



UNIVERSITY  
of  
GREENWICH

## Coursework Title:

**Course: COMP1640 Enterprise Web Software Development**

**Due date: 12<sup>th</sup> April 2018**

**Student Name: Nguyen Ngoc Chan**

**Student ID: GT60826**

COLLECTING IDEAS MANAGEMENT SYSTEM		
Group members	Nguyen Ngoc Chan	Scrum Master, Tester
	Hoang Ngan Giang	Developer, DB
	Tran Hoang Long	Developer, DB
	Trieu Phu Vinh	Developer, Tester
	Doan Dinh Huy	Developer, Designer
Teacher	To Hoai Viet	

URL for the Screencast:

<https://drive.google.com/open?id=1hhG8lakT5zDHJVasPwQt3jYs7vycl5ui>

URL for the source code:

<https://github.com/kenguyen01/blogapplication>

URL for group document:

[https://drive.google.com/file/d/1X9XebNf6t1i\\_btyqbmw6\\_BX\\_yf63T5N-/view?usp=sharing](https://drive.google.com/file/d/1X9XebNf6t1i_btyqbmw6_BX_yf63T5N-/view?usp=sharing)

## I. Introduction

This is a report about the developing of web application, product, self - evaluation and team working evaluation. Based on the requirements of coursework, we create a web application which can perform features such as collecting ideas from users, users can also add comment on each idea, thumb up when they like it and thumb down when they dislike it. The development methodology we use in this project is SCRUM methodology.

SCRUM is a software development method that shows how the team works effectively to create a software product. The main principle is to split the software to produce a small part to develop (these parts have to read and release), get customer comments and change accordingly during the feedbacks. This will ensure that the release product meets what the customer expects.

SCRUM is based on the nature of the developer so it is easy to understand, easy to apply, creates high interactivity among programmers in the team and creates good products together. Instead of being imposed from the outside.

Role	Username	Password	Department
Admin	admin	123	
QA manager	manager	123	
QA coordinator	coordinator1	123	Software Engineering
QA coordinator	coordinator2	123	Finance
QA coordinator	coordinator3	123	Banking
QA coordinator	coordinator4	123	Foreign Language
Student	student1	123	Software Engineering
Student	student2	123	Finance
Student	student3	123	Banking
Student	student4	123	Foreign Language

## II. Evaluation

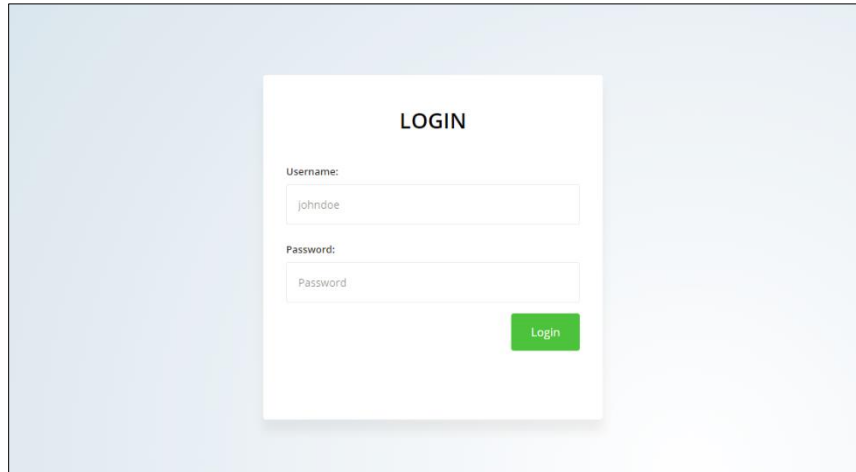
Working together, our team has created a web application which performs fully features in the requirements. I can evaluate the product as below:

- Template: 95%
- Functions: 90%

- Perform: 95%
- In time: 100%

The evidence is shown below:

## 1. Product



LOGIN

Username:  
johndoe

Password:  
Password

Login

**Login Page**



Carlynn Taberer (Logout)

Create

ID	NAME	ROLE	EDIT
22	Huynh Anh	student	Edit
21	Tran Long	student	Edit
20	Nguyen Chan	student	Edit
19	Heather Kores	student	Edit
18	Art Ohrt	student	Edit

