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named as Phase - 1 - Problem Understanding & Requirements  
TECHNOLOGY PROJECT NAME : IBM-FE-Employee Directory with Search  
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## 1. Problem Statement :

In large organizations, employees often face challenges in finding the contact details, roles, and departments of their colleagues. Without a centralized employee directory, communication becomes inefficient, and collaboration is delayed. This results in reduced productivity and difficulty in networking across teams.

The **Employee Directory with Search** aims to provide a simple, intuitive, and efficient solution where employees can search, filter, and view essential details of their colleagues instantly. By offering a responsive and user-friendly interface, the directory ensures faster communication and smoother collaboration across the organization.

## 2. Users & Stakeholders :

### Users

- Employees Search for colleagues by name, role, or department.
- Managers/Team Leads: Quickly access team details for coordination. Easily look up seniors, mentors, or team members to New Joiners:
- ~~connect~~ HR Department: Responsible for managing employee data and ~~records~~ stakeholders
- IT/Admin Team: Ensures smooth functioning, maintenance, and integration of the system.
- Organization Leadership: Focused on improving collaboration, communication, and efficiency across teams.

### 3. User Stories

1. As an employee, I want to search for colleagues by name, so that I can quickly contact the right person.
2. As a manager, I want to view team members' details, so that I can coordinate tasks efficiently.
3. As an employee, I want to filter employees by department or role, so that I can easily find relevant colleagues.
4. As a new joiner, I want to see the role, department, and contact of colleagues, so that I know whom to approach for specific needs.
5. As an HR personnel, I want the employee records to remain accurate and updated, so that users always get correct information.

### 4. MVP Features

- Centralized employee list displaying: Name, Role, Department, Contact Information.
- Search bar for employees by name.
- Filters by department and role.
- Responsive frontend interface (works on desktop, tablet, and mobile).
- Minimalistic UI with employee cards for easy readability.
- Backend/API support for fetching employee data.

## 5. Wireframes / API Endpoint List

### Wireframe Concept (Textual)

- Homepage Layout

- Header: *Employee Directory with Search* title.
- Top Section: Search bar (text input).
- Left/Top Sidebar: Filters (Department dropdown, Role dropdown).
- Main Section: Employee cards arranged in grid/list.

- Employee Card Design

- Profile Photo (optional).
- Full Name.
- Role/Designation.
- Department.
- Contact (Email/Phone).

### Employee Directory with Search

#### Filters

Department

Role ▾

Name  
Role  
Department

Name  
Role  
Department

Name  
Role

Name  
Role

## API Endpoint List

- GET /api/employees → Fetch all employees.
- GET /api/employees/:id → Get details of a single employee.
- GET /api/employees?name=John → Search employees by name.
- GET /api/employees?department=HR → Filter employees by department.
- GET /api/employees?role=Manager → Filter employees by role.

## 6. Acceptance Criteria

- The system must allow searching employees by their name.
- The system must allow filtering employees by department and role.
- The employee card must display Name, Role, Department, Email, Phone.
- The application must be responsive across devices (desktop, mobile, tablet).
- Search results should be accurate, fast, and updated.
- The interface should be intuitive, clean, and user-friendly.
- Data should be consistent with employee records maintained by HR.