**💻 Resource Tracker Application – Mini POC Scope**

**🔢 Core Entity: Resource**

| **Field** | **Description** |
| --- | --- |
| **EMP ID** | Unique identifier for each employee |
| **Resource Name** | Full name of the resource |
| **Designation** | Role/Title (e.g., Developer, Tester) |
| **Reporting To** | Manager/Supervisor name |
| **Billable** | Billable status (Yes/No) |
| **Technology/Skill** | Primary tech stack or skills |
| **Project Allocation** | Name of the current assigned project |
| **Location** | Current work location |
| **Email ID** | Official email address |
| **CTE DOJ** | Date of Joining in CTE |
| **Remarks** | Additional comments or notes |

**🔨 Feature Scope (for 2-week mini POC)**

**1. Frontend (Angular)**

* **Grid/List View** of all resources with filters and sorting
* **Add/Edit Resource** modal form
* Basic validations (mandatory fields, email format, date checks)
* Optional: Pagination, export to CSV

**2. Backend (ASP.NET Core Web API)**

* Endpoints:
  + GET /resources
  + GET /resources/{id}
  + POST /resources
  + PUT /resources/{id}
  + DELETE /resources/{id}
* Use layered architecture (Controller → Service → Repository)
* Implement logging and exception handling

**3. Database (SQL Server)**

**Suggested Table: Resources**

sql

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CREATE TABLE Resources (

EmpId INT PRIMARY KEY,

ResourceName NVARCHAR(100),

Designation NVARCHAR(50),

ReportingTo NVARCHAR(100),

Billable BIT,

TechnologySkill NVARCHAR(200),

ProjectAllocation NVARCHAR(100),

Location NVARCHAR(100),

EmailId NVARCHAR(100),

CteDoj DATE,

Remarks NVARCHAR(300)

);

**4. Deployment & DevOps**

* Run locally via Docker or publish to Azure Web App (optional)
* Use GitHub for version control with branching strategy
* Daily stand-ups and code reviews with mentor

**📝 Deliverables**

* Full working application
* GitHub repo with commits and README
* Demo video or live walkthrough
* API documentation (Swagger or Markdown)
* List of improvements/future features