Choose File No file chosen

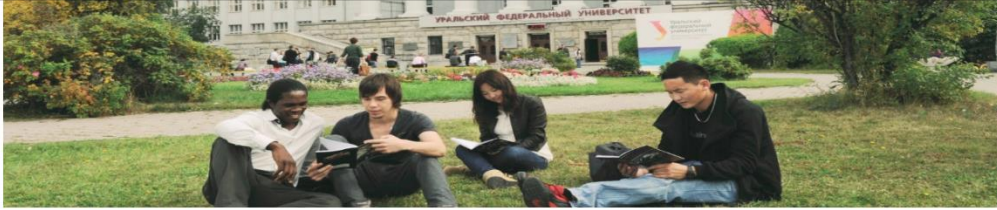
Import

1

2

Next

## Admin Home Page



#### Baird Fraczek (Logout)

Home Page  
Most Popular  
Most Viewed  
Latest Ideas

#### Tags

Events Holidays  
Studying Equipments

#### QA Manager

Tags  
Download  
Statistics

16-FEB-2017 - 00:00:00

#### Reverse-engineered 24 hour matrices

In lectus pellentesque at nulla suspendisse potenti cras in ...

[Read more...](#)

Susan Arrandale 16 Views 1 Comments 0 Thumbs Up 0 Thumbs Down

05-MAR-2018 - 13:16:36

#### qa manager add idea

The platform SDKs mentioned above refer to the software deve...

[Read more...](#)

Baird Fraczek 11 Views 1 Comments 0 Thumbs Up 0 Thumbs Down

05-MAR-2018 - 08:09:44

#### Once installed, move on to the next step where you will create your first PhoneGap app using the tool you selected in step 1.

The platform SDKs mentioned above refer to the software deve...

[Read more...](#)

Rachael Valentine 6 Views 1 Comments 0 Thumbs Up 0 Thumbs Down

05-MAR-2018 - 08:09:07

#### Once installed, move on to the next step where you will create

The platform SDKs mentioned above refer to the software deve...

[Read more...](#)

Rachael Valentine 5 Views 1 Comments 0 Thumbs Up 0 Thumbs Down

16-MAR-2018 - 10:28:00

#### aa

aa...

[Read more...](#)

Baird Fraczek 0 Views 0 Comments 0 Thumbs Up 0 Thumbs Down

1 2

Next

#### ABOUT US

We work in collaboration with our Students Union and with students in a range of ways to enable them to understand and apply sustainability in their learning, research and lives.

#### TAGS

Events  
Holidays  
Studying  
Equipments

#### FEATURES

Home Page  
Most Popular  
Most Viewed  
Latest Ideas

#### OUR CONTACTS

795 Folsom Ave, Suite 600,  
San Francisco, CA 94107 795  
(+123) 456 7890  
(+123) 456 7891  
info@gr.ac.com  
www.gr.ac.com

## QA Manager Home Page



#### Renate Gashion (Logout)

Home Page  
Most Popular  
Most Viewed  
Latest Ideas

#### Tags

Events Holidays  
Studying Equipments

#### Coordinator Manager

Ideas Management  
Comment Management

16-FEB-2017 - 00:00:00

#### Reverse-engineered 24 hour matrices

in lectus pellentesque at nulla suspendisse potenti cras in ...

[Read more...](#)

Susan Arrandale 16 Views 1 Comments 0 Thumbs Up 0 Thumbs Down

05-MAR-2018 - 08:09:57

#### Once installed, move on to the next step where you will create

The platform SDKs mentioned above refer to the software deve...

[Read more...](#)

Rachael Valentine 5 Views 1 Comments 0 Thumbs Up 0 Thumbs Down

16-MAR-2018 - 10:28:00

#### aa

aa...

[Read more...](#)

Baird Fraczek 0 Views 0 Comments 0 Thumbs Up 0 Thumbs Down

05-MAR-2018 - 08:00:44

#### Once installed, move on to the next step where you will create your first PhoneGap app using the tool you selected in step 1.

The platform SDKs mentioned above refer to the software deve...

