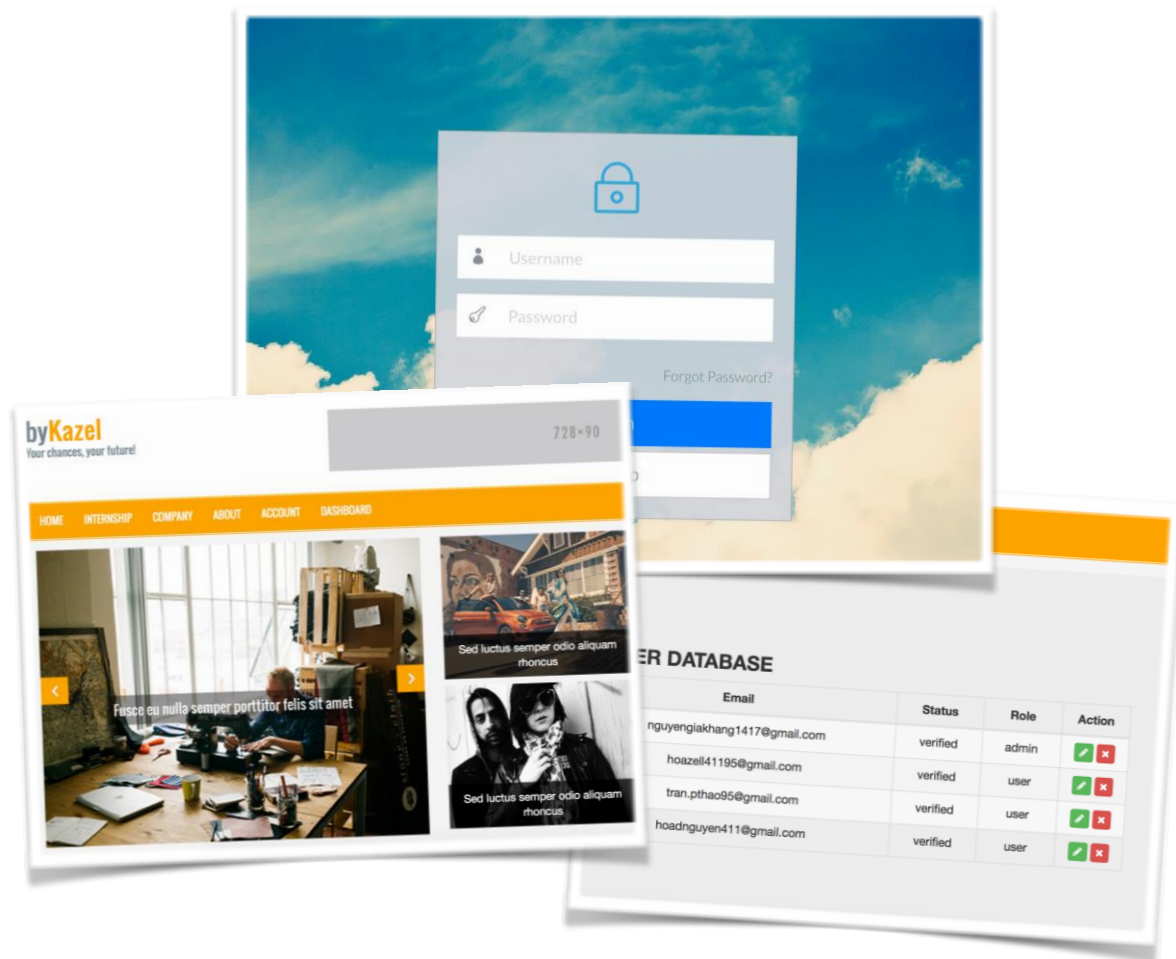


# INTERNSHIP MANAGEMENT WEBSITE

## Final Report



## WEB APPLICATION

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Nguyen Gia Khang (USTHBI4-072)

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# Introduction

The significant evolution of Internet in recent decades has brought us considerable advantages. Following that, the development of web and online services are also playing an essential role in many aspects of our life.

This assignment aims at developing a website which provides information about possibilities of internship for potential students. Particularly, one can access the site, login into his account or register if he does not have one. Once owning an account, users are able to manage his personal information (profile picture and other details).

## **Functionalities for users**

The main function of the website is to provide the students a abundant source of internships and university's partners. Thanks to that, students can have a wider range of choice as well as decide the most suitable position to apply for. Users are allowed to register for the internship by simply clicking one button. As a result, his details will be sent to the company instantly.

## **Functionalities for admin**

This site is also built with necessary tools for an admin to be able to manage user database as well as posting, updating or deleting articles about the information of the internship.

# Design & Structure

## 1. Framework

- This website is built based in Model – View – Controller (MVC) architectural patterns. The idea is to make a clear division between domain objects that model our perceptions of real world and presentation objects that are the GUI elements we see on the screen.

