Department of Computer Science Engineering

SRM IST, Kattankulathur – 603 203

18CSC206J – SOFTWARE ENGINEERING AND PROJECT MANAGEMENT

Experiment No	04
Title of Experiment	Prepare Project Plan based on scope, Calculate Project effort based on resources and Job roles and responsibilities
Name of the Candidate	Sai Rohit P
Team Members	Sai Rohit (RA2111003010806) Pavan Sagar (RA2111003010809)
Date of Experiment	

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

Staff Signature with date

Aim:

To identify the system, functional and non-functional requirements for the project.

Team Members:

S. No.	Register Number	Name	Role
1	RA2111003010806	Sai Rohit	Lead / Rep
2	RA2111003010809	Pavan Sagar	Member

Project Title: TimetableSOS

Project Plan:

- Logic: The logical functioning of the app will be built using python.
- Front-end: The wireframe and final UI will be designed using Figma.
- Application: The app itself will be built using Flutter.
- Data: The data will again be handled using a DBMS framework integrated like Django or NodeJS.
- Testing: The trial runs will be deployed on our class students as a sample set and finally conduct reviews.
- Deploy: the app will be deployed on playstore / Appstore.

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 Deliverable Requirement Change Control Activities and Sub-Tasks
Schedule Management	Define Milestones Schedule Control
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
Communication Management	Determine communication requirements, roles and responsibilities, tools and techniques. [Type of Communication, Schedule, Mechanism Recipient]
Risk Management	Identifying, analysing, and prioritizing project risks
Procurement Management	Adhering to organization procurement process

Estimation

Effort and Cost Estimation

Activity Description	Sub-Task	Sub-Task Description	Effort (hours)	Cost (INR)
Design the user screen	E1R1A1T1	Confirm the user requirements (acceptance criteria)	3	
	E1R1A1T2			
	E1R1A1T3			
Identify Data Source for displaying units of Energy Consumption		Go through Interface contract (Application Data Exchange) documents	5	
		Document		

Effort (hr)	Cost (INR)
1	500

Infrastructure/Resource Cost [CapEx]

Infrastructure Requirement	Qty	Cost per qty	Cost per item
IR1	2	20,000	10,000
IR2	3	12,000	4,000
IR3	6	40,000	6,666

Maintenance and Support Cost [OpEx]

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

Project Team Formation

Identification Team members

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

Responsibility Assignment Matrix

RACI Matrix	Team Members			
Activity	Name (BA)	Name (Developer)	Name (Project Manager)	Key Business User
User Requirement Documentation	A	C/I	I	R

A	Accountable
R	Responsible
C	Consult
I	Inform

Reference

https://www.pmi.org/

https://www.projectmanagement.com/

https://www.tpsgc-pwgsc.gc.ca/biens-property/sngp-npms/ti-it/ervcpgpm-dsfvpmpt-eng.html

Result: Thus the project plan was documented successfully.