[Read more...](#)

Rachael Valentine 0 Views 1 Comments 0 Thumbs Up 0 Thumbs Down

05-MAR-2018 - 13:16:36

#### qa manager add idea

The platform SDKs mentioned above refer to the software deve...

[Read more...](#)

Baird Fraczek 11 Views 1 Comments 0 Thumbs Up 0 Thumbs Down

1 2

Next

#### ABOUT US

We work in collaboration with our Students Union and with students in a range of ways to enable them to understand and apply sustainability in their learning, research and lives.

#### TAGS

Events  
Holidays  
Studying  
Equipments

#### FEATURES

Home Page  
Most Popular  
Most Viewed  
Latest Ideas

#### OUR CONTACTS

795 Folsom Ave, Suite 600,  
San Francisco, CA 94107 795  
(+123) 456 7890  
(+123) 456 7891  
info@gr.ac.com  
www.gr.ac.com

## QA Coordinator Manager Home Page



Raimondo Rannigan  
(Logout)

- Home Page
- Most Popular
- Most Viewed
- Latest Ideas

## Tags

Events  
Holidays  
Studying  
Equipments

05-MAR-2018 - 08:00:44

Once installed, move on to the next step where you will create your first PhoneGap app using the tool you selected in step 1.

The platform SDKs mentioned above refer to the software deve...

[Read more...](#)

Rachael Valentine 6 Views 1 Comments 0 Thumbs Up 0 Thumbs Down

16-MAR-2018 - 10:28:00

aa

.....

[Read more...](#)

Baird Fraczek 0 Views 0 Comments 0 Thumbs Up 0 Thumbs Down

16-FEB-2017 - 00:00:00

### Reverse-engineered 24 hour matrices

in lectus pellentesque at nulla suspendisse potenti cras in ...

[Read more...](#)

Susan Arrandale 16 Views 1 Comments 0 Thumbs Up 0 Thumbs Down

05-MAR-2018 - 13:16:36

qa manager add idea

The platform SDKs mentioned above refer to the software deve...

[Read more...](#)

Baird Fraczek 11 Views 1 Comments 0 Thumbs Up 0 Thumbs Down

05-MAR-2018 - 08:09:07

Once installed, move on to the next step where you will create

The platform SDKs mentioned above refer to the software deve...

[Read more...](#)

Rachael Valentine 5 Views 1 Comments 0 Thumbs Up 0 Thumbs Down

1 2

Next

## ABOUT US

We work in collaboration with our Students Union and with students in a range of ways to enable them to understand and apply sustainability in their learning, research and lives.

- Events
- Holidays
- Studying
- Equipments

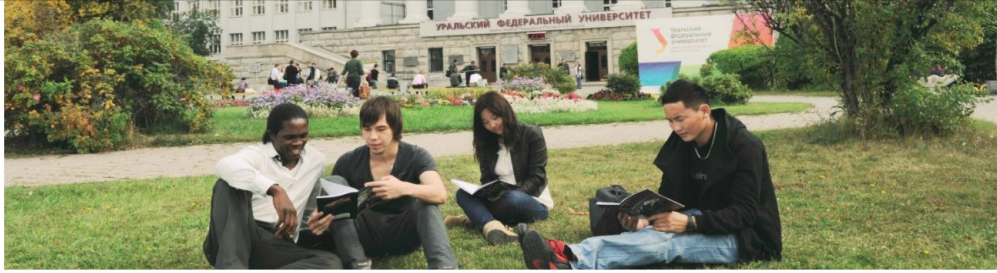
## FEATURES

- Home Page
- Most Popular
- Most Viewed
- Latest Ideas

## OUR CONTACTS

795 Folsom Ave, Suite 600,  
San Francisco, CA 94107 795  
(+123) 456 7890  
(+123) 456 7891  
info@gr.ac.com  
www.gr.ac.com





Raimondo Rannigan (Logout)

Home Page

Most Popular

Most Viewed

Lastest Ideas

#### Tags

Events

Holidays

Studying

Equipments

#### New Idea

Compose

## NEW IDEA

Title:

johnndoe

Tag: Events

Choose File No file chosen

☐ Anonymous

Content:

Your message

#### Terms and Conditions:

1. The Intellectual Property disclosure will inform users that the contents, logo and other visual media you created is your property and is protected by copyright laws.
2. A Termination clause will inform that users' accounts on your website and mobile app or users' access to your website and mobile (if users can't have an account with you) can be terminated in case of abuses or at your sole discretion.
3. A Governing Law will inform users which laws govern the agreement. This should be the country in which your company is headquartered or the country from which you operate your

☐ I agree

Add

#### ABOUT US

We work in collaboration with our Students Union and with students in a range of ways to enable them to understand and apply sustainability in their learning, research and lives.

