

Assignment 1

Aim: Create Project Plan

- Specify project name and start (or finish) date.
- Identify and define project tasks.
- Define duration for each project task.
- Define milestones in the plan.
- Define dependency between tasks.
- Define project calendar.
- Define project resources and specify resource type.
- Assign resources against each task and baseline the project plan.

Theory: What is Project Plan?

A Project Plan is a structured document that defines how a project will be executed, monitored, and controlled. It serves as a roadmap that guides the team from initiation to closure, ensuring resources, tasks, and timelines are well-managed.

Project Title: Dashcam Application

The Dashcam Application is designed to provide vehicle owners with a smart and automated way to record, store, and review driving footage. Unlike traditional dashcams that only store raw video on SD cards, this application integrates cloud storage, AI-based incident detection, and mobile app accessibility. The system will allow users to: - Record video while driving. - Detect sudden movements (accidents, harsh braking) using sensors. - Store footage securely in the cloud or local device. - Provide emergency alerts and location tracking. - Allow users to review, download, and share video evidence. Administrators can manage servers, ensure security, and update application features. This project will improve road safety, accountability, and convenience for users. The plan includes task scheduling, milestones, resource allocation, and dependencies to ensure successful delivery within the estimated timeline.

Start Date: 20-Sept-2025

End Date: 20-Dec-2025

Project Tasks

Sr. No.	Task Name	Task Description	Duration (days)
1	Requirement Gathering	Collect requirements from users & stakeholders	7
2	System Design	Architecture, cloud integration, and DB design	10
3	UI/UX Design	Mobile app and dashboard UI design	8
4	Backend Development	APIs, server logic, AI event detection, database	20
5	Frontend Development	Mobile app + dashboard implementation	15
6	Integration & Testing	Integrate modules, test AI detection, video handling	12
7	Deployment	Deploy app to Play Store/App Store & servers	5
8	Documentation & Training	Prepare manuals & provide user training	5

Milestones

Milestone No.	Milestone Name	Description	Expected Date
1	Requirement Finalized	All requirements documented & approved	27-Sept-2025
2	Design Completed	DB & UI/UX design finalized	07-Oct-2025
3	Development Completed	All modules developed & tested	07-Nov-2025
4	Final Deployment	App deployed & training completed	20-Dec-2025

Task Dependencies

Task Name	Dependent On
System Design	Requirement Gathering
Database Setup	System Design
Module Development	Database Setup
Integration & Testing	Module Development
Deployment	Integration & Testing
Documentation & Training	Deployment

Project Calendar

- Working Days per Week: 5 (Mon–Fri)
- Working Hours per Day: 8
- Non-working Days: Saturday, Sunday, Public Holidays

Project Resources

Resource Name	Type	Role/Use
Project Manager	Human	Oversees planning & delivery
System Analyst	Human	Requirement gathering & analysis
Mobile Developer (2)	Human	Develop Android/iOS app
Backend Developer	Human	API, cloud & AI logic
Tester	Human	Quality assurance & testing
Server Machine	Material	Hosting app & cloud storage
Android Studio, Xcode, Firebase, AWS	Tools	Development & deployment

Resource Assignment to Tasks

Task Name	Assigned Resources	Effort (hrs)
Requirement Gathering	PM, Analyst	56
System Design	Analyst, Backend Dev	80
Database Setup	Backend Dev	40

Module Development	Mobile Devs, Backend Dev	320
Integration & Testing	Developers, Tester	120
Deployment	PM, Backend Dev	40
Documentation & Training	PM, Tester	40

Baseline Plan Summary

- Baseline Start Date: 20-Sept-2025
- Baseline End Date: 20-Dec-2025
- Total Estimated Duration: 90 Days
- Total Estimated Effort: ~696 Hours
- Submission Date: 18-Sept-2025

Conclusion

The Dashcam Application project plan outlines all essential tasks, milestones, dependencies, and resources for successful delivery within 90 days. By integrating AI-based incident detection, mobile accessibility, and secure cloud storage, this system will enhance road safety, accountability, and user convenience.