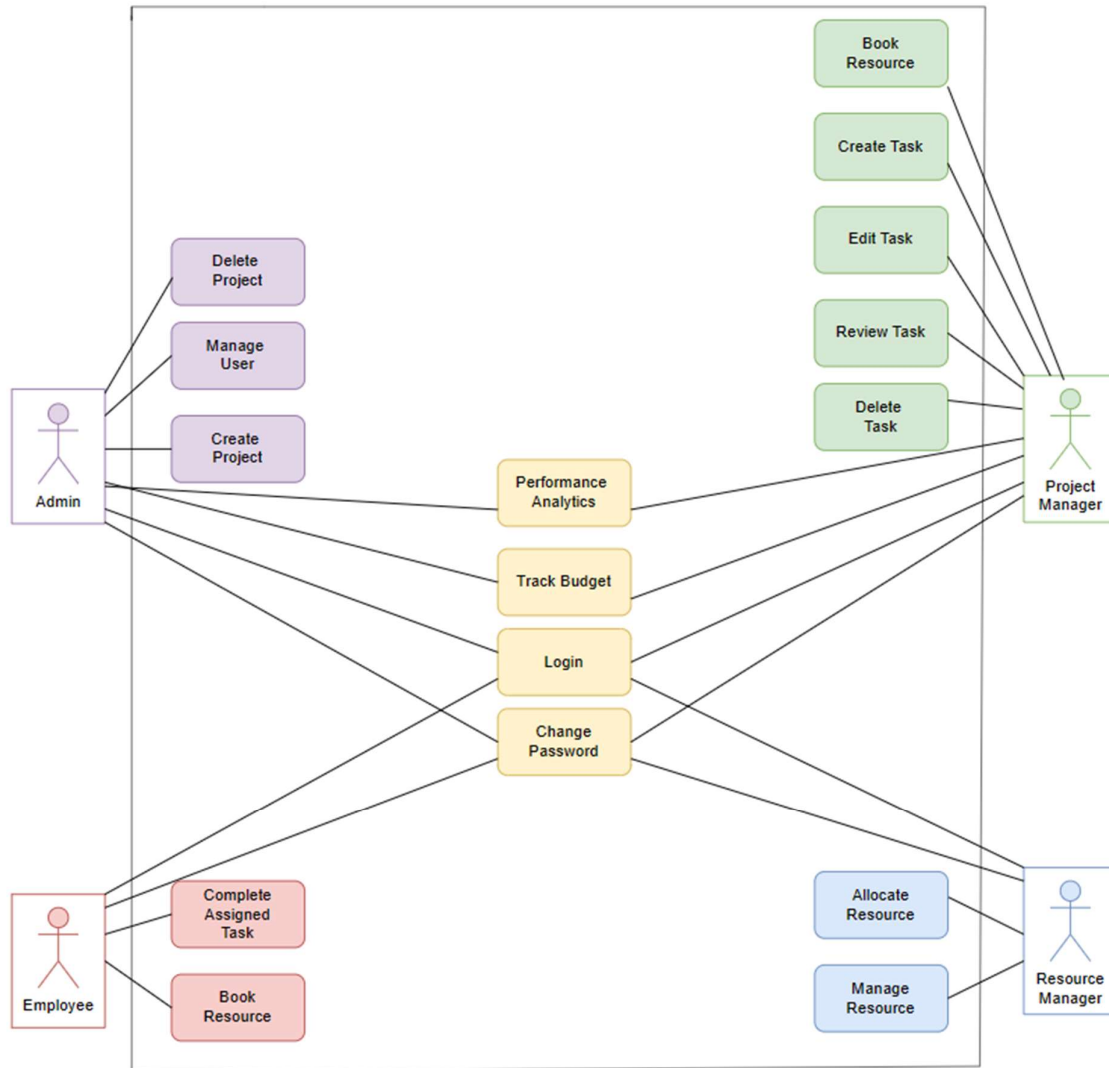# Group 19: Web based Project Management Tool
