

Employee's Collection

Attribute	Data Type	Constraint	Description	Example
EmpCd	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 Collection

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

Leave's Collection

Attribute	Data Type	Constraint	Description	Example
_id	ObjectID	Primary Key	Mongodb Unique id	ObjectId("609b6b618e4e3d0022f637f3")
Admin	String	Foreign Key	Company's Username	Reliance Textiles
EmpCd	String	Foreign Key	Employee's ID	20
Date	Object	Not Null	Contains year,month,date of leave	Date:{ year:2021, month:5, date: 21}
days	Int32	Not Null	No. of leave days	5
reason	String	None	Reason for leave	Not Well
name	String	Not Null	Employee's Name	Arsh Kashyap
status	String	Not Null	Leave Status	Pending, Accepted, Rejected

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