High Level Design

# DB

This project use mongdb to store data. It will create ‘employee’ database on localhost, and create collection ‘employees’ on it. The collection structure is like below:

{

name: string,

department: string

title: string,

startDate: Date

}

# Server side API

This project use play! Framework as backend, and use java to develop Model and Controller to expose below api, which is expose in route file.

# api

GET /api/employees controllers.Employees.list()

POST /api/employees controllers.Employees.create()

GET /api/employees/:id controllers.Employees.detail(id:String)

PUT /api/employees/:id controllers.Employees.update(id:String)

DELETE /api/employees/:id controllers.Employees.delete(id:String)

# Client side UI

I use angularjs framework, with ui-router, highcharts to develop single page app. It incldues below views:

1. Employee list view, this is default view, it show employee list. Each row of employee has edit and delete link.
2. Create new employee view.
3. Edit employee view
4. Department chart view, it show deparment pie char by using highcharts.