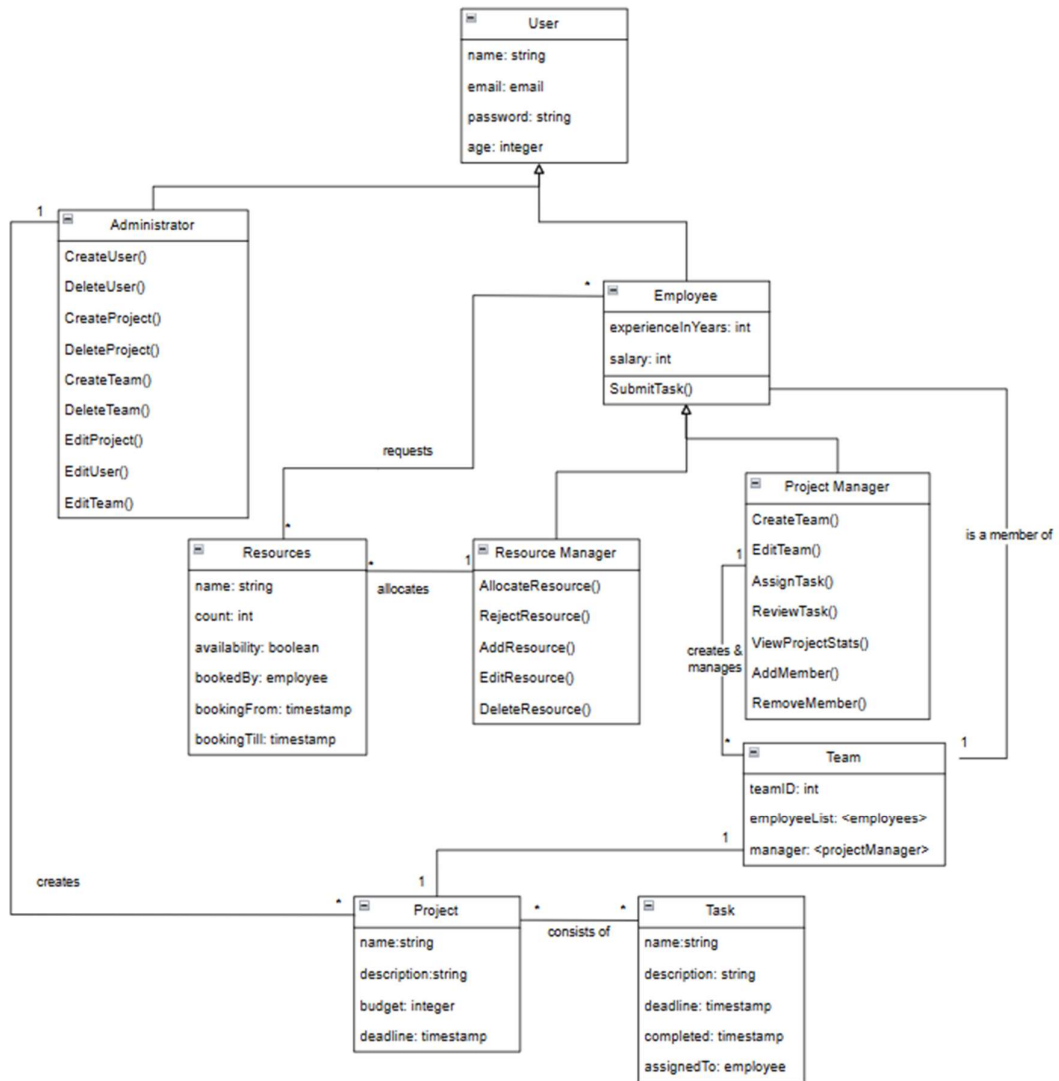
Design Document
