

# Energy Management For Homes

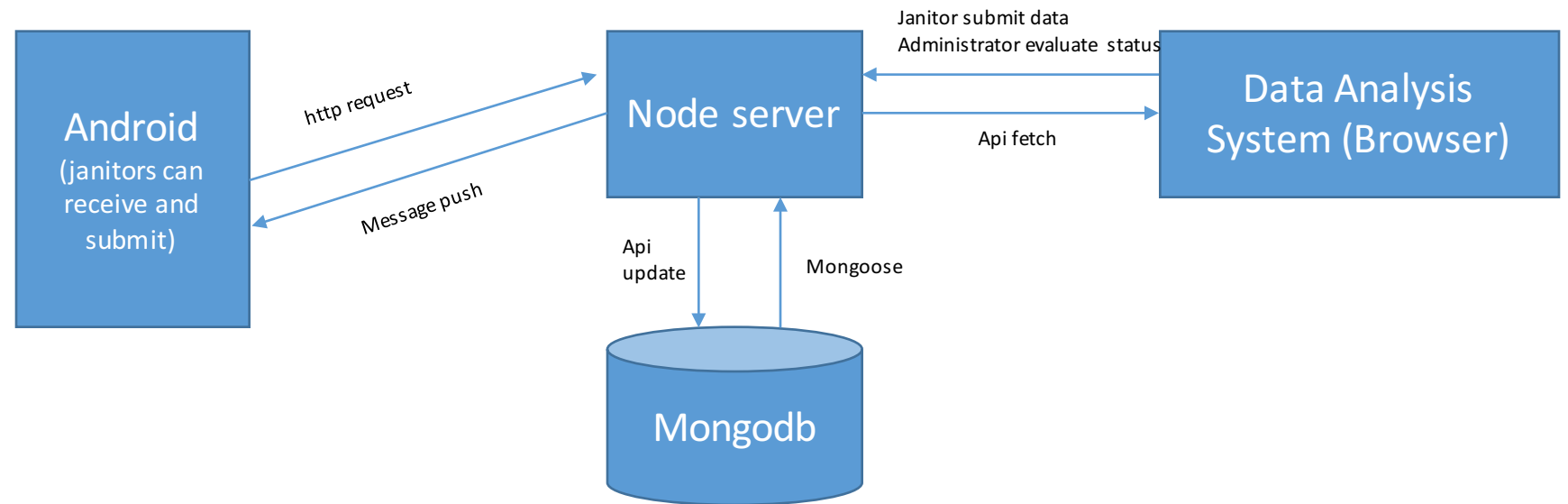
SD-sketchv01

Mengyang Chen

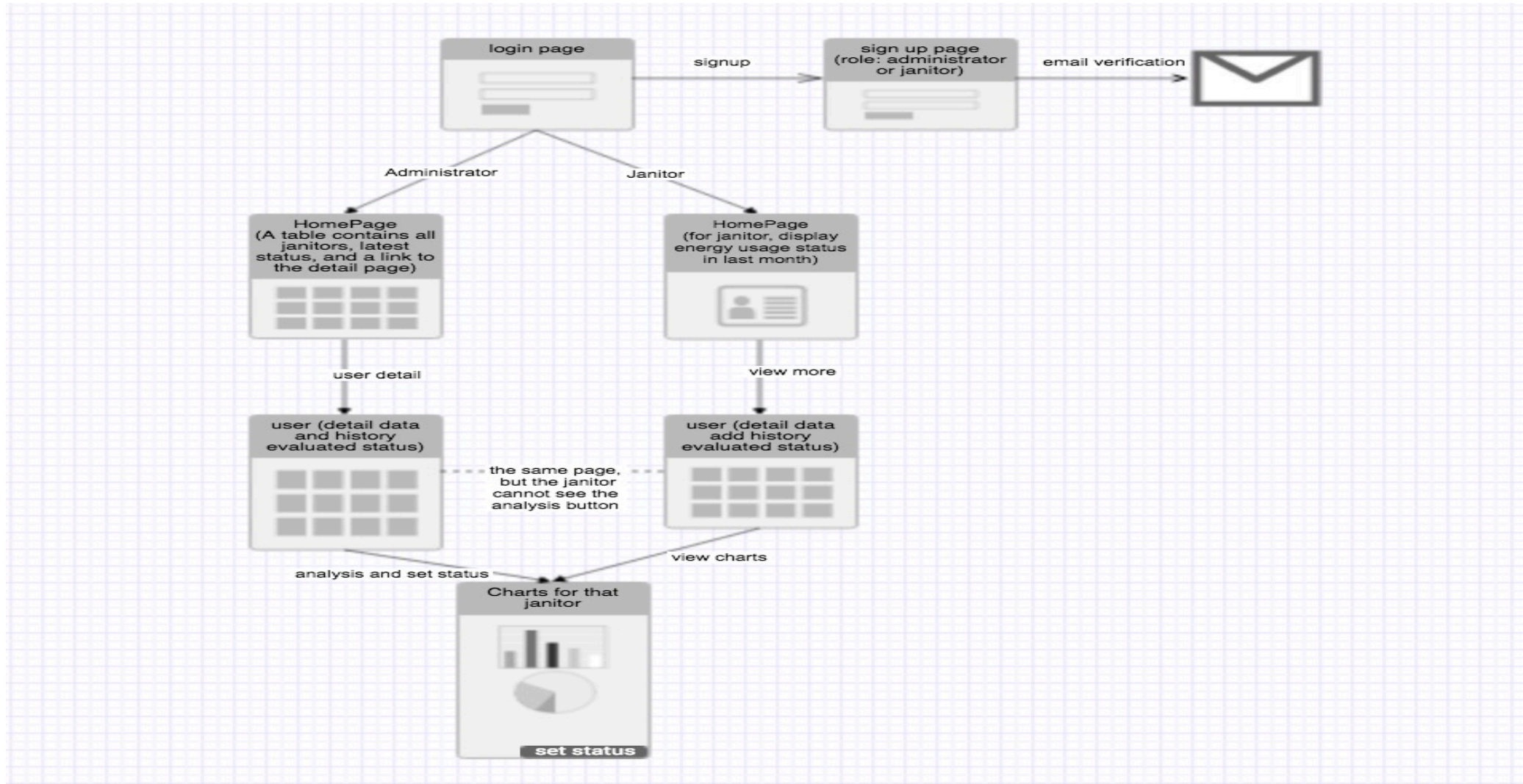
29-10-2016

