Application Plan

1. Name of the application

*MUBIA – Multi Business Access*

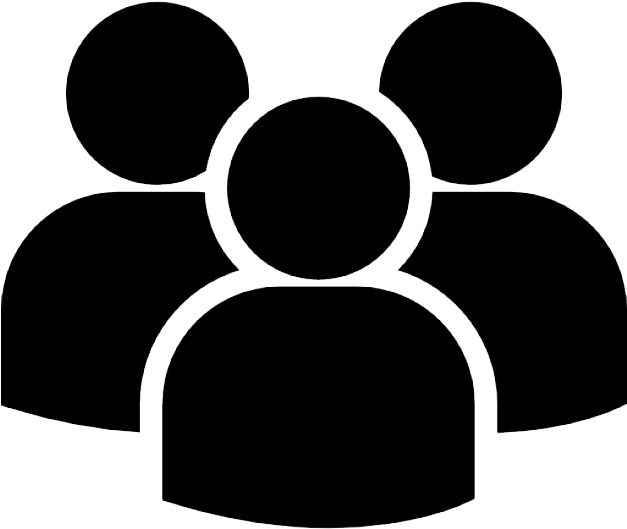
2. Goals of the application

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

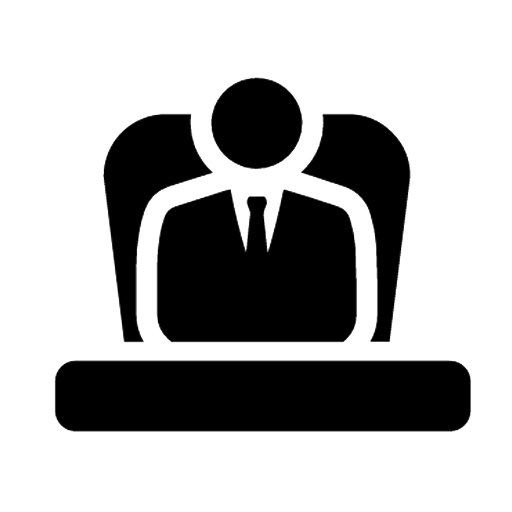
3.Target audience

* Employers
* Employees
* Building administrator
* Security staff

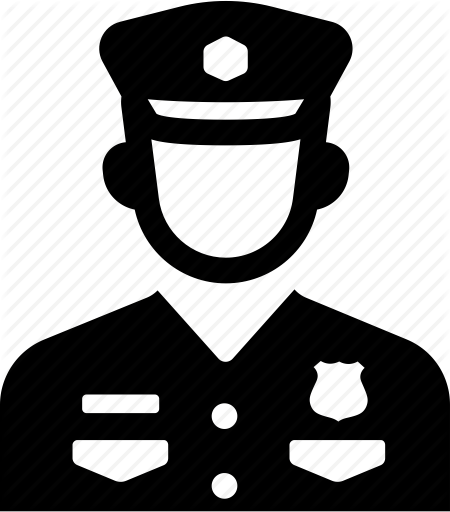
4. User interactions

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

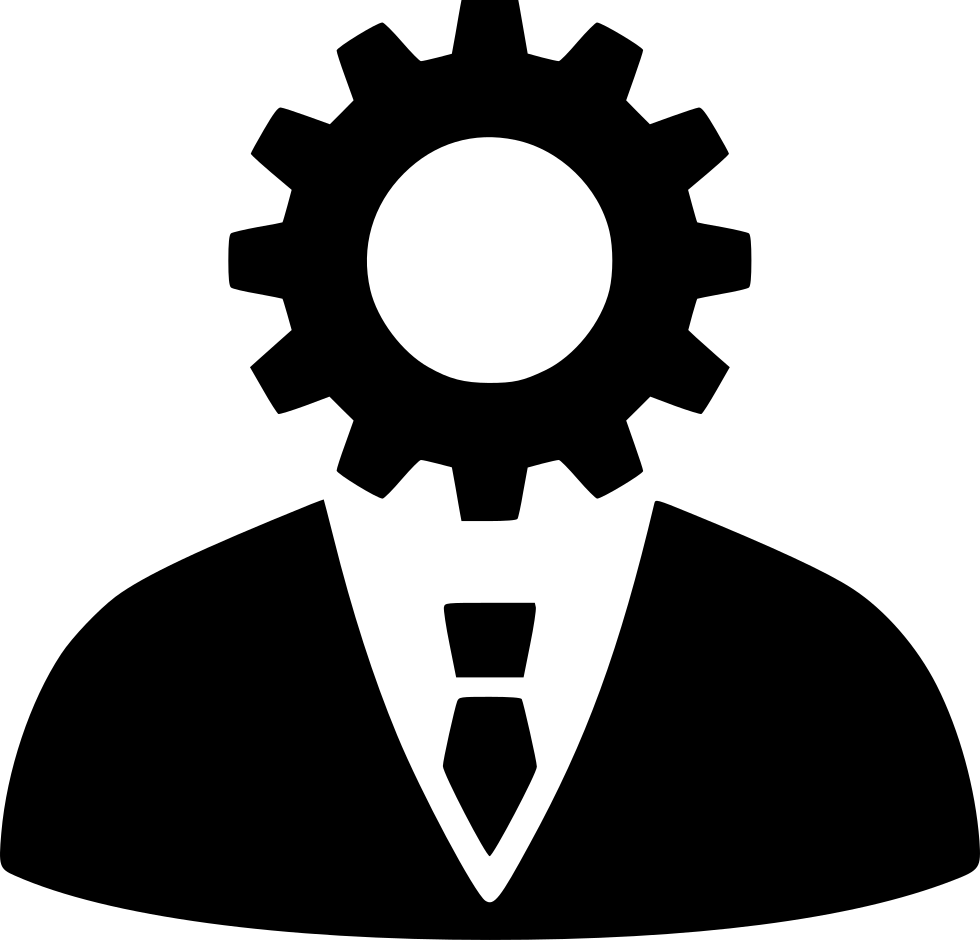
*Employee*

* manage a firm ( update )
* manage the firms employees (add/update/remove)
* get information (charts , notifications) about employees

*Employer*

* 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 firms (add/remove)
* manage employers (add/remove)
* manage security staff (add/remove)
* get information (charts, notifications) about firms

*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
* firm\_id
* has\_access
* checked\_in
* checked\_out
* on\_vacation

Employers

* id
* name
* password
* firm\_id
* admin\_id
* has\_access

Administrators

* id
* name
* password

Securitymembers

* id
* name
* password
* admin\_id
* system\_opened
* system\_locked

Firms

* id
* name
* admin\_id

8. Database relations ( Eloquent)

* an employee belongsTo a firm
* a firm hasMany employees
* an employer hasOne firm
* a firm hasMany employers
* an employee hasMany employers Through firm
* a firm hasOne administrator
* an employer hasOne administrator
* a security member hasOne administrator
* an administrator belongsToMany firms
* an administrator belongsToMany employers
* an administrator belongsToMany security members

9. Database Schema Design

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

