# Functional Requirements

## Inputs

Need to collect an employee's department, name, password, email, gender, age, job, date employed so that the admin can add a new user to the database to enable them to create leave applications in the first place.

New leave types of applications can be created by the admin by giving the leave type a name, description, maximum amount of day before the leave day caps and the rate/speed at which this leave type adds a new day (a ratio of 1 = one day is returned/added of every year that passes; 0.5 = one day per every 2 years added; 12 = one day added per month, etc.).

A user can apply for a leave application using there given user\_id, the type of leave they want, start date and the amount of days of leave they want to take.

A user for the same department and higher rank can approve or deny a new pending leave application.

Input into database needs to be safe and secure.

## Processes

Newly created leave applications need to be added to a pending list so a person with a higher rank can approve or reject the application, thus removing it from the pending list.

Application need to be created and stored as well as be able to cancel an application they created.

## Outputs

An application needs to be approved or denied, can stay pending forever.

View all or single employee information, a list of all leave types, a current user leave balance and history of approved, rejected and pending application created.

## Data

Admin user needs to be added into database to create new employees and leave type for leave applications.

Created Leave applications and Users data should be stored in the database so it can be viewed later and edited if needed.

A database entity that holds references to newly created leave applications that haven’t been approved or rejected yet. This makes it easier to find applications that needs approval for a specific manager.

A entity that holds information of all existing departments and ranks them from 0 upward (0 being the highest rank, ex. CEO, and the highest number being the lowest rank of the whole business)