#### TAGS

Events

Holidays

Studying

Equipments

#### FEATURES

Home Page

Most Popular

Most Viewed

Latest Ideas

#### OUR CONTACTS

795 Folsom Ave, Suite 600,  
San Francisco, CA 94107 795

(+123) 456 7890

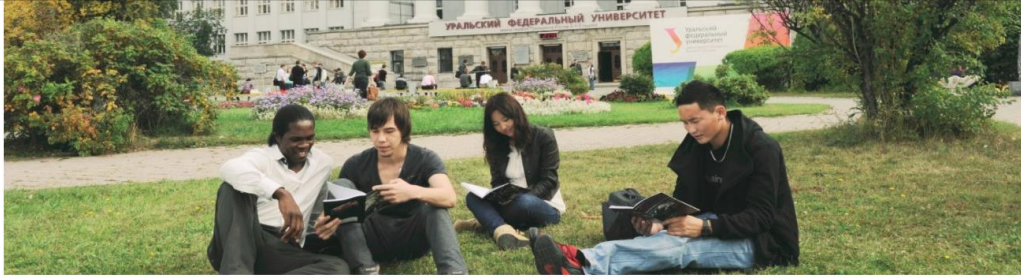
(+123) 456 7891

info@gr.ac.com

www.gr.ac.com

## Add New Idea Page





Raimondo Rannigan (Logout)

Home Page

Most Popular

Most Viewed

Lastest Ideas

#### Tags

Events

Holidays

Studying

Equipments

#### New Idea

Compose

05-MAR-2018 - 08:00:44

Once installed, move on to the next step where you will create your first PhoneGap app using the tool you selected in step 1.

The platform SDKs mentioned above refer to the software development kits Apple, Google and Microsoft provide to build applications for their platforms (iOS, Android and Windows respectively). When you're ready to take your mobile application development further or decide you want to build for each platform locally yourself, you can find the specific instructions for each platform in the PhoneGap Platform Installation Guides.

👍 Thumbs Up

👎 Thumbs Down

Download attach file

Rachael Valentine 7 Views 1 Comments 0 Thumbs Up 0 Thumbs Down

#### COMMENTS

Rachael Valentine

05-Mar-2018 - 08:02:36

student id 9 comment idea id 31 test comment

#### ADD COMMENT

Your message

☐ Anonymous

ADD COMMENT

#### ABOUT US

We work in collaboration with our Students Union and with students in a range of ways to enable them to understand and apply sustainability in their learning, research and lives.

#### TAGS

Events

Holidays

Studying

Equipments

#### FEATURES

Home Page

Most Popular

Most Viewed

Latest Ideas

#### OUR CONTACTS

795 Folsom Ave, Suite 600,  
San Francisco, CA 94107 795

(+123) 456 7890  
(+123) 456 7891

info@gr.ac.com  
www.gr.ac.com

## Add Comment Page

- **Full features implementing**

Our group has develop a web role based application which performs features as required. Four roles have been built in the system:

1. Admin
  - Maintain system.
  - Add, edit staff members.
  - Add, edit students.
  - Import staff members, students from excel file.
  - Login, logout.
2. QA Manager
  - Add idea.
  - Add comment.
  - Add, edit, and remove tags.
  - Statistic report.
  - Download files.
  - View ideas and comments.
  - Thumb up, thumb down idea.
  - Login, logout.
3. QA Coordinator
  - Add idea.
  - Add comment.
  - Manage ideas, comments.
  - Thumb up, thumb down idea
  - View ideas and comments.
  - Login, logout.
4. Student
  - Add idea.
  - Add comment.
  - View ideas and comments.
  - Thumb up, thumb down idea.
  - Login, logout.