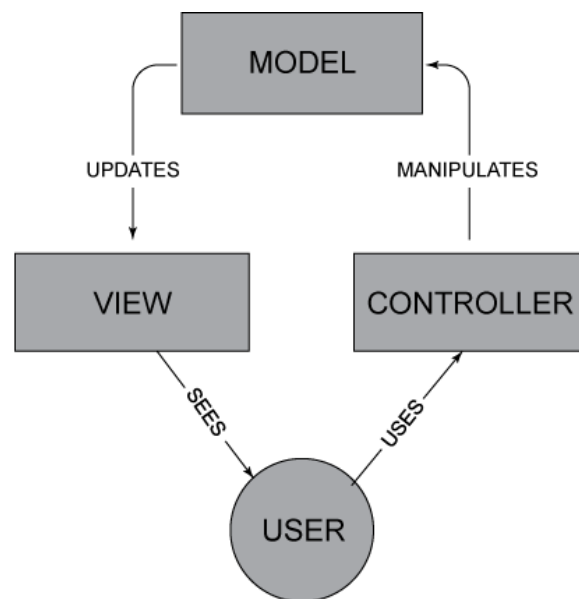


Figure 1: MVC architecture

- For that reason, we employ the advantages and convenience of CodeIgniter - “a PHP framework with a very small footprint, built for developers who need a simple and elegant toolkit to create full-featured web applications” <sup>(1)</sup>.
- In addition, since a friendly user interface is absolutely important to attract more Internet surfers visit the site, Bootstrap – “the most popular HTML, CSS, and JS framework for developing responsive, mobile first projects on the web” <sup>(2)</sup> has been integrated.

## 2. File Structure.

- Once downloaded, unzip the compressed file to see the structure of the project, you will have those files and folders as listed in the next page, in which *<kazel>* is the root folder.

/kazel

- application
  - config
    - autoload.php
    - config.php
    - database.php
    - route.php
  - controllers //controller for
    - ccompany.php //managing company
    - ccrud.php //admin functions
    - chome.php //page direction
    - cintern.php //managing internship
    - clogin.php //login
    - cregister.php //account registration
    - creset.php //reseting password
    - cusercrud.php //users' functions
    - upload.php //image upload
  - libraries //library for
    - Ajax\_pagination.php //paginationusing ajax
  - models //database connection for
    - mcompany.php //company database
    - mcrud.php //admin functions
    - mintern.php //internship database
    - mlogin.php //login page
    - mregister.php //account registration
    - mreset.php //reseting password
    - musercrud.php //users' database
    - upload\_model.php //image upload
  - views //interface for
    - company (folder) //company page
    - internship (folder) //internship page
    - pages (folder) //general pages
    - templates (folder) //header & footer
    - ... //other pages
- bootstrap //css and .js files for theme
- company\_cover //cover images for companies
- cover //cover images for internships
- uploads //profile images for users

# Initial Installation

It is necessary that your computer has been installed a PHP development environment. We highly recommend using XAMPP in order to efficiently follow the instruction below.

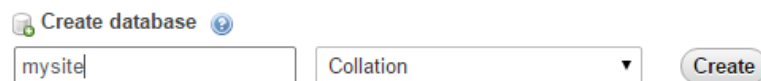
## 1. Extracting Source code and Database.

- As mentioned in *Design & Structure.2*, once you extract the .zip file, you will see the main folder *<kazel>*.
- Move this folder to *xampp/htdocs* directory

## 2. Restoring database

- Locating the web browser to your *<phpmyadmin>* page. In my case, it is: <http://localhost:8080/phpmyadmin>
  - *Note that the existence of the port number 8080 depends on your computer configuration. Some might need this part, others might not.*
  - *To maintain the consistency, throughout this report, <http://localhost:8080/> will be used as a primary link.*
- Create a new database in *phpmyadmin*, name it **mysite** as in image below.

### Databases



*Image 1: create database*

- Navigate to the import tab in the header bar. At this stage, we are ready to restore all the data for the website.
- Click on the Choose File button and browsing to the file *<mysite.sql>* which is inside *kazel/* folder. Lastly, confirm this action by clicking Go.
- Demo picture next page (Image 2)

Importing into the database "mysite"

**File to Import:**

File may be compressed (gzip, bzip2, zip) or uncompressed.  
A compressed file's name must end in `[format].[compression]`. Example: `.sql.zip`

Browse your computer:  mysite.sql (Max: 2,048K(B))

You may also drag and drop a file on any page.

Character set of the file:

**Partial Import:**

☒ Allow the interruption of an import in case the script detects it is close to the PHP timeout limit. (This might be a good way to import large files, however it can break transactions.)

Skip this number of queries (for SQL) or lines (for other formats), starting from the first one:

**Format:**

**Format-Specific Options:**

SQL compatibility mode:

☒ Do not use `AUTO_INCREMENT` for zero values

☐ Read as multibytes

Image 2: import mysite.sql

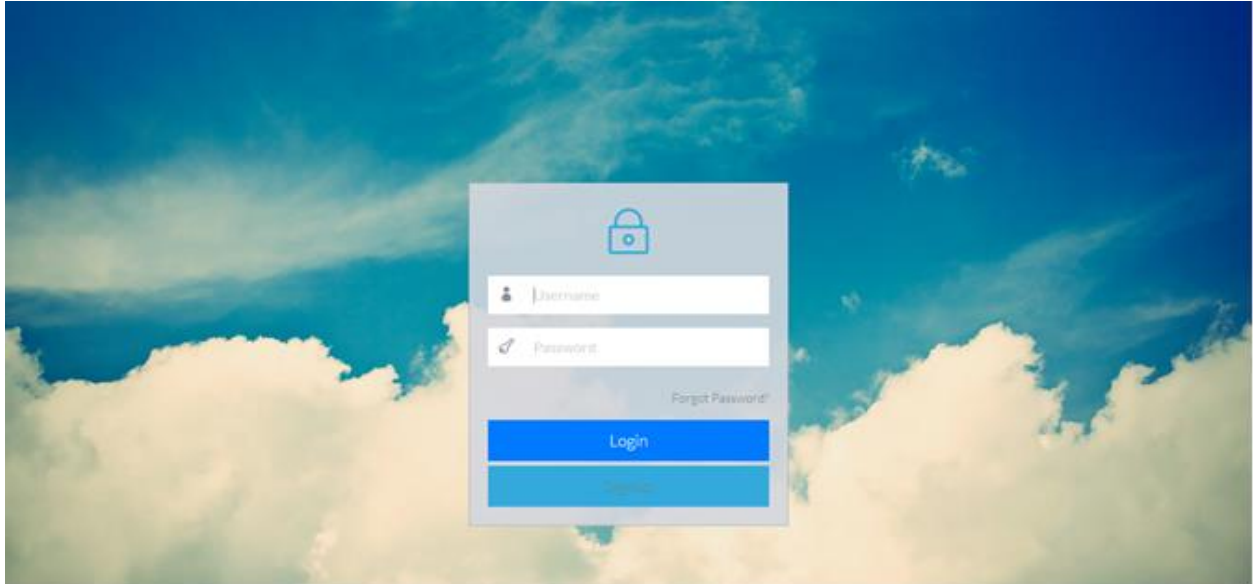
### 3. Further configuration

- To assure the functionality of the website, if your hostname is different from <http://localhost:8080/>, there steps are required
- Navigate to `kazel/application/config`, open file named `config.php` and edit the base URL
- `$config['base_url'] = 'http://localhost:8080/kazel/';`
- For all `.php` files existing in `kazel/application/views` (not in sub-folders), find & replace this line
- `<base href="http://localhost:8080/kazel/" />`
- Navigate to `kazel/application/views/templates`, find & replace this line:
- `<base href="http://localhost:8080/kazel/theme/" />`
- Locate to `kazel/application/models`, find `mregister.php` and `mreset.php`, find and replace hostname in `$message` path.
- Save all your works so far and it is supposed that you can experience our website.

# Functionality and Demonstration

## 1. General functions (applicable for both admins and student users)

### i. Login



- Image 3: login interface
- When one navigates to the website, the login page will appear as default, instead of the normal homepage as we may see from other websites. The reason is that we intended to allow access for registered users only.
- Therefore, one must *SIGN-IN* in order to get the access or *SIGN-UP* if he/she has not had any account yet. Otherwise this site is inaccessible.

### ii. Registration

- After click the **Signup** button...

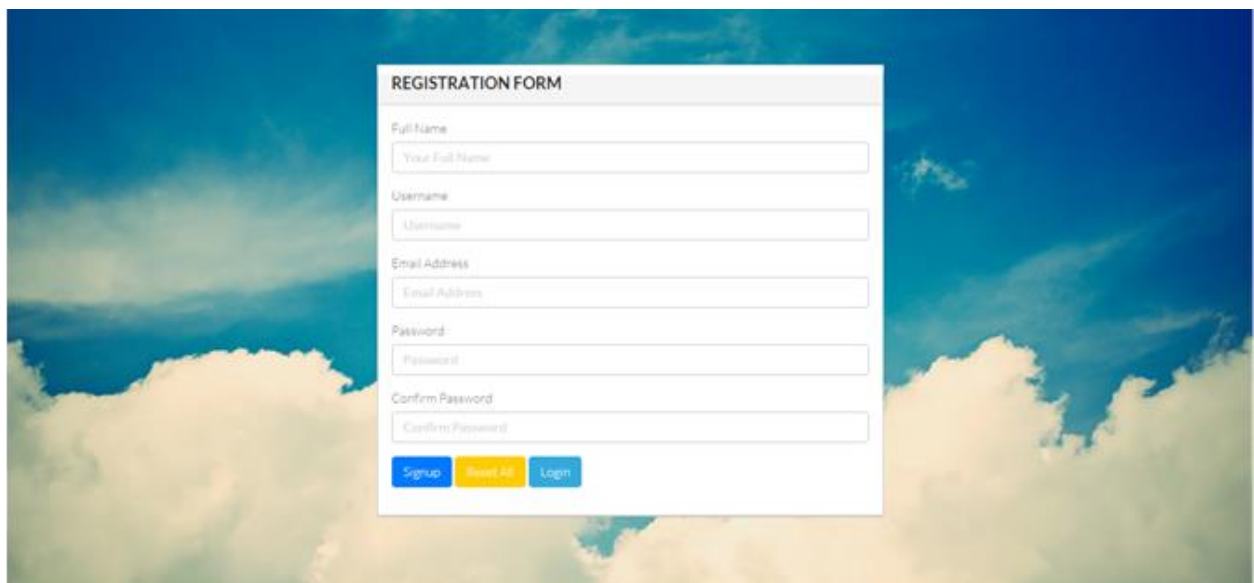
A registration form titled 'REGISTRATION FORM' is shown as a floating window against the same sky and clouds background. The form has a white background and a gray border. It contains several input fields: 'Full Name' (placeholder: 'Your Full Name'), 'Username' (placeholder: 'Username'), 'Email Address' (placeholder: 'Email Address'), 'Password' (placeholder: 'Password'), and 'Confirm Password' (placeholder: 'Confirm Password'). At the bottom of the form are three buttons: a blue 'Signup' button, a yellow 'Reset All' button, and a blue 'Login' button.

