Application Plan Sketch

1. Name of the application

MUBIA – Multi Business Access

2. Goals of the application

- Providing access to a building with multiple offices
- Achieving greater security
- Providing useful information for employers
- Facilitate accounting

3.Target audience

- Employers
- Employees
- Building administrator
- Security staff

4. User interactions

Employee

- access the building (check in)
- exit the building (check out)
- go on vacation
- ask for assistance

Employer

- manage a company (update)
- manage the companies employees (add/update/remove)
- get information (charts , notifications) about employees

- grant/revoke access from users
- get information about users (check in/out timestamps)
- get notifications (when users ask for assistance)
- open/lock the system

Security staff

- manage companies (add/remove)
- manage employers (add/remove)
- manage security staff (add/remove)
- get information (charts, notifications) about companies

Building administrator

5. Back-end technologies

1. PHP
2. Laravel 7.x framework
3. MySQL
4. ??
5. ??

6. Front-end technologies

1. HTML
2. CSS
3. JavaScript
4. ??
5. ??

7. Database tables

Employees

- id
- name
- password
- company_id
- has_access
- checked_in
- checked_out
- on_vacation

Employers

- id
- name
- password
- company_id
- admin_id
- has_access

Administrators

- id
- name
- password

Securitymembers

- id

- name
- password
- admin_id
- system_opened
- system_locked

Companies

- id
- name
- admin_id

8. Database relations (Eloquent)

- an employee belongsTo a company
- a company hasMany employees
- an employer hasOne company
- a company hasMany employers
- an employee hasMany employers Through company
- a company hasOne administrator
- an employer hasOne administrator
- a security member hasOne administrator
- an administrator belongsToMany companies
- an administrator belongsToMany employers
- an administrator belongsToMany security members

9. Database Schema Design

http://www.laravelsd.com/share/HEvLTt

Employers
id *increments*	
name *string*	
password *string*	
company_id FK *bigInteger*	
admin_id FK *bigInteger*	
timestamps *timestamps*	
Add new column	

Companies
id *increments*	
timestamps *timestamps*	
admin_id FK *bigInteger*	
Add new column	

Employees
id *increments*	
name *string*	
password *string*	
company_id FK *bigInteger*	
has_acces *boolean*	
checked_in *timestamp*	
checked_out *timestamp*	
timestamps *timestamps*	
Add new column	

Administrators
id *increments*	
name *string*	
password *string*	
timestamps *timestamps*	
Add new column	

Securitymembers
id *increments*	
name *string*	
password *string*	
admin_id FK *bigInteger*	
system_opened *timestamp*	
system_closed *timestamp*	
timestamps *timestamps*	
Add new column	

Laravel Schema Designer v0.7.1 follow me on twitter @okyn01