- **Easy to use**

The application is designed for users easy to use, it is also available on many devices such as PC, tablets, cellphones. Navigations on the application is design logically for users to interact with. Buttons are also designed with distinguish style, they are large enough for users' clickable. Text style and text size are used properly, headers are larger than other text, and users can easily obtain the information. Background color is chosen properly, it's suitable with the layout.

## **2. Process**

### *Sprint backlog (2.5 Group Document)*

According to works that have been set up in sprint backlog, to complete each sprint in time, I have to arrange works properly in order to finish task in time.

### *Product backlog (2.4 Group Document)*

In this phase, I have to determine which is important, and which is less important, what to be done first, after that, I have to finish them on time.

### *Meeting (2.3 Group Document)*

To finish my task, I have to attend all group meetings in order to check other members' working, give them right criteria for their task and also check my working, to be sure that my work is on the right way.

## **3. Team**

### **Hoang Ngan Giang**

He is a good programmer, he takes important works. He has finished tasks on time, and his task works properly without any errors. Moreover, he has a strong knowledge in programming, he is willing to help other members whenever they have trouble.

### **Tran Hoang Long**

He works with a high sense of responsibility, he always tries to finish his task on time. He always joins group meetings and frequently reports his work to team leader. In addition, he is a good listener, he always accepts ideas from others and learning from them.

### **Trieu Phu Vinh**

He is an active member of the team, always helps other members when they stuck with any task. He always present in all group meetings, suggests better ideas to finish the project properly. Besides that, he a good programmer, always finish his task before schedule and willing to take important tasks.

### **Doan Dinh Huy**

He is a creative person, he always has a better solutions for the team. With his strong skill in programming, he is always finish the tasks on time. Moreover, he also suggests build more functions to make the project become better. He joins every group meetings, and helps the team so much.