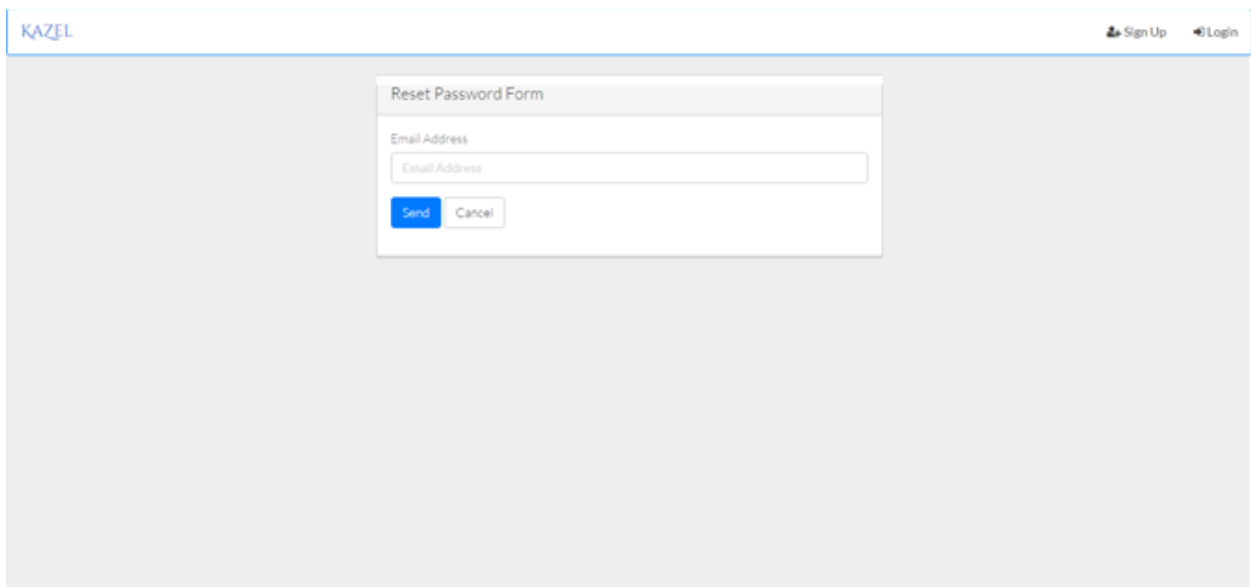
Image 4: signup form



- Fill in this form, click **Signup** again to complete the step. See what notification you have.
- If you receive something like *<You are Successfully Registered! Please confirm the mail sent to your Email Address!!!>*, now you can open your inbox, check the new email sent from **KaZel**.
- Otherwise, note the error you encountered and refill the form.

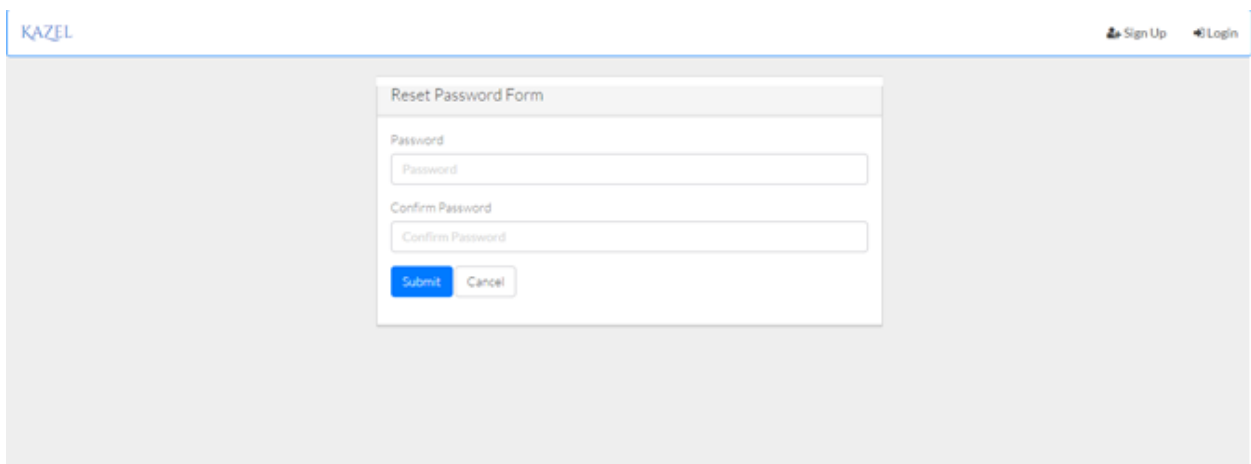
### iii. Reset password

- On the login page, click on the link *Forgot Password?*. The site will direct you to the page where you will fill in the form with your email address to receive the link for acquiring a new password.