# 1. Solution Architecture

- BS & Mobile

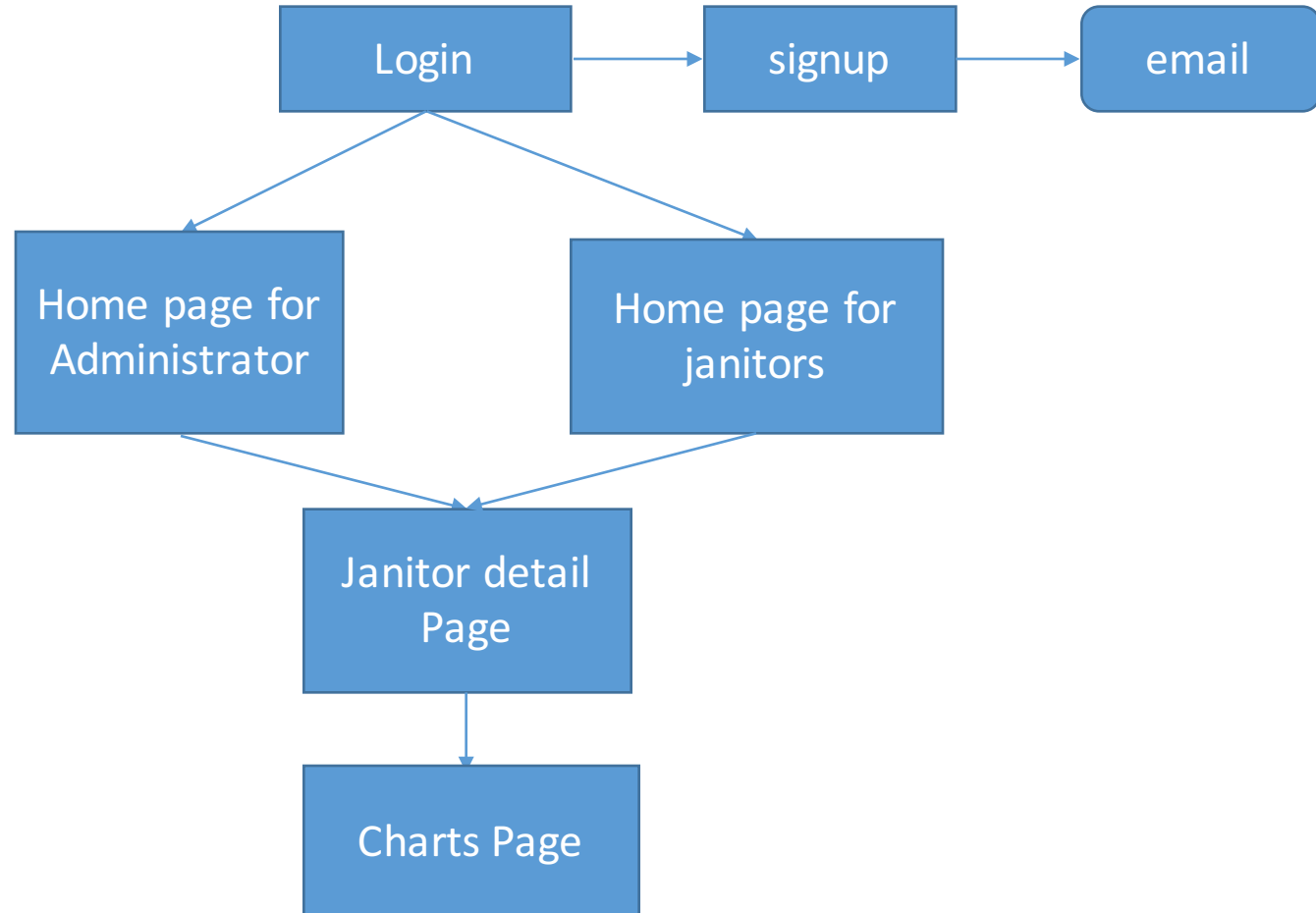


## 2. Sitemap of Data Analysis System



## 2. Sitemap of Data