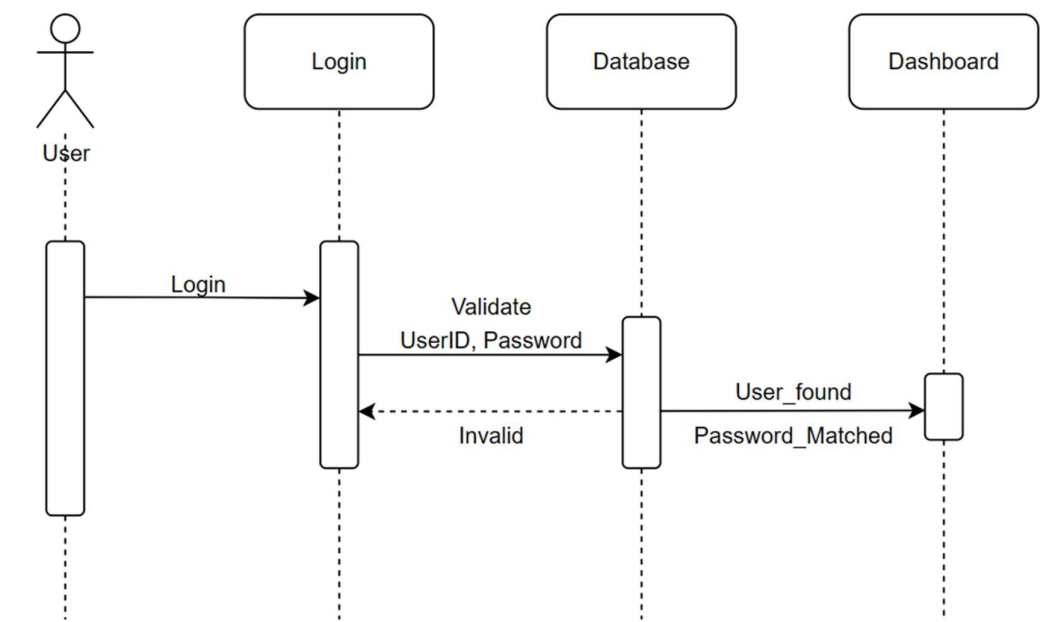
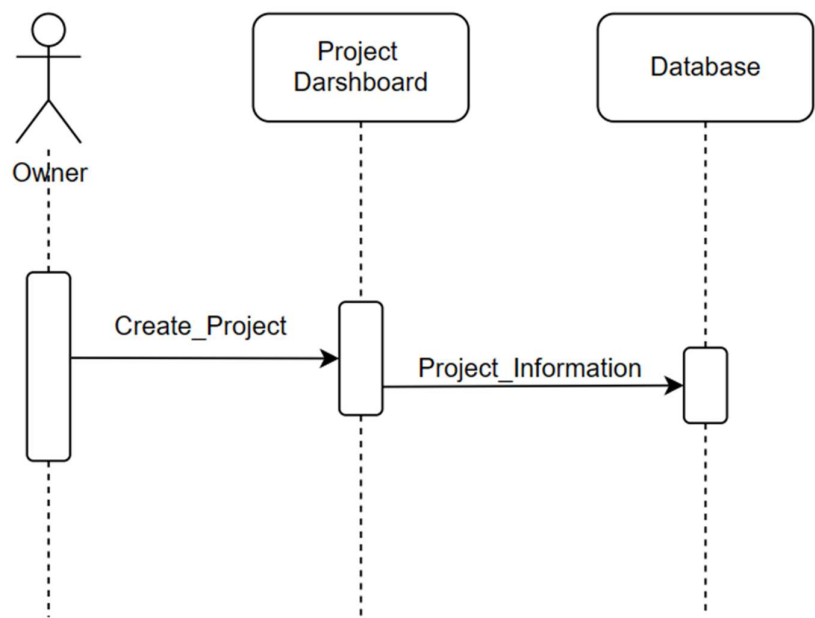## Use Case