*Image 5: require reset password form*

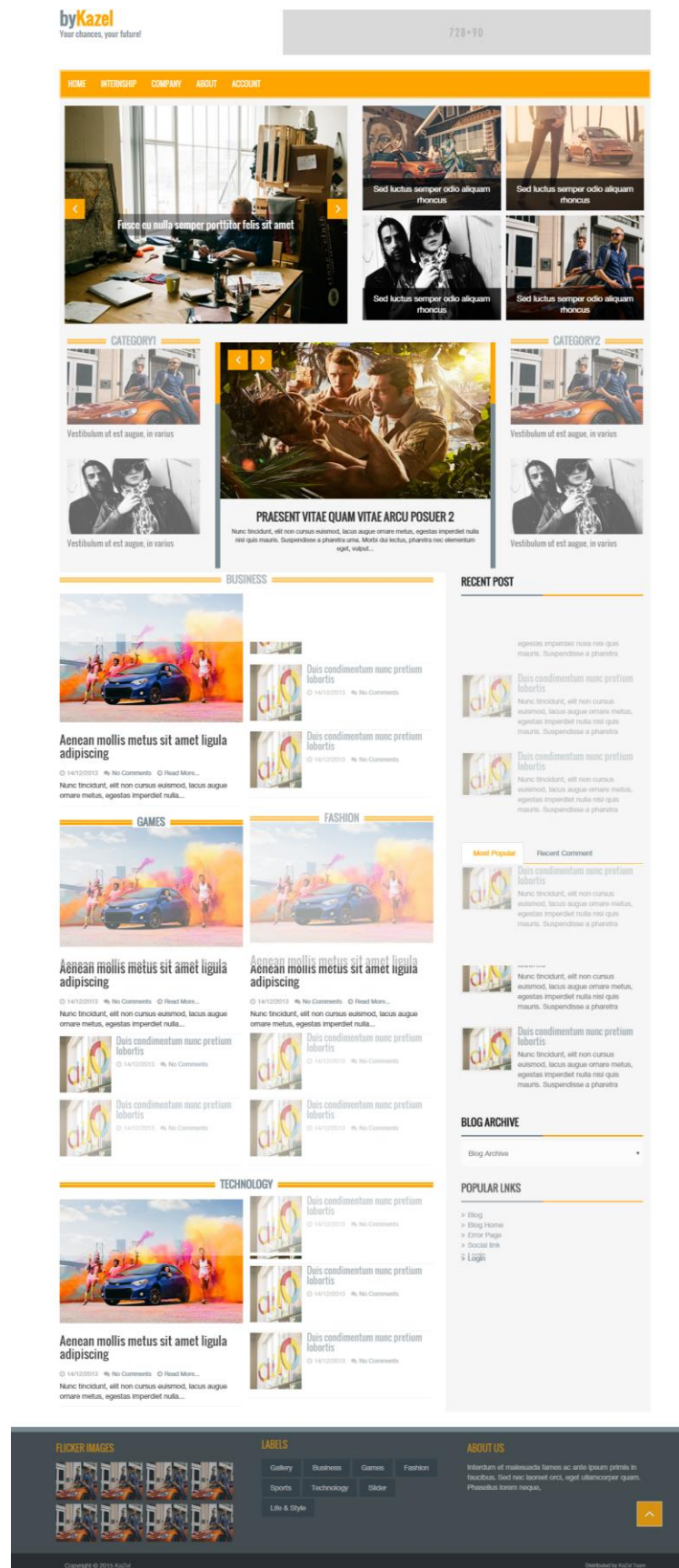
- If your email is registered and filled in correctly, an email will be sent to you. Check it and follow the link inside the email. Then, you can re-generate your password.



*Image 6: new password form*

## 2. From student point of view

- After successfully logged into your account, the browser will direct you to the homepage.



- At the moment, the homepage is left blank (remain theme's homepage) since we would like to focus more on functionalities of users and admins.
- For general user, the navigation bar contains five tabs:
  - Home
  - Internship: containing news/ articles about internship positions offered by different companies or organizations
  - Company: containing list of companies or organizations who are offering internships on this website.
  - About: information about us – developing team
  - Account: information about this user. He/she can manage his/her details because individual profile will be sent to companies/organizations once he/she registers for any positions.



*Image 7: navigation bar for general users*

#### **i. Internship tab**

- In this page, there are four main sections serving several purposes.
  - Latest updates: 02 recently posted internship news.
  - Hurry up!: 02 upcoming out-of-date internships.
  - Trending: 03 internship articles attracting the most currently (top 03 registered internships)
  - Internship list: other remain internship news.
- Note that: if one news has just been posted, it is supposed to be in “Latest updates” section. If it is, however, one of the two upcoming expired posts, then it will be categorized as “Hurry up!”.
- There are no repeating posts between “latest updates” and “Hurry up!”.
- Deadline for each internship is specified in its title, too.
- Demo picture below.

