LP-I SPM ASSIGNMENT				
1) Create Project Plan				
Project Plan for Netflix Clone	**Team Members:**			
Project Name: Netflix Clone	Vaishnavi Harihar (21CO046)			
Start Date: June 25, 2023	Navnath Gite (21CO045)			
Finish Date : September 30, 2023	Harshvardhan Gaikawad(21CO044)			
Project Tasks:	Ritesh Gadre(21CO042)			
	Aryan Gaikwad(21CO043)			
1. Project Initiation				
Objectives				
1.Enable user to stream a wide variety of movies,TV shows.				
2. Create a search functionality that allows users to find content by title, genre, actor, director, or keywords				
3. Allow users to download content for offline viewing, which is especially useful for mobile users.				
Scope				
Help center or support system to assist users with account issues, technical problems, and inquiries.				
Plans for ongoing updates, enhancements, and maintenance.				
2. Needs Assessment				
Determine who the primary stakeholders are for your project, including potential users, investors, content providers, and regulatory bodies.				
Determine the expected growth of your user base and content library. Define the infrastructure and scalability requirements to accommodate this growth.				
3. Process Improvement Planning				
Form a process improvement team				
Brainstorm and prioritize process improvement ideas .				
Develop a detailed improvement plan.				
4. Technology Evaluation				
Research and evaluate customer support software solutions				

Select the most suitable software for implementation				
5. Software Implementation				
Install and configure the selected customer support software				
Conduct testing and resolve any issue				
Train support staff on the new software				
6. Workflow Optimization				
Redesign customer support workflows based on the new software capabilities				
Implement optimized workflows				
7. Performance Monitoring(Testing)				
Set up performance metrics and KPIs				
Monitor support team performance post-implementation				
Make necessary adjustments based on data				
8. Documentation				
Create user manuals and documentation for the new processes and software				
Conduct training sessions for support staff				
Milestones:				
1. Project Charter Approval (End of Week 1)				
2. Needs Assessment Report Completed (End of Week 2)				
3. Improvement Plan Finalized (End of Week 4)				
4. Software Selected and Contract Signed (End of Week 6)				
6. New Workflows Implemented (End of Week 12)				
7. Performance Metrics Established (End of Week 14)				
Dependencies:				

• Task 2 (Needs Assessment) must be completed before Task 3 (Process Improvement Planning).

• Task 4 (Technology Evaluation) must be completed before Task 5 (Software Implementation).

• Task 5 (Software Implementation) must be completed before Task 6 (Workflow Optimization).

• Task 6 (Workflow Optimization) must be completed before Task 7 (Performance Monitoring).

• Task 7 (Performance Monitoring) must be completed before Task 8 (Documentation).

Project Calendar:

• The project will follow a 14-week timeline, starting on June 24, 2023, and ending on September 30, 2023.

• Weekly status meetings will be held on Monday to review progress and address any issues.

Project Resources and Resource Types:

1. Project Manager - Full-time

2. Process Improvement Team - Part-time

3. Support Staff - Part-time

4. IT Specialist - Part-time

5. Software Vendor - External

Resource Assignment (Baseline):

• Project Manager: Assigned to all project tasks.

• Process Improvement Team: Assigned to Tasks 2, 3, and 6.

• Support Staff: Assigned to Tasks 5, 6, 7, and 8.

• IT Specialist: Assigned to Tasks 4 and 5.

• Software Vendor: Consulted during Task 4 and fully engaged during Task 5.

By following this project plan, we aim to streamline our customer support operations, improve efficiency, and enhance customer satisfaction. Regular monitoring and communication will ensure a successful project delivery.

2)Execute and Monitor Project Plan

Executing and monitoring a project plan is crucial to ensure that the project stays on track and meets its objectives. Here are the steps you can follow to execute and monitor a project plan effectively:

1. Update % Complete with Current Task Status:

 1. Regularly updates are collected from team members regarding the progress of their tasks.

2. Modify task completion percentages based on team input using project management software.

3. Maintain a digital record of these updates to monitor the site's development effectively.

2. Review the Status of Each Task:

1. Regularly assess the status of website design tasks for netflix clone to confirm alignment with the project plan.

2. Identify and address any task delays or potential risks promptly.

3. Maintain open communication with team members to resolve challenges and keep the project on track.

3. Compare Planned vs. Actual Status:

1. Continuously evaluate the project's progress against the initial plan for designing the netflix clone system.

2. Detect and analyze any discrepancies between the planned and real status.

3. Adjust the project strategy as needed to accommodate changes and minimize risks.

4. Review the Status of Critical Path:

1. Identify the critical path in designing the netflix clone for the movie watchers, tasks crucial for the project's timeline.