Class Diagram
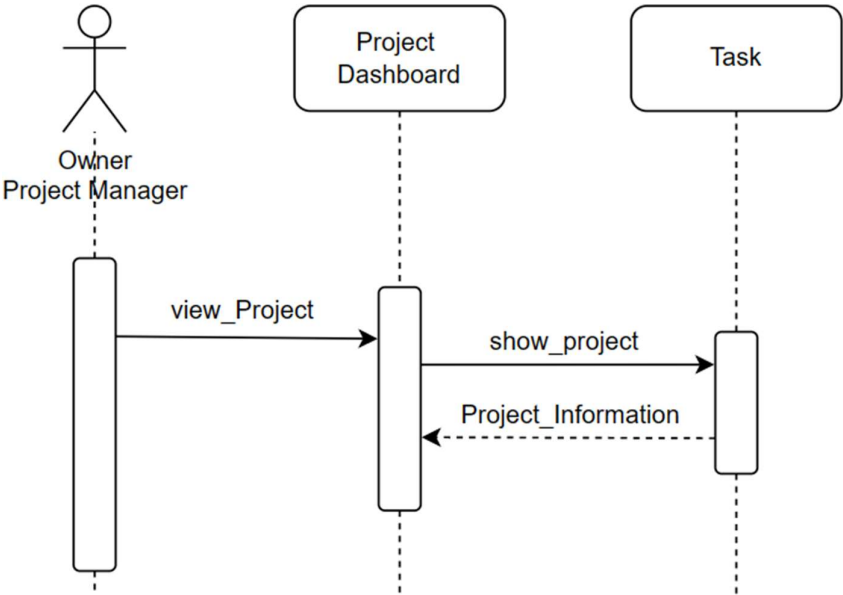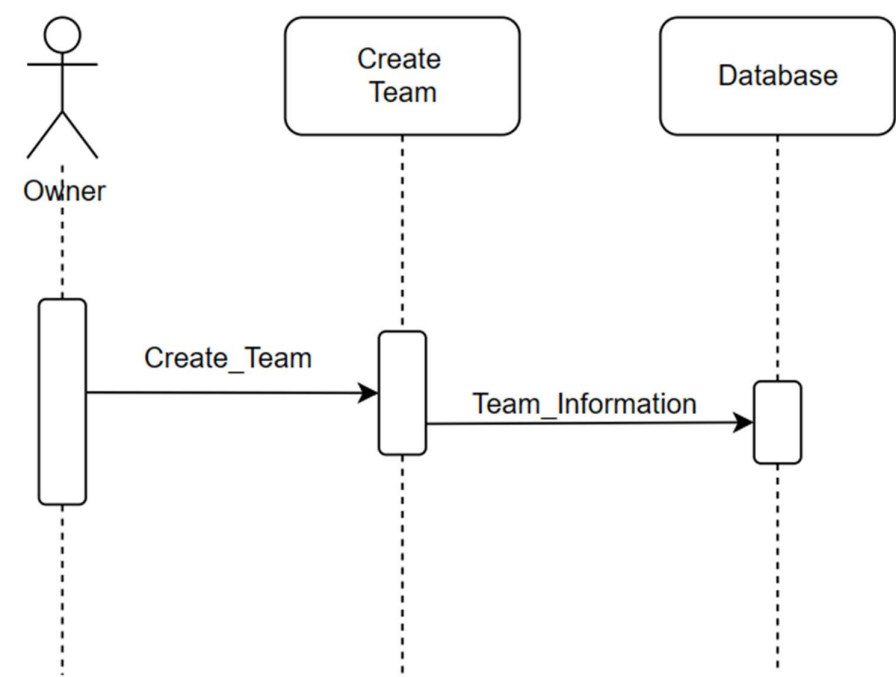
User
name: string
email: email
password: string
age: integer

