

Energy Management For Homes

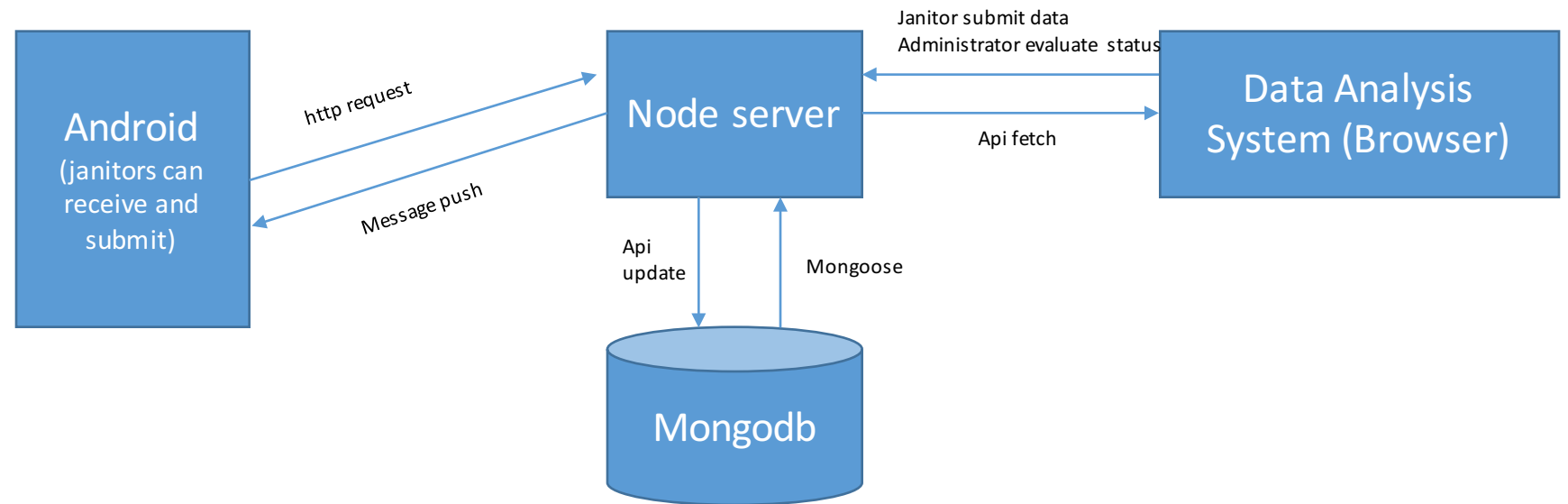
SD-sketchv01

Mengyang Chen

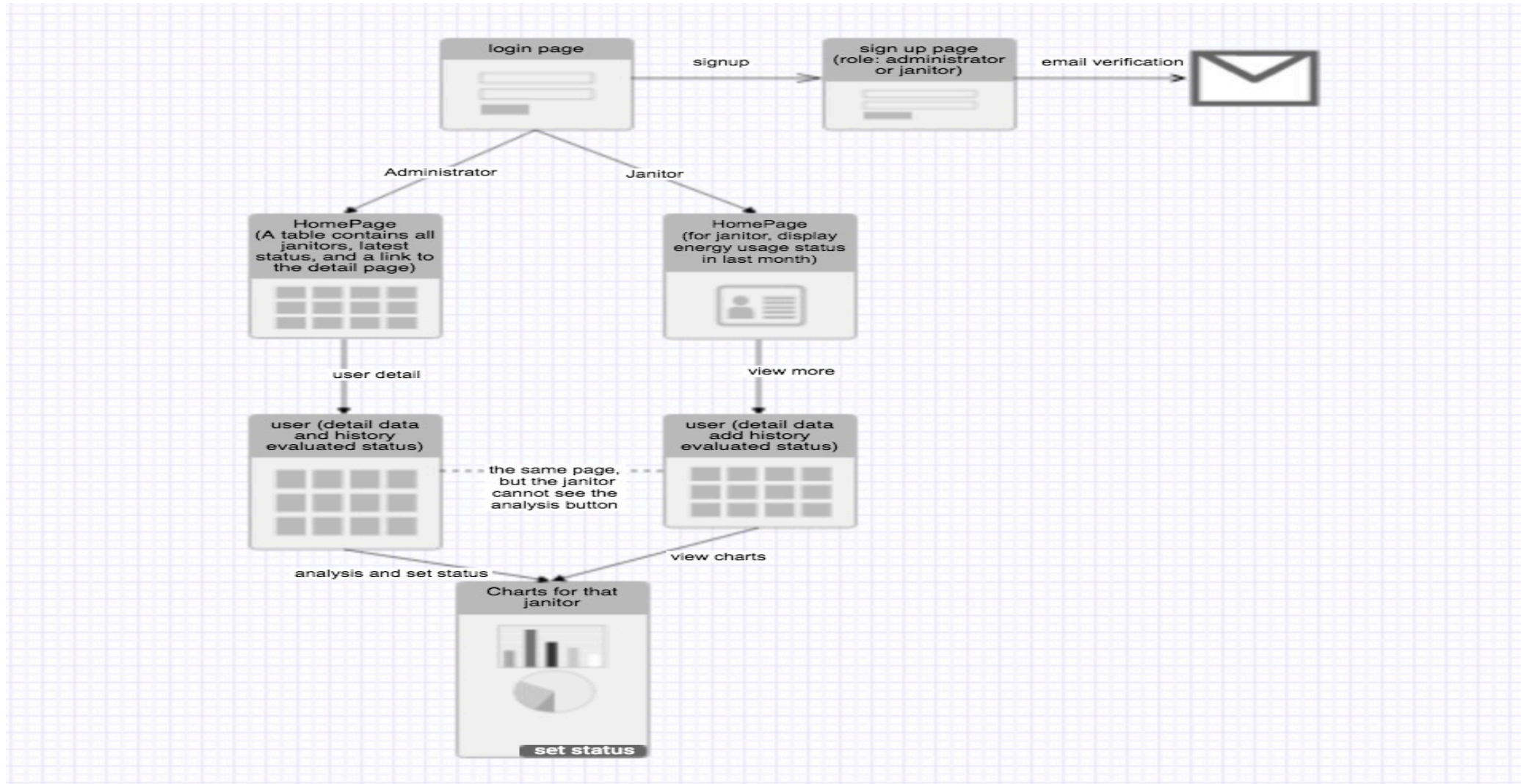
29-10-2016

1. Solution Architecture

- BS & Mobile