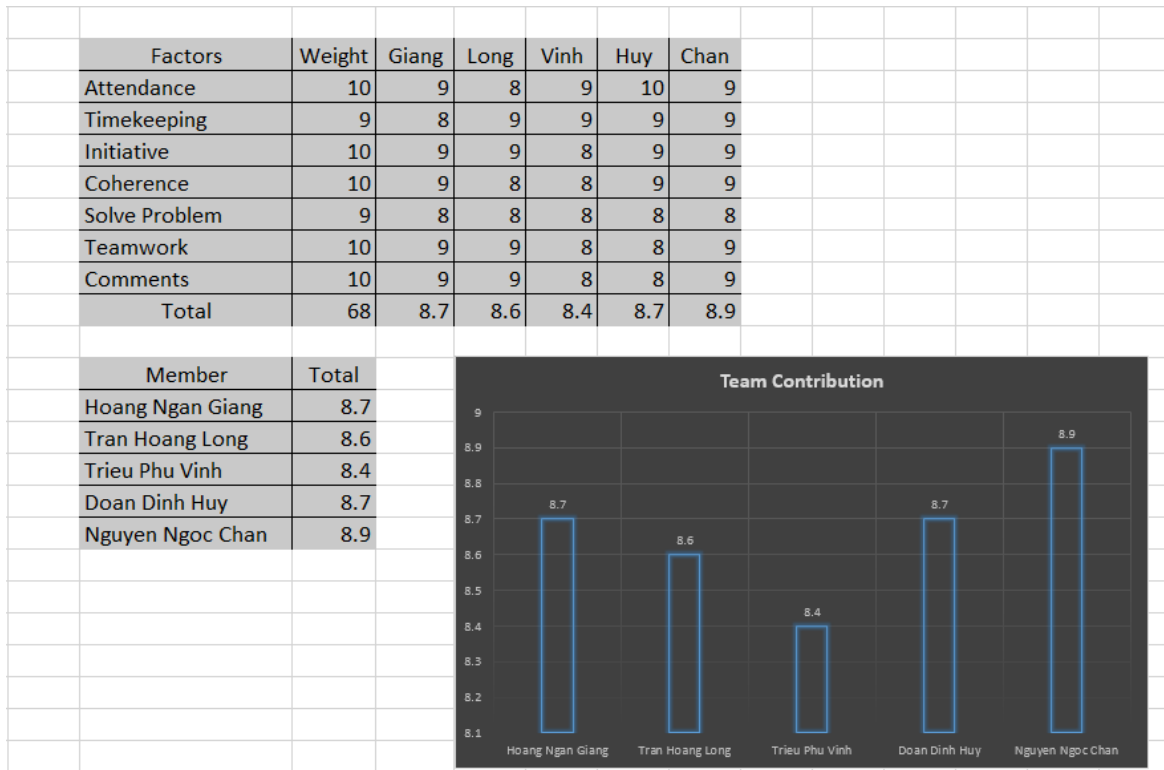


Figure 1

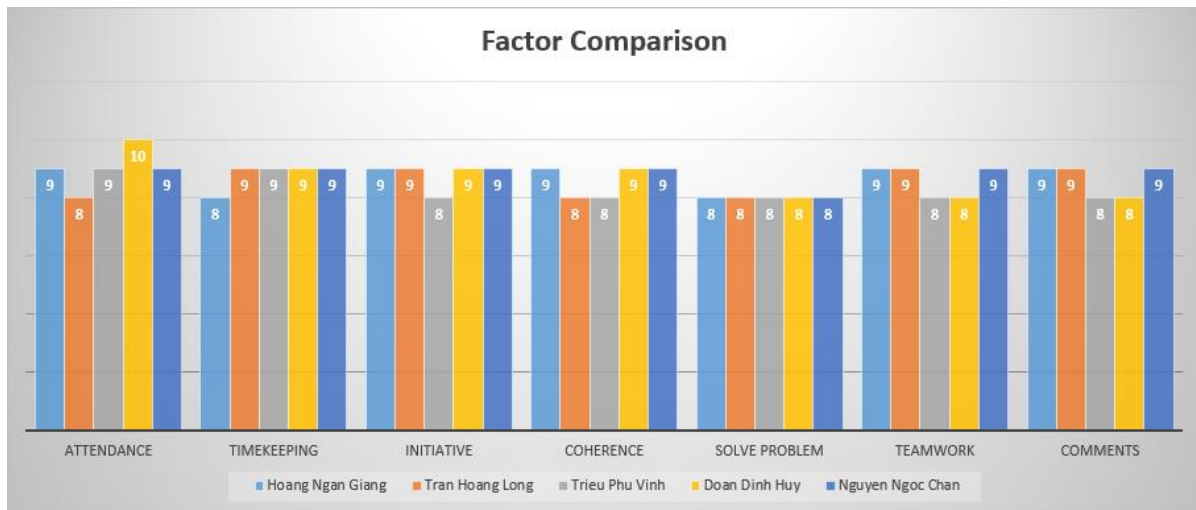


Figure 2

Based on the above score tables and charts, everyone in my team contributes positively to the whole project. Hoang Ngan Giang and Doan Dinh Huy have done a great job, they always suggest better solutions for the team, and always help other to overcome difficult tasks. On other hand, Tran Hoang Long and Trieu Phu Vinh also did a well contribution to the team, although they have some weak point, but they always try the best to finish tasks.

#### 4. Self – evaluation

In the application, I build functions of admin role, and statistics reports of QA manager

- Add, edit staff members.
- Add, edit students.
- Import staff members, students from excel file.
- Set closure date.
- Statistics report.
- Design database.

The screenshot displays the 'Admin Home Page' interface. At the top left, the user 'Carlynn Taberer' is logged in, with a '(Logout)' link. A 'Create' button is located at the top right. Below this is a table with four columns: 'ID', 'NAME', 'ROLE', and 'EDIT'. The table contains five rows of student data. Below the table, there is a 'Choose File' button, a text indicator 'No file chosen', and an 'Import' button. At the bottom right, there is a pagination control showing '1' of '2' pages and a 'Next' button.

ID	NAME	ROLE	EDIT
22	Huynh Anh	student	Edit
21	Tran Long	student	Edit
20	Nguyen Chan	student	Edit
19	Heather Kores	student	Edit
18	Art Ohrt	student	Edit

#### Admin Home Page

\*Instead of add new user manually, I also add function import users from excel file

Carlynn Taberer (Logout)

### ADD USER

Name:

johndoe

Email:

Role:

manager ▼

Department:

Software Engineering ▼

Add

## Add New User

\*Username and Password are automatically generated for users by the system and then username and password will be sent to users via email.