Administrator
CreateUser()
DeleteUser()
CreateProject()
DeleteProject()
CreateTeam()
DeleteTeam()
EditProject()
EditUser()
EditTeam()

Employee
experienceInYears: int
salary: int
SubmitTask()

requests

Resources
name: string
count: int
availability: boolean
bookedBy: employee
bookingFrom: timestamp
bookingTill: timestamp

allocates

Resource Manager
AllocateResource()
RejectResource()
AddResource()
EditResource()
DeleteResource()

Project Manager
CreateTeam()
EditTeam()
AssignTask()
ReviewTask()
ViewProjectStats()
AddMember()
RemoveMember()

is a member of

creates & manages

Team
teamID: int
employeeList: <employees>
manager: <projectManager>

creates

Project
name:string
description:string
budget: integer
deadline: timestamp

consists of

Task
name:string
description: string
deadline: timestamp
completed: timestamp
assignedTo: employee

Login

Create Project

View Project

Create Team

View Team
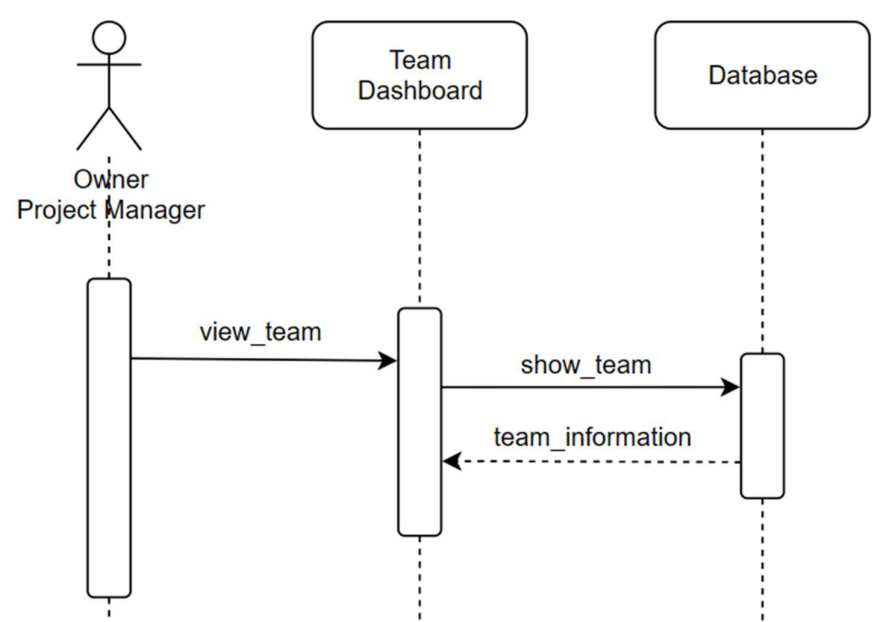
Create Task
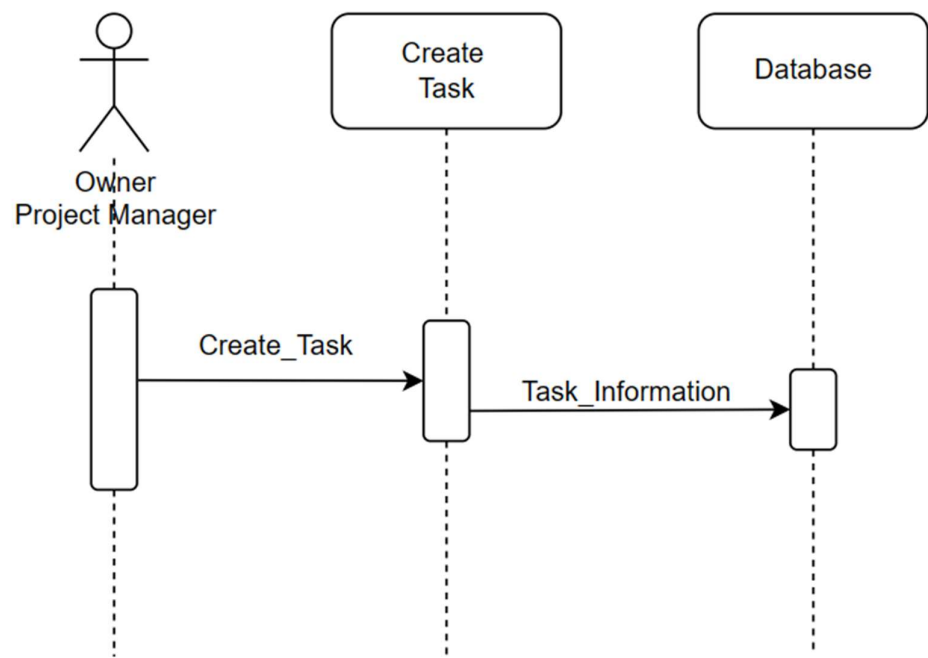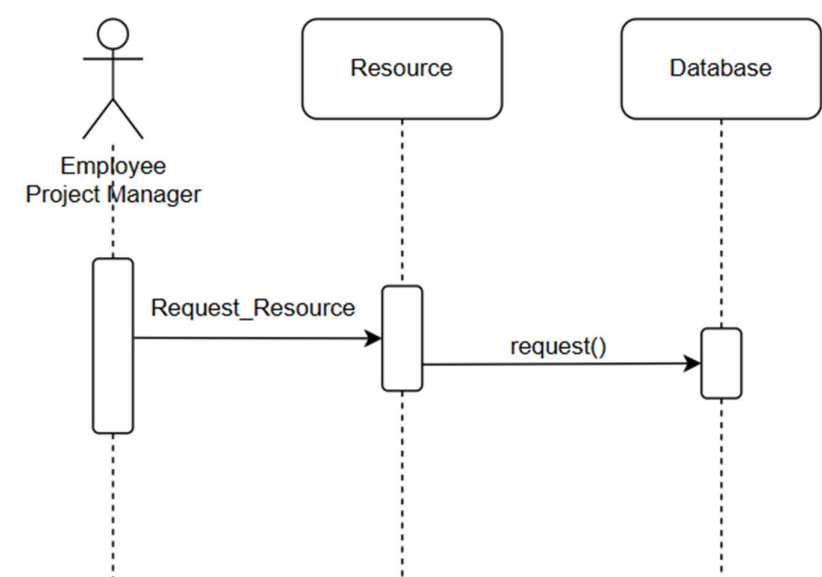