2. Vigilantly track the progress of critical path tasks.

3. Implement proactive measures to prevent delays and maintain project schedule adherence.

5. Review Resource Assignment Status:

1. Verify the availability and allocation of resources for the netflix clone project.

2. Monitor resource usage to avoid overcommitment or underutilization.

3. Adjust resource assignments as necessary to optimize resource allocation and enhance project efficiency.

To effectively execute and monitor the project plan, we had regular team meetings on every Friday, and used

project management software or tools to track progress, and maintain open communication channels		
with team members. Additionally, considered creating status reports or dashboards to provide a visual		
representation of the project's progress for stakeholders and team members to review.		

3)Generate Dashboard and Reports

Dashboard

1. Project Overview:

Project Name : Netflix clone

Project Duration: 16 weeks

Project Status : On Track

Task_Name	Start Date	End Date
Project Charter Approval	24/6/23	1/7/23
Needs Assessment Report	1/7/23	8/7/23
Process Improvement Planning	8/7/23	22/7/23
Technology Evaluation	22/7/23	5/8/23
Software Implementation	5/8/23	2/9/23
Workflow Optimisation	2/9/23	16/9/23
Performance Monitoring	16/9/23	30/9/23

Task_Name	Start Date	Duration
Project Charter Approval	0	7
Needs Assessment Report	7	7
Process Improvement Planning	14	14
Technology Evaluation	28	14
Software Implementation	42	28
Workflow Optimisation	70	14
Performance Monitoring	98	14

TASK TITLE	START DATE	DUE DATE	DURATION(Weeks)	PCT OF TASK COMPLETE
Project Charter Approval	24/6/23	1/7/23	1	100%
Needs Assessment Report	1/7/23	8/7/23	1	100%
Process Improvement Planning	8/7/23	22/7/23	2	90%
Technology Evaluation	22/7/23	5/8/23	2	40%
Software Implementation	5/8/23	2/9/23	4	70%
Workflow Optimisation	2/9/23	16/9/23	2	60%
Performance Monitoring	16/9/23	30/9/23	2	50%

4. Resource Reports:

1)Over-allocated Resources:

2)Resource Overview

5. Cost Reports

1)Earned Value Report

2)Resource Cost Overview

3)Task Cost Overview

6. Progress Reports

1)Critical Tasks

2)Milestone Report

3)Slipping Tasks

4. Resource Reports:

1) Over-allocated Resources:

List of resources with over-allocation issues:
1. Human Resources
2. Software and Tools
3. Budget and Financial Resources
4. Time and Scheduling

Tasks causing over-allocation:
1. **Technology Evaluation** : Evaluating and selecting technologies often involves thorough research, testing, and potential delays, which can strain resources and lead to over-allocation.
2. **Software Implementation:** This phase frequently demands a significant allocation of resources, particularly if the software is complex or the project lacks proper planning.
3. **Workflow Optimization** : Over-allocating resources can occur if the optimization process requires significant changes or if there are unforeseen challenges.

2) Resource Overview
List of all project resources and Roles
1. Project Manager: Oversees the entire project, sets goals, and ensures timely delivery.
2. Web Developers: Design and develop the website's code, front-end, and back-end functionality.
3. Quality Assurance (QA) Testers: Test the website's functionality, usability, and identify issues.
4. UI/UX Designers: Focus on user interface and user experience design.
5. Database Administrators: Handle database design and maintenance.
6. System Administrators: Manage server and hosting infrastructure.
7. Digital Marketers: Implement SEO and digital marketing strategies.
8. Project Stakeholders: The client, users, and other interested parties.
9. Hardware and Software: Servers, computers, and software tools for development and testing.
10. Web Hosting: Servers and hosting services for the live website.

