School of Computing

SRM IST, Kattankulathur – 603 203

Course Code: 18CSC206J

Course Name: Software Engineering and Project Management

Experiment No	4
Title of Experiment	Road Rescue
Name of the candidate	CHIRAG THAKUR
Team Members	S. RAHUL (RA2111003010099) CHIRAG THAKUR (RA2111003010071)
Register Number	RA2111003010071
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 Prepare Project Plan based on scope, Calculate Project effort based on resources, find Job Roles and responsibilities

Team Members:

Sl No	Register No	Name	Role
1	RA2111003010099	S. RAHUL	Lead/Rep
2	RA2111003010071	CHIRAG THAKUR	Member

Requirements:

1. Project Management Plan

Focus Area	Details
Schedule Management	- Governance Framework - Project Team Structure - Roles & Responsibilities of Team - Project Closure
Scope Management	- Scope Statement - Requirement Management (Gathering, Control, Assumption, Constraint Stakeholder) - Define Deliverable - Requirement Change Control
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 • Analyzing • Prioritizing project risks
Procurement Management	Adhering to organization procurement process

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	create the design for front end	Drawing analyzing the basic design and understanding how the UI will look.	3	2000
	coding the front end	Using logical analytical techniques to design the front end using various tools	6	6000
	merging front end end to back end	Merging the front to back end (database) to store the data	1	1000
Creating and managing a backend to store and analyze data	Creating and managing a backend to store and analyze data	creating a structure using dbms software and analyzing the data	4	4000

Effort (hr)	Cost (INR)
1	1000

2.1. Infrastructure/Resource Cost [CapEx]

Infrastructure Requirement	Qty	Cost per qty	Cost per item
Laptop	2	80000	160000
Keyboard	2	2000	4000
Mouse	2	1500	3000

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 Developer , Support 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

3. Project Team Formation

3.1.   Identification Team members

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

3.2.   Responsibility Assignment Matrix

RACI Matrix	Team Members	
Activity	S.RAHUL	CHIRAG THAKUR
1.Frontend	A	C/I
2.Backend	I	A
3.Maintenance	R	R

A	Accountable
R	Responsible
C	Consult
I	Inform

Result:

Thus, the Project Plan was documented successfully.