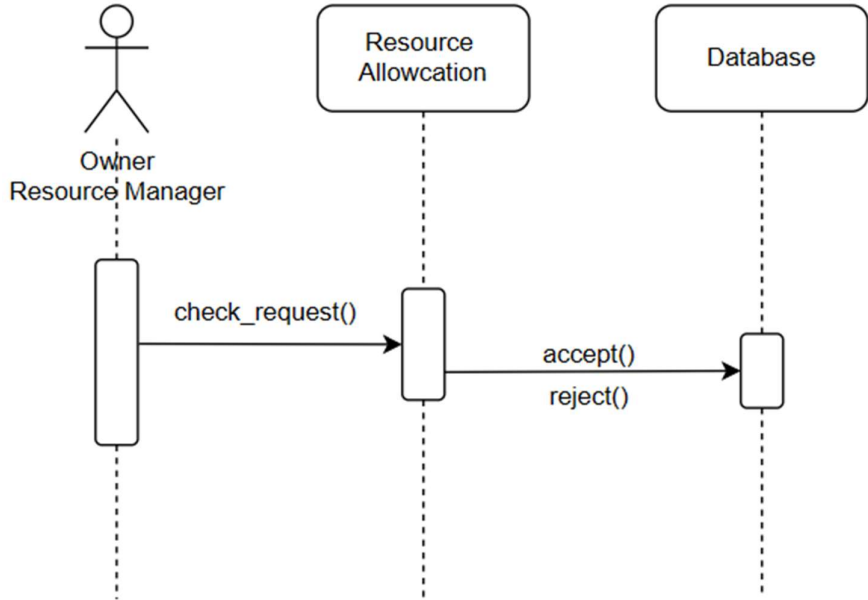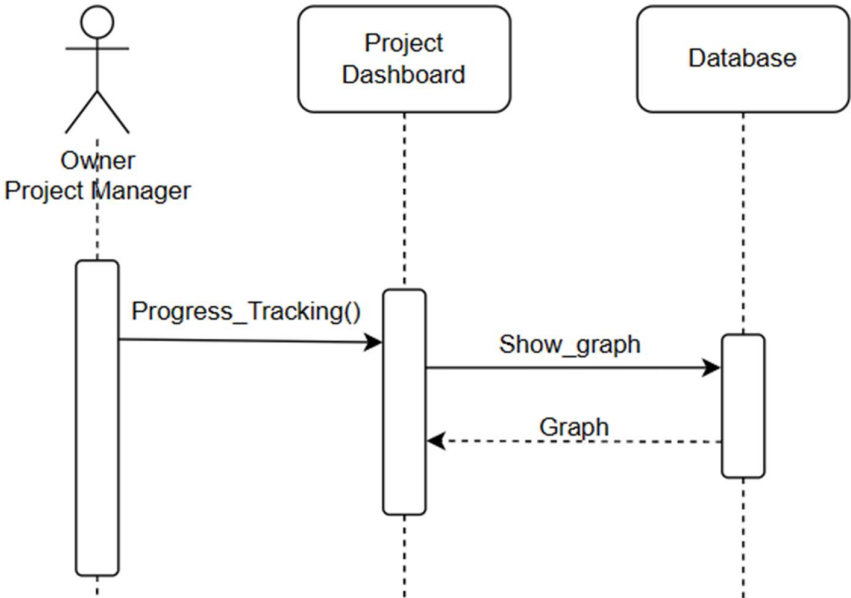**View Task**
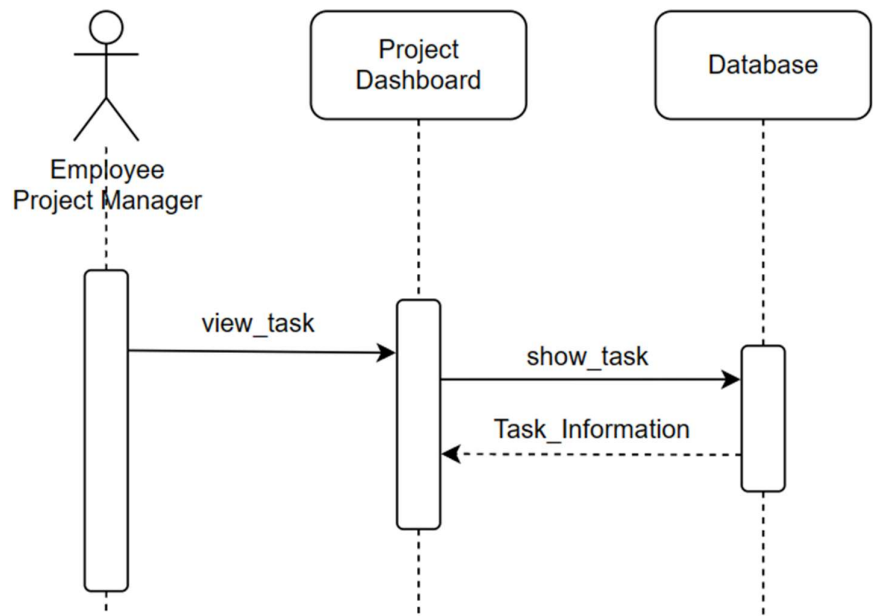
Add Resource