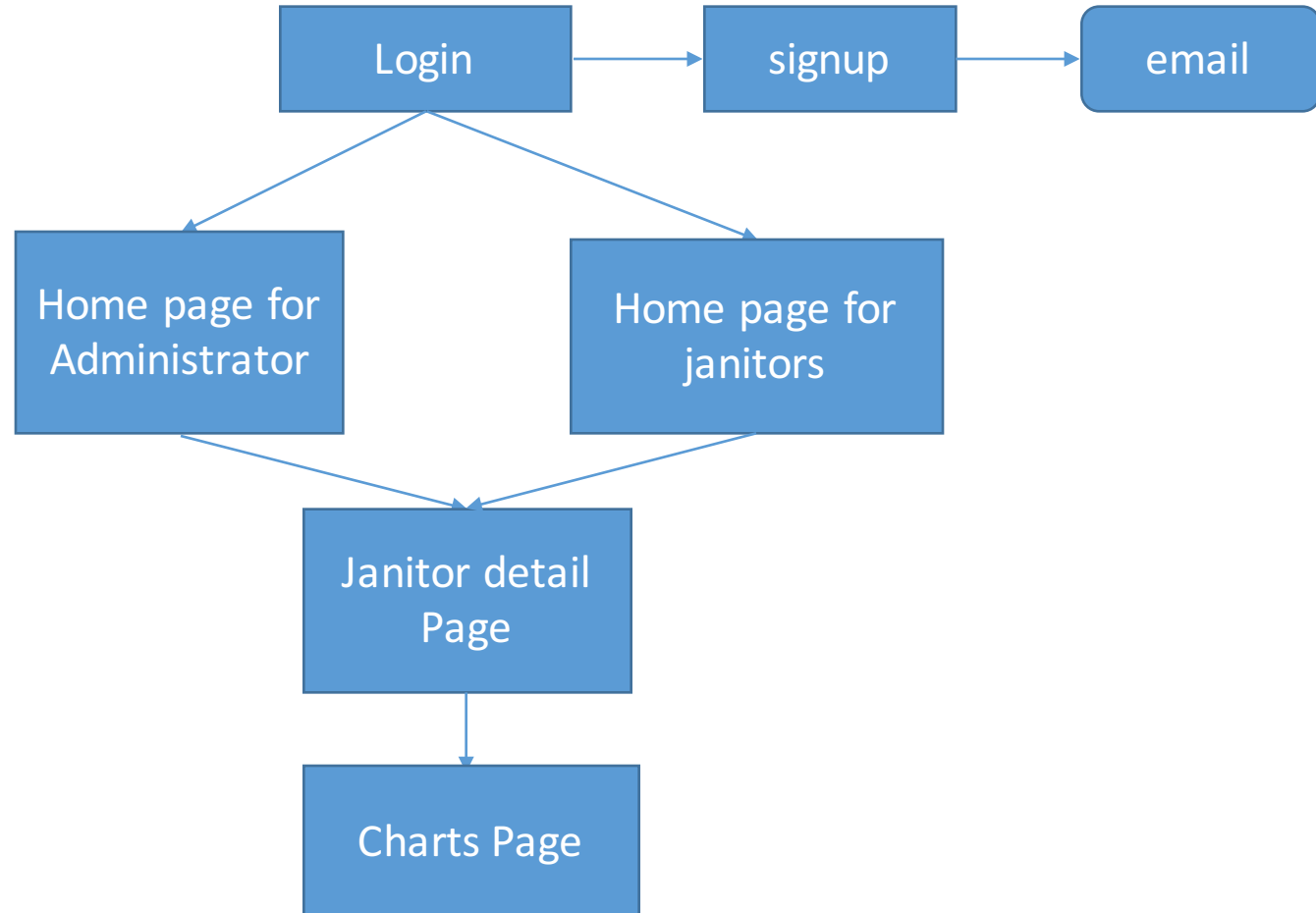


2. Sitemap of Data Analysis System



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- Concise version:



2.1 Login page

- 2.1

Energy Management System

Account:

