**Struct Definitions**

**1. Admin**

* **Fields:**
  + **id:** Admin identifier.
  + **password:** Password for authentication.
* **Usage:** Stores admin credentials.

**2. Employee**

* **Fields:**
  + **id:** Employee identifier.
  + **password:** Password for authentication.
  + **name:** Full name.
  + **age:** Age in years.
  + **designation:** Job title.
  + **salary:** Monthly salary.
  + **experience:** Total work experience in years.
* **Usage:** Holds employee information.

**3. Request**

* **Fields:**
  + **employee\_id:** ID of the requesting employee.
  + **type:** Request type ("Leave" or "Permission").
  + **reason:** Explanation for the request.
  + **status:** Currentstatus ("Pending", "Approved", "Rejected").
* **Usage:** Tracks leave and permission requests.

**Functions**

**1. Main Function**

* **Explanation:** Provides the entry point for the application. Manages user choices between admin login, employee login, and exit.
* **Inputs:** User input for selection.
* **Outputs:** Navigates to the chosen module or exits the program.

**2. Admin Login**

* **Explanation:** Authenticates admin credentials against predefined records.
* **Inputs:** Admin ID and password.
* **Outputs:** Logs the admin in or displays an invalid credentials message.

**3. Employee Login**

* **Explanation:** Authenticates employee credentials against existing records.
* **Inputs:** Employee ID and password.
* **Outputs:** Logs the employee in or displays an invalid credentials message.

**4. Admin Menu**

* **Explanation:** Provides options for managing admins, employees, and requests.
* **Inputs:** Admin’s menu choice.
* **Outputs:** Executes the selected operation or returns to the main menu.

**5. Employee Menu**

* **Explanation:** Provides employees with options to view details, submit requests, or update details.
* **Inputs:** Employee’s menu choice.
* **Outputs:** Executes the chosen operation or returns to the main menu.

**6. Add Admin**

* **Explanation:** Adds a new admin to the system.
* **Inputs:** Admin ID and password.
* **Outputs:** Adds the admin or displays an error if the limit is reached.

**7. Remove Admin**

* **Explanation:** Removes an admin by their ID.
* **Inputs:** Admin ID.
* **Outputs:** Removes the admin or displays an error if the ID is not found.

**8. Update Admin**

* **Explanation:** Updates an admin’s password.
* **Inputs:** Admin ID and new password.
* **Outputs:** Updates the record or displays an error if the ID is not found.

**9. List Admins**

* **Explanation:** Displays all registered admins.
* **Inputs:** None.
* **Outputs:** List of admin IDs.

**10. Add Employee**

* **Explanation:** Adds a new employee to the system.
* **Inputs:** Employee details (ID, password, name, age, etc.).
* **Outputs:** Adds the employee or displays an error if the limit is reached.

**11. Remove Employee**

* **Explanation:** Removes an employee by their ID.
* **Inputs:** Employee ID.
* **Outputs:** Removes the employee or displays an error if the ID is not found.

**12. Update Employee**

* **Explanation:** Updates an employee’s details.
* **Inputs:** Employee ID and new details.
* **Outputs:** Updates the record or displays an error if the ID is not found.

**13. List Employees**

* **Explanation:** Displays all registered employees.
* **Inputs:** None.
* **Outputs:** List of employee details.

**14. Submit Request**

* **Explanation:** Allows employees to submit leave or permission requests.
* **Inputs:** Request details (type, reason, ID).
* **Outputs:** Adds the request to the system or displays an error if the limit is reached.

**15. View Requests**

* **Explanation:** Displays all leave/permission requests.
* **Inputs:** None.
* **Outputs:** List of requests.

**16. Manage Request**

* **Explanation:** Allows admins to approve or reject a request.
* **Inputs:** Employee ID and decision.
* **Outputs:** Updates the request status.

**17. Authenticate Admin**

* **Explanation:** Verifies admin credentials.
* **Inputs:** Admin ID and password.
* **Outputs:** Boolean indicating success or failure.

**18. Authenticate Employee**

* **Explanation:** Verifies employee credentials.
* **Inputs:** Employee ID and password.
* **Outputs:** Boolean indicating success or failure.