a particular task is taking longer than expected or requires additional resources, the project manager will work with the team to identify the issue and take corrective action, such as reassigning resources or adjusting the schedule.</p>
Communication Management	<p><b>Communication Requirements:</b>  Type of communication: Weekly progress update  Schedule: Every Friday At 3:00PM  Mechanism: E-Mail  Recipient: Project Manager, Team leads, Stakeholders</p> <p><b>Roles And Responsibilities:</b>  Project Manager: Responsible for overall communication on the project, including developing the communication plan, scheduling and conducting meetings, and ensuring that all stakeholders are kept informed.</p> <p>Team Leads: Responsible for communicating progress updates to the Project Manager, and ensuring that their team members are informed of any changes or updates.</p> <p>Stakeholders: Responsible for providing feedback and input on the project as it progresses, and for attending meetings and providing status updates as needed.</p> <p><b>Tools and Techniques:</b>  Email: Used for quick updates and status reports, as well as for scheduling and confirming meetings.</p> <p>PowerPoint: Used for monthly project status reports, which include key metrics and progress updates.</p> <p>Regular Meetings: Used to discuss project progress, review action items, and address any issues or concerns that arise. Meetings can be held in person, via phone or video conference, or using a combination of these methods.</p>

## 2. Estimation

### 2.1. Effort and Cost Estimation

Activity Description	Sub-Task	Sub-Task Description	Effort (in hours)	Cost in INR
Design the user screen	E1R1A1T1 (Effort-Requirement-Activity-Task)	Confirm the user requirements (acceptance criteria)	3	1500
	E1R1A1T2	Content and functionality	30-60	15000-30000
	E1R1A1T3	Performance and security	20-40	10000-20000
Identify Data Source for displaying units of Energy Consumption	E1R1A1T1	Go through Interface contract (Application Data Exchange) documents	5	2500
	E1R1A1T2	Document	24-48	12000-24000

Effort (hr)	Cost (INR)
1	500

### 2.2. Infrastructure/Resource Cost [CapEx]

Infrastructure Requirement	Qty	Cost per qty	Cost per item
Computers	2	40000	40000
Laptops	3	100000	100000
Internet Connectivity	20mbps	1000	1000

### 2.3 Maintenance and Support Cost [OpEx]

Category	Details	Qty	Cost per qty per annum	Cost per item
People	Network, System, Middleware and DB admin	3	2,000,000	6,000,000
	Developer , Support Consultant			
License	Operating System Database Middleware IDE	10	10000	100,000
Infrastructures	Server, Storage and Network	20	20000	400,000

### 3. Project Team Formation

#### 3.1. Identification Team members

Name	Role	Responsibilities
Pulipaka Prabhav	Key Business User (Product Owner)	Provide clear business and user requirements
M. Sai Praneeth Yadav	Project Manager	Manage the project
CH.Bharadwaj Karthik	Business Analyst	Discuss and Document Requirements
Pulipaka Prabhav	Technical Lead	Design the end-to-end architecture
M. Sai Praneeth Yadav	UX Designer	Design the user experience
CH. Bharadwaj Karthik	Frontend Developer	Develop user interface
M. Sai Praneeth Yadav	Backend Developer	Design, Develop and Unit Test Services/API/DB
Pulipaka Prabhav	Cloud Architect	Design the cost effective, highly available and scalable architecture
CH. Bharadwaj Karthik	Cloud Operations	Provision required Services
M. Sai Praneeth Yadav	Tester	Define Test Cases and Perform Testing

#### 3.2. Responsibility Assignment Matrix

RACI Matrix	Team Members			
Activity	CH. Bharadwaj Karthik (BA)	M.Sai praneeth Yadav(Developer)	M.Sai Praneeth Yadav(Project Manager)	Pulipaka Prabhav
User Requirement Documentation	A	C/I	I	R
Design And Prototyping	C	R	A	I
Development And Coding	C	R	A	I
Maintenance And Support	A	C	R	I

A	Accountable
R	Responsible
C	Consult
I	Inform

## Reference

1. <https://www.pmi.org/>
2. <https://www.projectmanagement.com/>
3. <https://www.tpsgc-pwgsc.gc.ca/biens-property/sngp-npms/ti-it/ervcpgpm-dsfvpmpt-eng.html>

## Result:

Thus, the Project Plan was documented successfully.