LATEST  
UPDATES

TRENDING

HURRY  
UP!

[HOME](#) [INTERSHIP](#) [COMPANY](#) [ABOUT](#) [ACCOUNT](#)

### LATEST UPDATES



[2016-02-28] Hoa Zell



[2016-02-20] Title



[2016-03-01] **FOOD TECHNOLOGY PROJECT**  
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam facilisis, ligula eu ullamcorper mattis, enim est fringilla mauris, quis luctus mi est quis lorem. Proin aliquam dui eleifend velit efficitur....

### HURRY UP!




[2016-01-05] Title




[2016-01-06] Summer Recruitment


### INTERSHIP LIST




[2016-03-31] Satellite Controller System [Read More](#)



[2016-03-15] Speech Processing Application [Read More](#)



[2016-01-20] Google Map for Hanoi [Read More](#)



[2016-01-07] New test [Read More](#)

INTERSHIP  
LIST

#### FLICKER IMAGES



#### LABELS

[Gallery](#) [Business](#) [Games](#) [Fashion](#)  
[Sports](#) [Technology](#) [Slider](#)  
[Life & Style](#)

#### ABOUT US

Interdum et malesuada fames ac ante ipsum primis in  
faucibus. Sed nec laoreet orci, eget ullamcorper quam.  
Phasellus lorem neque,



Image 8: internship page

- If you're interested in any internship, click on the title or its image for further information. Here is an example:

**byKazel**  
Your chances, your future!

728x90

HOME INTERNSHIP COMPANY ABOUT ACCOUNT

Home / Internship / Speech Processing Application

## Speech Processing Application

Administrator 2015-12-18 20:31:49 Deadline: 2016-03-15

400 x 300

### Internship Description

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam facilisis, ligula eu ullamcorper mattis, enim est fringilla mauris, quis luctus mi est quis lorem. Proin aliquam dui eleifend velit efficitur tincidunt. Donec diam elit, tincidunt non posuere non, rhoncus consequat lectus. Fusce velit turpis, varius in tincidunt ut, pretium eget erat. Curabitur pharetra convallis tellus, et ullamcorper augue euismod quis. Donec laoreet tellus et dictum mollis. Aliquam posuere velit nec augue lacinia, sed accumsan risus lobortis. Nam egestas tristique justo sit amet blandit. Vestibulum imperdiet justo ex, at lobortis tellus luctus in.

Nullam finibus, ipsum in lacinia vestibulum, neque lorem finibus orci, eu maximus sem tortor fermentum nisi. Nulla facilisi. Phasellus sapien ante, sodales quis neque vel, facilisis posuere lacus. Ut porttitor venenatis aliquet. Aliquam erat volutpat. Donec ultrices nisi at lectus suscipit, at finibus augue fermentum. Morbi condimentum ac diam at dignissim. Sed cursus leo ut ex tempus, vitae posuere nisi elementum. Maecenas dictum sagittis semper. Morbi mattis hendrerit rutrum. Vestibulum vel bibendum magna. Sed eget venenatis nulla. Suspendisse potenti. Duis pharetra odio quis rutrum efficitur. Aenean rhoncus, magna et tempus rhoncus, ipsum urna maximus orci, vitae elementum diam sapien et mauris.

### Internship position(s)

Researcher	<a href="#">✖ Deregister</a>
Android Developer	<a href="#">✖ Deregister</a>
Sound technician	<a href="#">✔ Register</a>

### Contact Detail

**Company/ Organization:** Vietnam Academy of Science and Technology  
**Deadline:** 2016-03-15  
**Address:** 18 Hoang Quoc Viet  
**Telephone:** 0975345146  
**Email:** internship@vast.org

[← Back](#)

**FLICKER IMAGES**

**LABELS**

Gallery Business Games Fashion Sports Technology Slider Life & Style

**ABOUT US**

Interdum et malesuada fames ac ante ipsum primis in faucibus. Sed nec laoreet orci, eget ullamcorper quam. Phasellus lorem neque,

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Image 9: particular view of an internship post



- About the *Deregister* and *Register* buttons:
  - o For each offering positions, the system will determine whether this user has registered for this already or not. If yes, then the *Deregister* button will appear in red, otherwise the *Register* button appears in green.

## ii. Company tab

- In this page, we just randomly pick three companies from the database and put them on the top, beside area will serve advertising purpose.