Analysis System

- Concise version:



## 2.1 Login page

- 2.1

**Energy Management System**

Account:

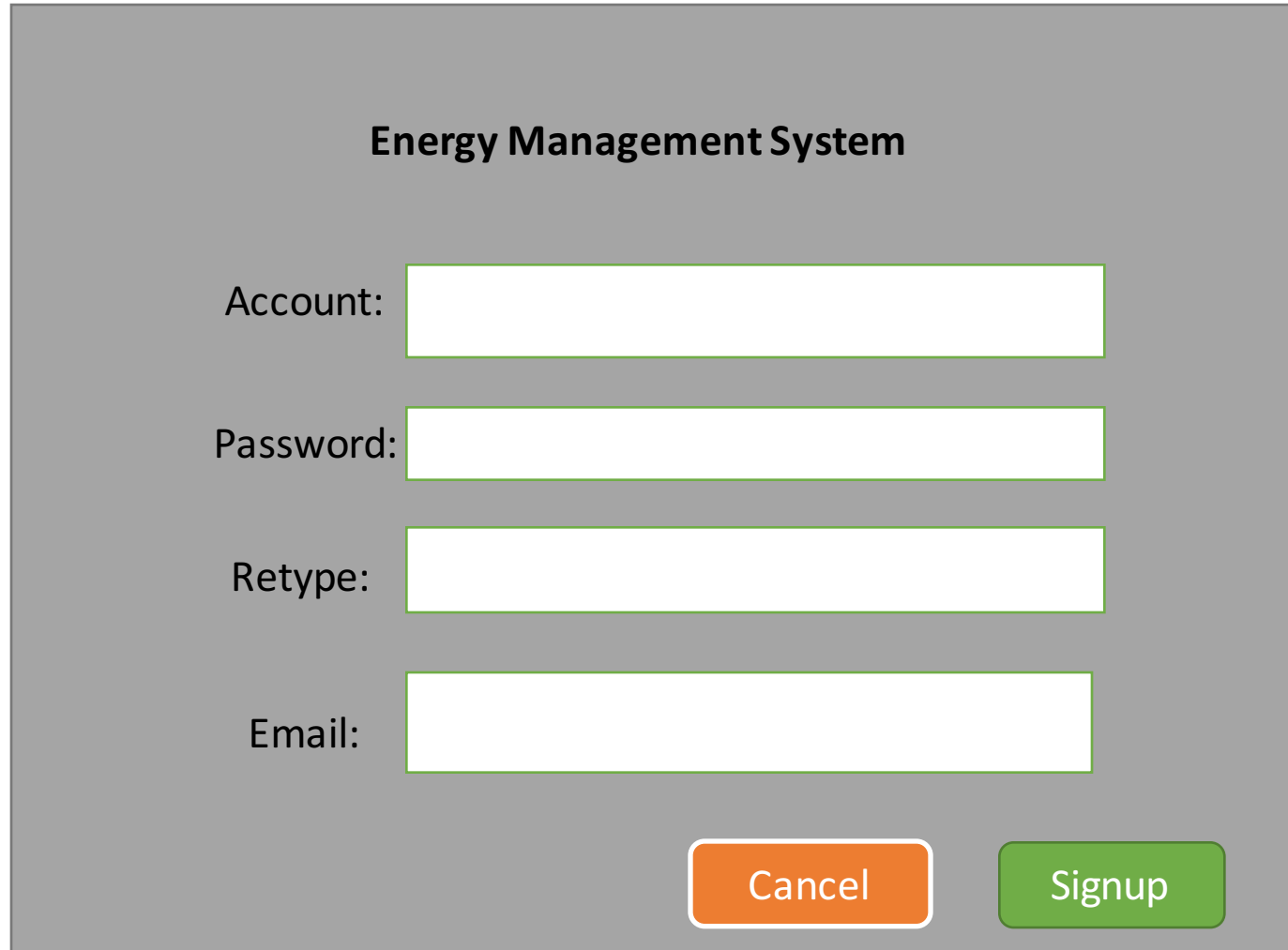
Password:

