1. **Functional requirements**

* Hr should be able get employee details
* Should be able to mark start and end of employee’s working time
* Should be able to mark an employee present/absent
* Should be able to get the employee attendance between a date range.
* Should be able to approve or reject an employee leave request.
* Should be able to get the pay of an employee in range of dates.
* Each employee has a role: user, hr, admin
* Admin can add and delete employees
* Admin can make an employee an admin
* Admin is an employee with admin role

1. **Entities**

* Employee
* Job
* Department
* Salary
* Attendance
* Leave
* Role

1. **Deciding relations**

* Employee has one job
* One job is done by many employees
* A department has many jobs, a job belongs to one department
* A department has salaries
* An employee can have multiple attendance records
* An attendance record can be considered as a leave
* An employee can have multiple leaves
* One attendance record has one leave
* One employee has many roles and one role has many employees

1. **Deciding columns and constraints**

* Employee
* Id
* First name
* Last name
* Email
* Password
* Gender
* Salary id
* Department
* Id
* Name
* Salary
* Id
* Amount
* Job id
* Department id
* Job
* Id
* Title
* Leave
* Id
* Date
* Reason
* Employee id
* Status (PENDING, APPROVED, REJECTED)
* Attendance
* Id
* Employee id
* Leave id
* Date
* Status (PRESENT/ ABSENT)
* Role
* Id
* Name
* Employee\_role
* Employee id
* Role id