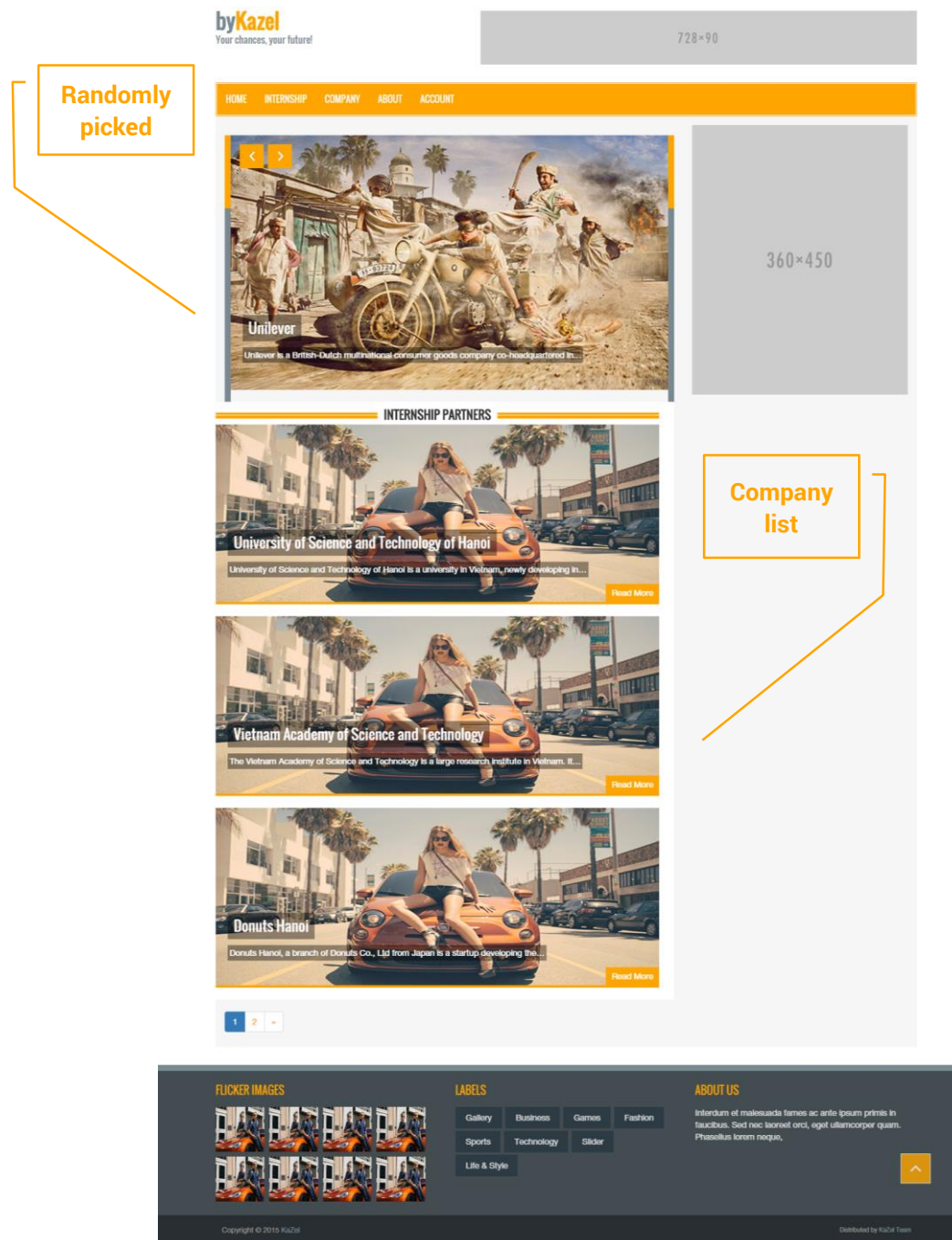
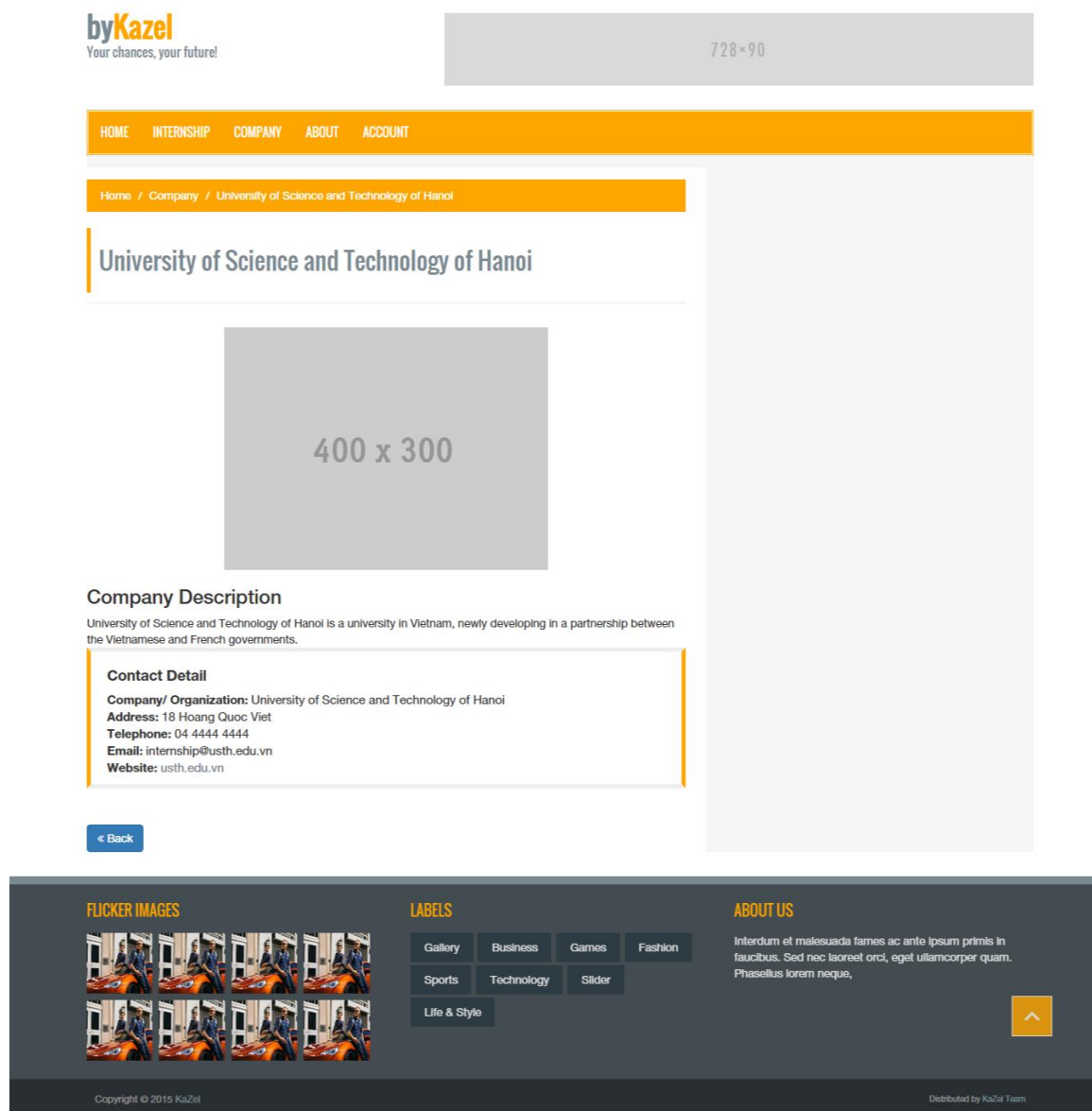