[Forgot password?](#)

[Sign up](#) – It takes only 30 seconds

## 2.2 Signup Page

- 2.2



The image shows a web form titled "Energy Management System" for user registration. It features four input fields: "Account:", "Password:", "Retype:", and "Email:". Each field is a white rectangle with a thin green border. At the bottom right, there are two buttons: an orange "Cancel" button and a green "Signup" button, both with rounded corners and white text.

**Energy Management System**

Account:

Password:

Retype:

Email:

## 2.3 Homepage for Administrators

- 2.3 This page should list all janitors' status for current month

DashboardDetailLogout

Welcome, admin1

Janitor	Status	More
user2	Unsubmitted	<a href="#">Remind</a>
user3	Unsubmitted	<a href="#">Remind</a>
user4	Not evaluated	<a href="#">Check</a>
user5	Alert	<a href="#">Check</a>
user6	Ok	<a href="#">Check</a>

prev

next

## 2.3 Home page for Janitors

- 2.3 The janitor's homepage should list his/her own data for the current month, he/she can also submit data here if not yet.

[Dashboard](#) [History](#) [Charts](#) [Logout](#)

Welcome, user2

System Alert: Please submit your electricity data for Oct-2016 X

Your energy data for 10-2016:

Janitor	keyword	value	Status	More
user2	heater	12	ok	<a href="#">save</a>
user2	water	10	warning	<a href="#">save</a>
user2	electricity		Not evaluated	<a href="#">save</a>



## 2.4 Janitor detail(History) page

- 2.4 Janitor can view his/her history data

[Dashboard](#) [History](#) [Charts](#) [Logout](#)

Welcome, user2

date ▲	keyword ▲	value	Status ▲	Remarks
09-2016	heater	20	ok	
09-2016	water	11	warning	
09-2016	heater	20	ok	
08-2016	water	11	warning	
08-2016	electricity	19	ok	