Carlynn Taberer (Logout)

### ADD USER

Name:

johndoe

Email:

Role:

manager ▼

Department:

Software Engineering ▼

Please fill all fields!

Add

## Validation

Carlynn Taberer (Logout)

EDIT USER

Name:

Tran Long

Email:

kenguyen01@live.com

Role:

student

Department:

Finance

Edit

### Edit User

\* Set up closure date: In this application, I set up closure date is 2018 – 04 – 03, three days before closure date (2018 – 03 – 31) users can add new idea and post comment on any idea. Before 2018 – 04 – 03 users can only post comment and can't add new idea. And finally, after 2018 – 04 – 03, users can not add new idea and post comment.



Tags

- Events   Holidays  
Studying   Equipments

QA Manager

- Tags  
Download  
Statistics

New Idea

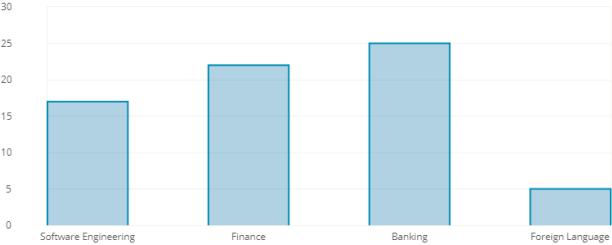
Compose

Ideas Chart



DEPARTMENT	IDEAS	PERCENTAGE
Software Engineering	10	31.25 %
Finance	8	25.0 %
Banking	10	31.25 %
Foreign Language	4	12.5 %