Resource Allocation

Task_Name	Duration	% of Time
Project Charter Approval	7	7.1
Needs Assessment Report	7	7.1
Process Improvement Planning	14	14.3

Technology Evaluation	14	14.3	
Software Implementation	28	28.6	
Workflow Optimisation	14	14.3	
Performance Monitoring	14	14.3	

Resource Allocation

- 🔴 Project Charter Approval
- 🟡 Needs Assessment Report
- 🟢 Process Improvement Planning
- 🟠 Technology Evaluation
- 🔵 Software Implementation
- 🔵 Workflow Optimisation
- 🔴 Performance Monitoring

5. Cost Reports:
1) Earned Value Report
2) Resource Cost Overview
3) Task Cost Overview

Earned Value Management Template

Netflix Clone

Earned Value Analysis Report

Prepared By: Vaishnavi

Date: 12-08-2023

For Period: Week 8

Summary:

The actual cost is lower than the earned va

Planned Value (PV) or Budgeted Cost of Work Scheduled (BCWS)

WBS	Task Name	TBC	1	2	3	4	5	6	7	8	9	10	11	12
1.1	Task 1	3500	1000	500	2000									
1.2	Task 2	4200		500	800	900	2000							
1.3	Task 3	4500			700	2000	1000	800						
1.4	Task 4	3300			200	600	1000	1500						
1.5	Task 5	3000					700	500	1000	800				
1.6	Task 6	6700							700	2000	1000	2000	1000	
		0												
		0												
		0												
		0												

		0											
		0											
Insert new rows above this one													
Total Budgeted Cost	**25200**	1000	1000	3700	3500	4700	2800	1000	1500	2000	1000	2000	1000
Cumulative Planned Value (PV)		1000	2000	5700	9200	13900	16700	17700	19200	21200	22200	24200	25200
Actual Cost and Earned Value													
Cumulative Actual Cost (AC)		800	1950	4550	6550	10800	13600	14500					
Cumulative Earned Value (EV)		525	2800	5885	7820	9725	15170	20770					
Project Performance Metrics													
Cost Variance (CV = EV - AC)		-275	850	1335	1270	-1075	1570	6270	-	-	-	-	-
Schedule Variance (SV = EV - PV)		-475	800	185	-1380	-4175	-1530	3070	-	-	-	-	-
Cost Performance Index (CPI = EV/AC)		0.66	1.44	1.29	1.19	0.9	1.12	1.43	-	-	-	-	-
Schedule Performance Index (SPI = EV/PV)		0.53	1.4	1.03	0.85	0.7	0.91	1.17	-	-	-	-	-
Estimated Cost at Completion (EAC)		38400	17550	19483	21107	27986	22592	17593	-	-	-	-	-

6. Progress Reports:

1) Critical Tasks
2) Milestone Report
3) Slipping Tasks

I. Critical Tasks Report

A. List of Critical Tasks

Task ID	Task Description	Task Owner	Task Due Date
CT1	Requirements Analysis	Vaishnavi|Navnath|Harshwardhan	24-06-2023
CT2	Database Design	Vaishnavi	30-06-2023
CT3	User Interface Design	Harshwardhan	08-07-2023
CT4	Backend Development	Vaishnavi	22-07-2023
CT5	Frontend Development	Navnath	05-08-2023
CT6	Testing and QA	Ritesh	26-08-2023
CT7	User Acceptance Testing	Aryan	09-09-2023
CT8	Deployment	Harshwardhan	23-09-2023

B. Task Status

- **Overall Project Progress:** 40%
- **Critical Tasks Completed:** 2 out of 8
- **Critical Tasks Outstanding:** 6 out of 8

II. Milestone Report

Column1		Column2	Column3
Milestone	Description	Milestone Status	Milestone Due Date

|-----------|-----------------------------------|------------------|--------------------|

M1	Project Planning Completed	Achieved	08-07-2023
M2	Requirements and Design Finalized	In Progress	22-07-2023
M3	Development Phase Complete	Planned	05-08-2023
M4	Quality Assurance and Testing Phase	Planned	26-08-2023
M5	User Acceptance Testing	Planned	09-09-2023
M6	Deployment and Go-Live	Planned	23-09-2023

III. Slipping Task Report

A. Delayed Critical Tasks

Task ID	Task Description	Task
CT2	Database Design	Vaishnavi
CT4	Backend Development	Aryan
CT6	Testing and QA	Ritesh Kamble