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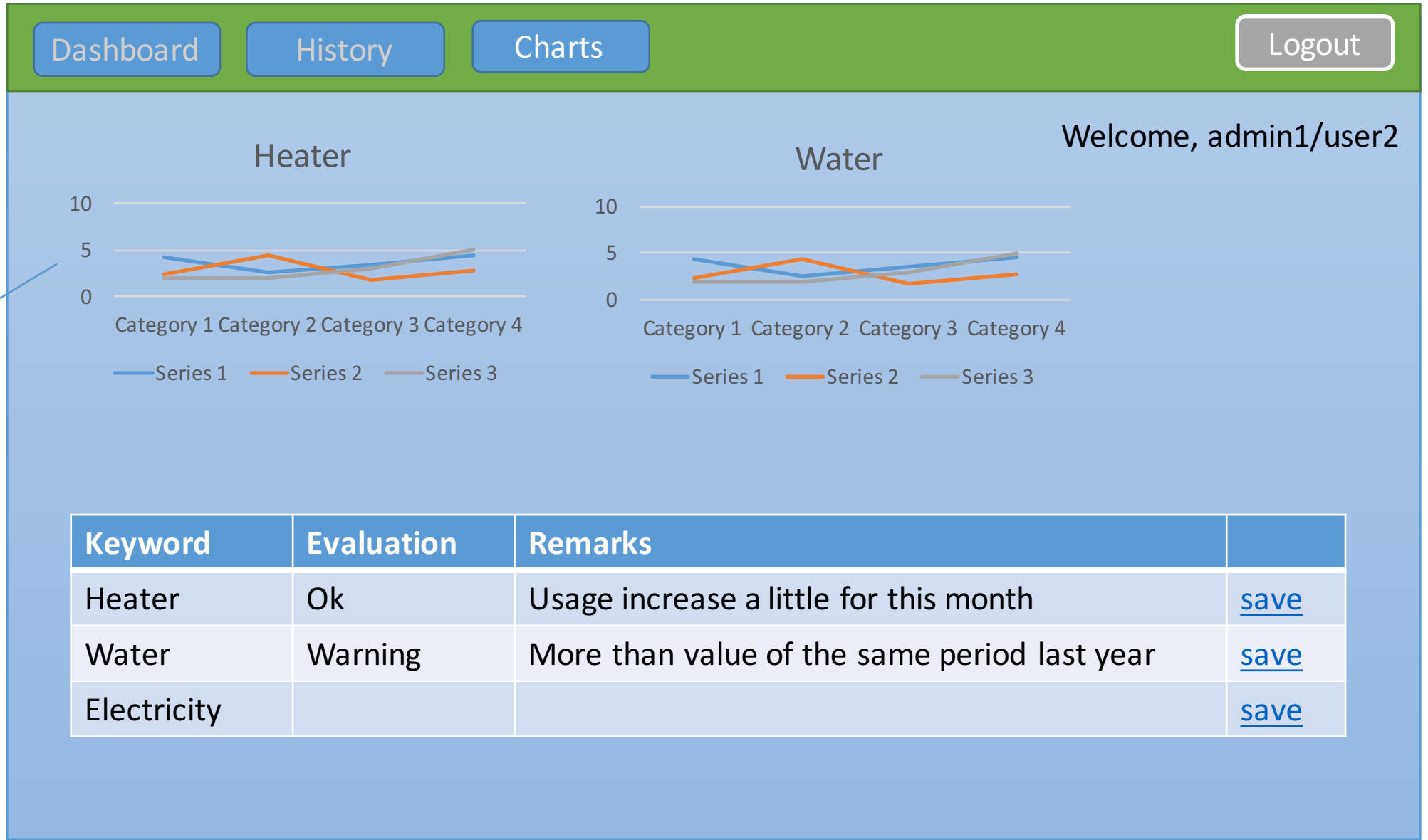
## 2.5 Charts page

- 2.5 This page can be view by administrator & janitor.
  - Administrator can see the table used for submit evaluation result below the charts while the janitor can not see.
  - Administrator can do the evaluation and write remarks, once save, the janitor can see these info on the dashboard. (It can also push message to mobile app)

## 2.5 Charts page

- 2.5

What kind of charts we should provide here so the customers can evaluate base on them?



# 3.1 Mobile Phone App Design

- Reason:
  - 1. The janitors only care about the result (ok/not ok)?
  - 2. Then it is much more easier to check&submit on cellphone
  - 3. Message can be push to the app when new evaluations done
    - when there is an alert/warning evaluation
    - when janitor forgot to submit data

## 3.2 Mobile App sketch