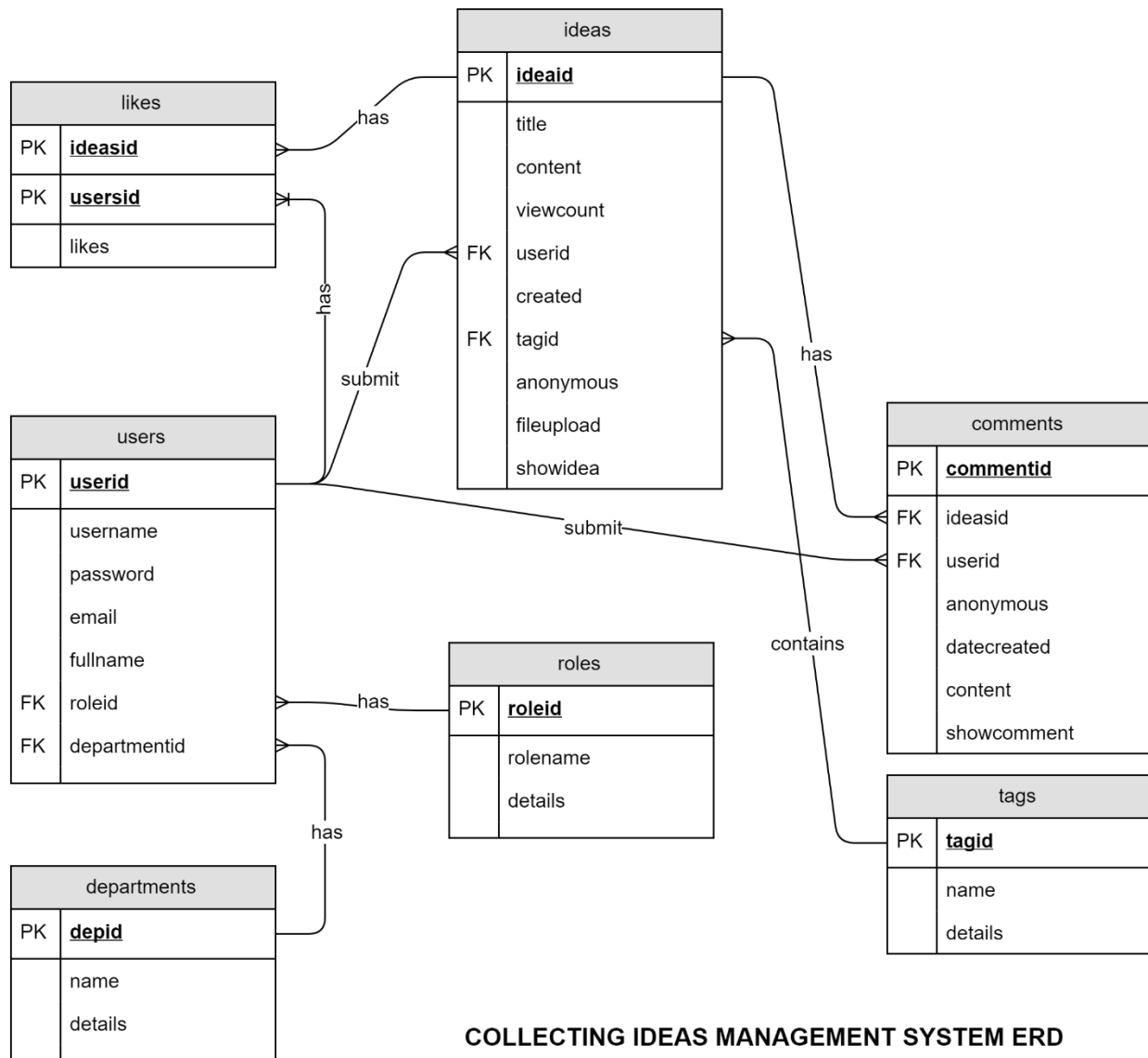
Contributors Chart



DEPARTMENT	CONTRIBUTORS	PERCENTAGE
Software Engineering	17	24.64 %
Finance	22	31.88 %
Banking	25	36.23 %
Foreign Language	5	7.25 %

Exception Report

Total number of ideas	34
Total number of ideas without comment	10
Total number of anonymous ideas	9
Total number of anonymous comments	14



COLLECTING IDEAS MANAGEMENT SYSTEM ERD

—\* 1 to Many Relation

### *Working*

As a SCRUM master of the group, I always give positive attitude in helping other member whenever they have difficult with their work, such as suggest better ideas, solutions for them or maybe make a meeting to find proper solutions. On the other hand, I have to divide tasks reasonably. Each member of the team has their strong points, I have to decide which tasks is suitable for every one of them and also decide the time box for each task carefully.

Moreover, I have to finish my tasks on time, besides the features from the requirements, I also added more features to make the application better.

### *Knowledge*

As a SCRUM master, I have to find the SCRUM attributes correctly. By doing this, it will improve the effect of the methodology such as increase the effect of group meetings, collecting member's ideas, analyze user requirements and problem solving.

### *Should and Shouldn't*

As a SCRUM master and team leader, I mention on member's working, some members may go the wrong way, in these cases, I have to cooperate with them, listen to their point of view and suggest them proper ideas, solutions. I am the one that connect the team members, be sure that all the members are doing the right thing, all the tasks are finished on time.

On the other hand, I try not to make a high press on the group, try not to give negative attitude, negative contribution to the group.

### *Decision*

I found that all SCRUM principles are not fit to our team, I decided to pick some SCRUM attributes that are suitable for our project. I picked Sprint Backlog, Product Backlog, Planning, etc...But in this case, I also customize these attribute that makes it more suitable for our team. For example, the Scrum Daily attribute, all team members have to do report about their work daily. I decided instead of group meeting to submit reports, we use Skype or Google Hangout, each meeting is now about 5 minutes and members can join it remotely. By this way, members will have more time to do their tasks.

### *Test*

I do testing on my own tasks, once do that, I have to understand the requirements clearly. Whenever I do testing each case, I have to ask myself many questions and answer for each that question.

By doing testing, I can realize my strong points and my weak points also. Whenever I have something not sure, I often look for ideas, solutions from other members who have more

experience than me. Listening to their opinion, applying to my tasks, I can be sure that all my works are on the right way and finish them correctly.

### **III. Conclusion**

Our team's final product, a role based web application, works correctly and meets most of the requirements. By applying Java Spring Framework, the security issues are guarantee. Applying the professional layout design as Bootstrap also make the application can run on multiple platforms. Applying SCRUM methodology to the development of the application, it helps a lot in improving the development process and finish all tasks on time. Do testing during the development process will save a lot of time and errors, bugs have less chance to occur. We have learnt so many things from this project and it is very useful for the future work.