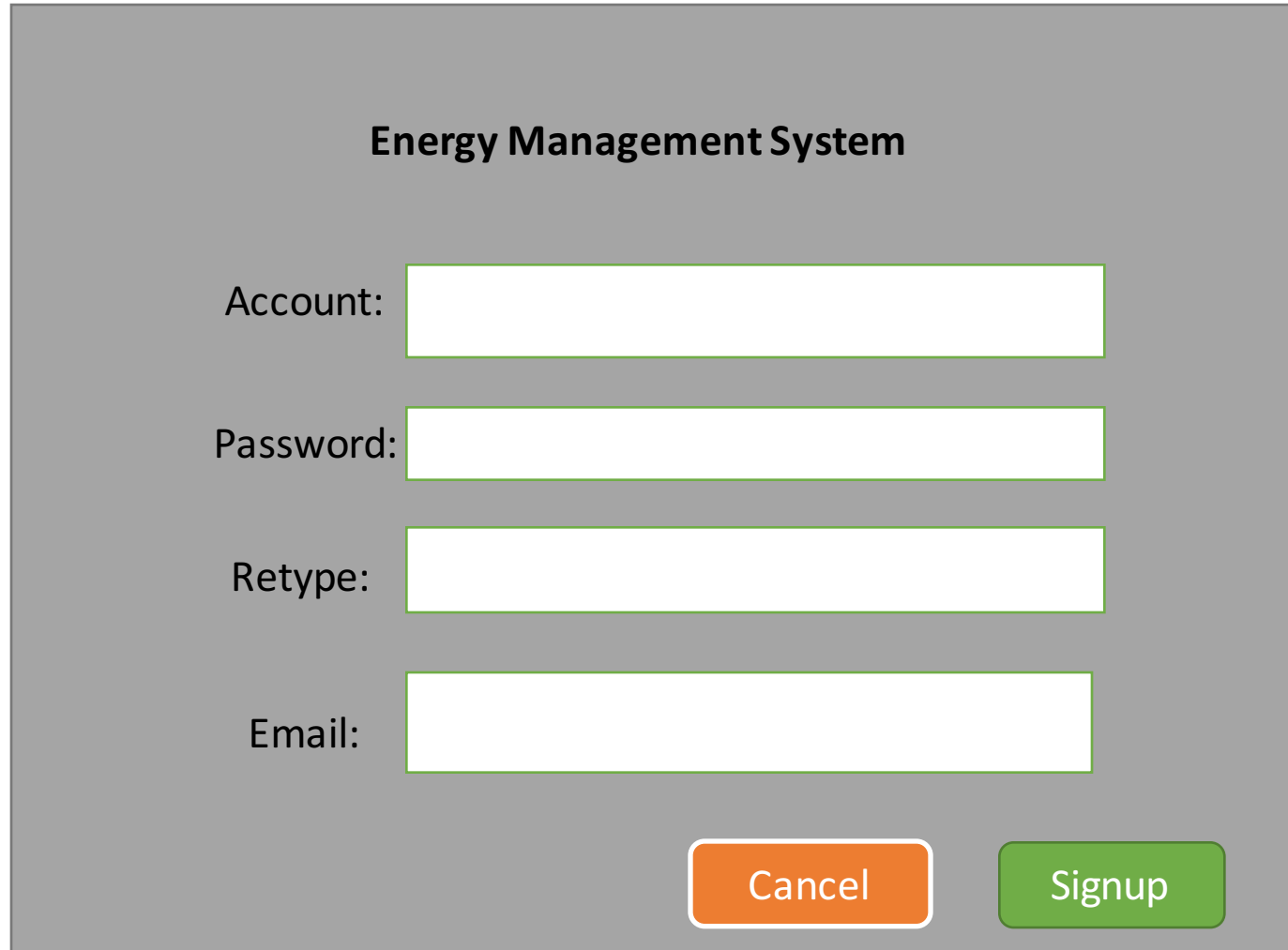
Password:

[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 green border. At the bottom right, there are two buttons: an orange "Cancel" button and a green "Signup" button.

