

Employee's Database

| Attribute | Data Type | Constraint | Description | Example |
|-------------|-----------|-------------|---------------------------|--|
| EmpID | String | Primary Key | Employee's ID: unique | 32 |
| Name | String | Not Null | Employee's name | Sachin Gupta |
| Designation | String | Not Null | Employee's description | Manager |
| Department | String | Not Null | Employee's Department | Finance |
| Attendance | Array | None | Employee's Attendance | 20 March 2021 In Time: 9am Out Time: 5pm |
| Username | String | Foreign Key | Company's Username | Reliance Textiles |

Admin's Database

| Attribute | Data Type | Constraint | Description | Example |
|-----------|-----------|-------------|-----------------------|-------------------|
| Username | String | Primary Key | Company's Username | Reliance Textiles |

Processes

| Process ID | Process Name | Description | Inbound Data Flows | Outbound Data Flows |
|------------|-----------------|--|-----------------------------------|--|
| 1.0 | Authentication | Credentials are inputted and according to that, the user is register/logged in as admin/employee | Auth details | Auth response |
| 2.0 | Search | The admin can filter employees according to name, Employee Id, Designation, Department. | Auth details, Search details | Authenticated / Not Authenticated, Search response |
| 3.0 | ViewData | The employee/admin can view an employee's profile and attendance | Employee ID | Employee's biodata, Employee's attendance |
| 4.0 | Attendance Log | The admin can log attendance by inputting date and time | Attendance details(date and time) | Logged / Not Logged |
| 5.0 | Manage Employee | The admin can add, delete and edit employee's biodata | Employee ID, Edit/Add Details | Updated / Not Updated |

Data Flow

| Data Flow Name | Data Structure | From | To | Description |
|-----------------------|---|--------------------------|---|--|
| Auth details | Authentication credentials: username, password | Employee/Admin Entity | Authentication System | Auth credentials are inputted from admin/user |
| Search details | Name, Employee ID, Designation, Department | Employee/Admin Entity | Search Process | Filter fields are provided |
| Employee ID | Unique employee ID | Search Process | View Data & Manage Employee Processes | Unique ID of each employee |
| Attendance details | Date, Time (check in, check out) | Admin Entity | Attendance Log Process | Date and Time are inputted in form of calendar and clock |
| Update Details | Name, Employee ID, Designation, Department | Admin Entity | Manage Employee Process | Update credentials are provided |