

Employee Management System

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Subject: MOBILE COMPUTING AND APPLICATION

Code: CSE-307/308

Project Overview

- **Purpose:** Manage employee data efficiently
- **Context:**
 - Web-based HR tool for employee records
 - Supports creation, search, and reporting
 - Built for scalability and ease of use
- **Goal:** Improve HR workflows and data accessibility
- **Visuals:** Screenshot of the application homepage

Key Features

- **Create Employee:**
 - Add new employees with details (name, email, role, etc.)
 - Dynamic dropdowns with custom input options
- **Search Employees:**
 - Filter by name, email, role, department, etc.
 - Edit or delete existing records
- **Reports:**
 - Detailed and summary reports
 - Filterable by various fields
- **Visuals:** Icons for each feature, form screenshot

User Interface

- Design:**

- Clean, responsive layout with Tailwind CSS
- Excel-like input styling for familiarity

- Navigation:**

- Tabs for Create, Search, and Reports
- Fixed header and nav bar for accessibility

- User Experience:**

- Auto-email formatting (@smilefoodproducts.com)
- Spelling correction for consistent data

- Visuals:** Screenshots of form, search, and report sections

The screenshot displays a web application interface for 'Smile Food Products Limited'. At the top, a blue header bar contains the company name and three navigation tabs: 'Create Employee' (highlighted in blue), 'Employee Search', and 'Reports'. Below the header, a light blue background features a white form titled 'Employee Information'. The form consists of several input fields, each with a grey header bar: 'Name' (text input), 'Email' (text input with placeholder 'e.g., john.doe'), 'Role' (dropdown menu with placeholder 'Select or type an option'), 'Department' (dropdown menu with placeholder 'Select or type an option'), 'Job Location' (dropdown menu with placeholder 'Select or type an option'), 'Job Title' (dropdown menu with placeholder 'Select or type an option'), and 'Age' (dropdown menu with placeholder 'Select or type an option'). At the bottom of the form, there are two buttons: a blue 'Save' button and a red 'Clear All Data' button.

Technical Details

•Technologies:

- HTML, JavaScript, Tailwind CSS
- SheetJS (XLSX) for Excel exports
- jsPDF & AutoTable for PDF generation

•Key Functions:

- populateDropdown: Dynamic field options
- updateEmployeeList: Real-time search
- normalizeInput: Data consistency

•Visuals: Code snippet, tech stack diagram

The screenshot displays the 'Smile Food Products Limited' application interface. At the top, a blue header bar contains the company name and three navigation buttons: 'Create Employee', 'Employee Search' (which is highlighted), and 'Reports'. Below the header, the main content area features a white card titled 'Employee Search'. This card contains two dropdown menus: 'Select search field' and 'Select value'. The 'Select search field' dropdown is currently open, showing a list of options: Name, Email, Role, Department, Job Location, Job Title, and Age. The 'Select value' dropdown is closed. The background of the page is a light blue gradient.

Future Improvements

•Planned Enhancements:

- File import for bulk employee data
- Partial search and advanced filters
- Input sanitization for security

•Additional Features:

- Pagination for large datasets
- Configurable email domain
- Accessibility (ARIA, keyboard navigation)

•Next Steps:

- User testing and feedback
- Deployment to secure server

•**Visuals:** Roadmap timeline, mockup of new feature

Smile Food Products Limited

Create EmployeeEmployee SearchReports

Reports

Search and Preview Reports

Detailed ReportSelect filter fieldSelect value

Please select a valid filter field.

Please select a filter field.

Download
Detailed
Excel

Download
Summary
Excel

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Detailed
PDF

Download
Summary
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