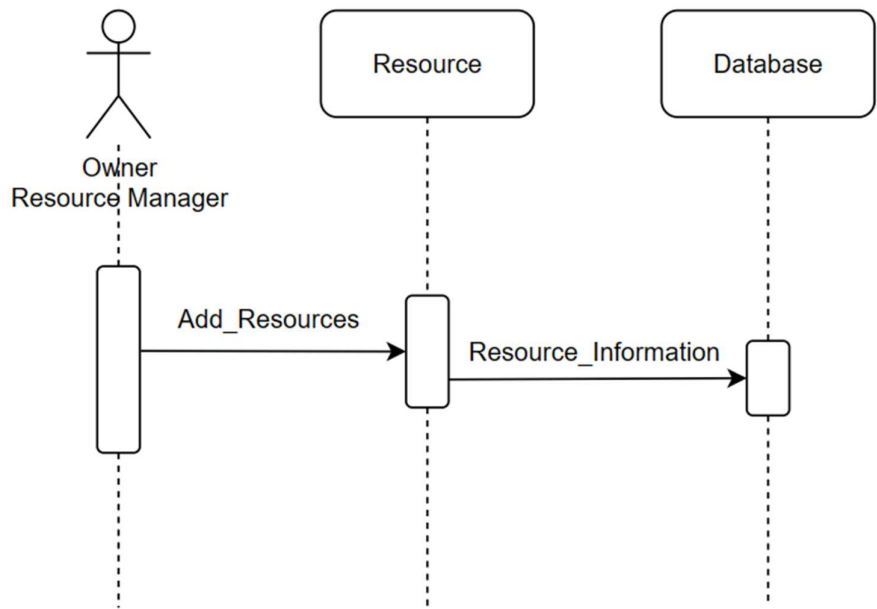
View Resource
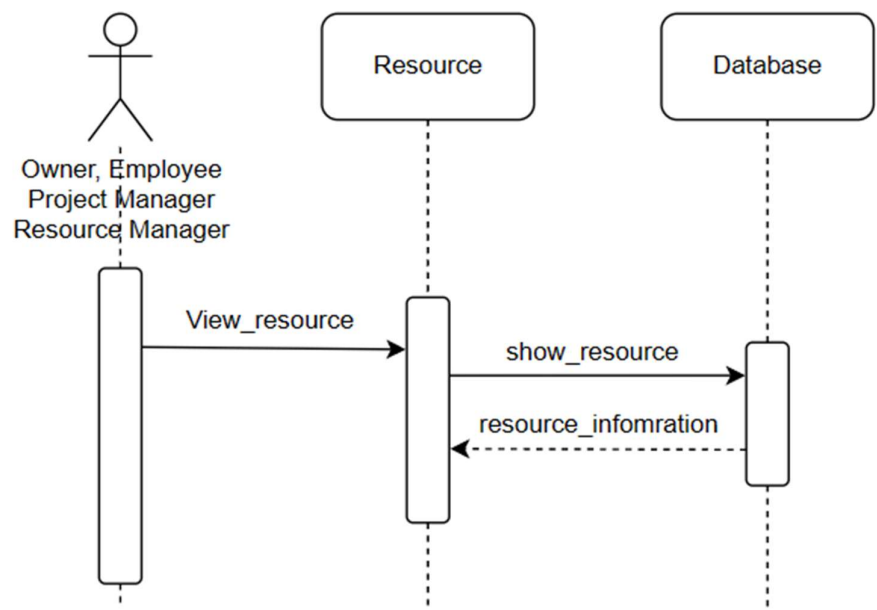
Request Resource

Allocate Resource

Progress tracking

Budget Tracking