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	Remind
user3	Unsubmitted	Remind
user4	Not evaluated	Check
user5	Alert	Check
user6	Ok	Check

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	save
user2	water	10	warning	save
user2	electricity		Not evaluated	save

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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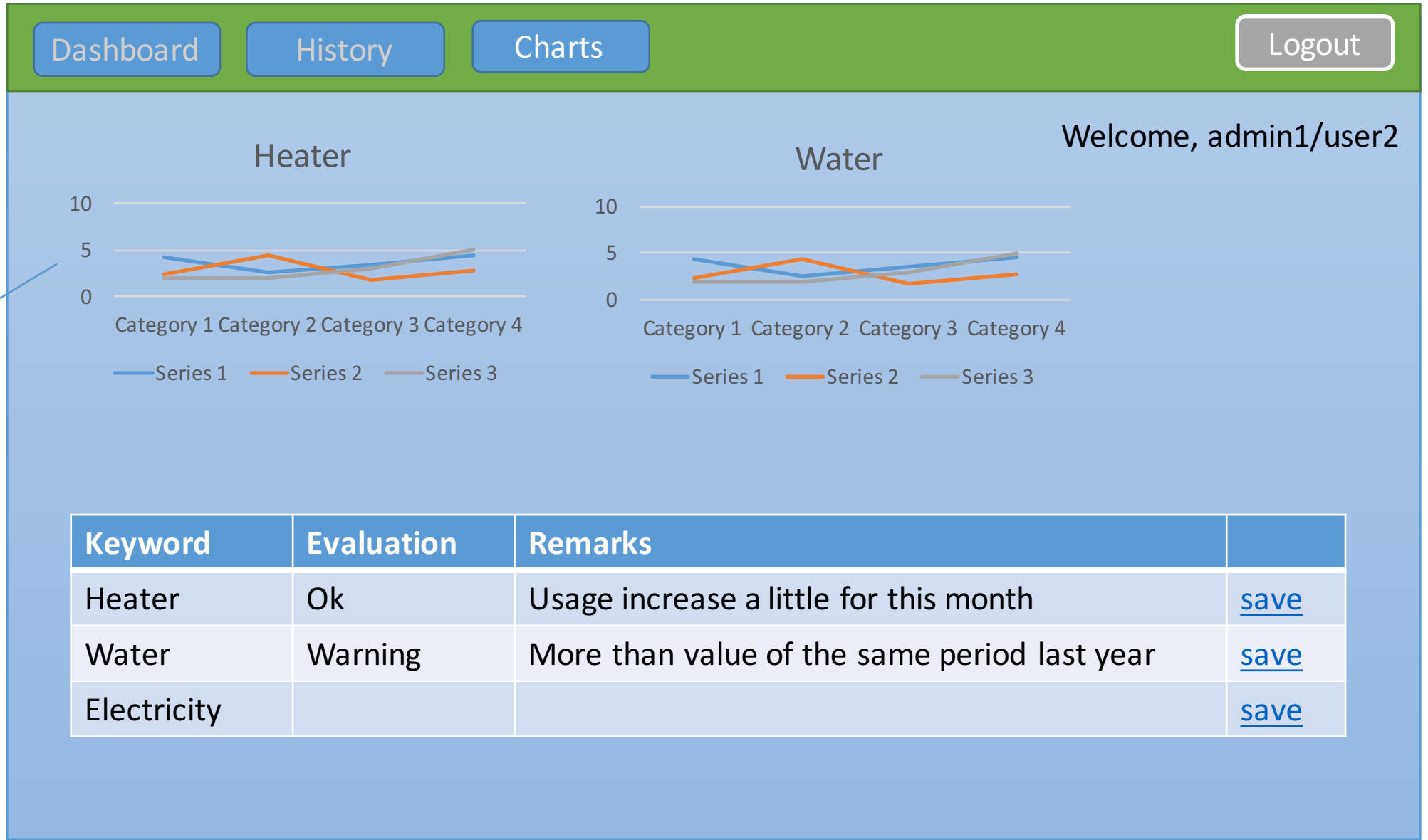
2.5 Charts page

- 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