Image 10: company page

- A particular view for company information is similar to that for internship



*Image 11: particular company view*

### iii. About tab

- Simply this page provides abstract detail about us – developing team.
- Demo picture below.

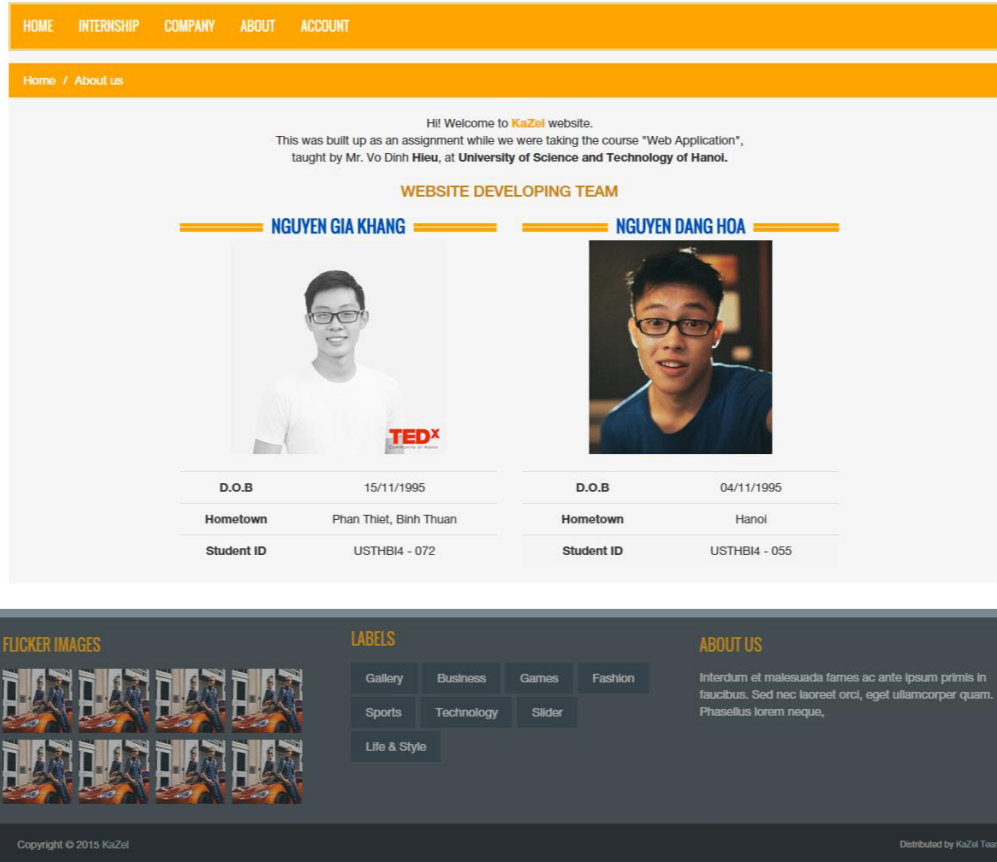


Image 12: about us

#### iv. Account tab

- If one hover on this tab, there will be a dropdown area containing two sub-tab.
  - Account info: link to user's personal info page
  - Logout: log out of user account.
- In this page, user's profile picture and other essential details such as full name, username... are presented.
- It is worth to note that all current registrations of this typical user will also be listed here. There are three registrations/ each user in maximum (expired internship registrations are not counted)
- Click on any name of position will link user to the internship view of this registration. (original page where this registration is marked)



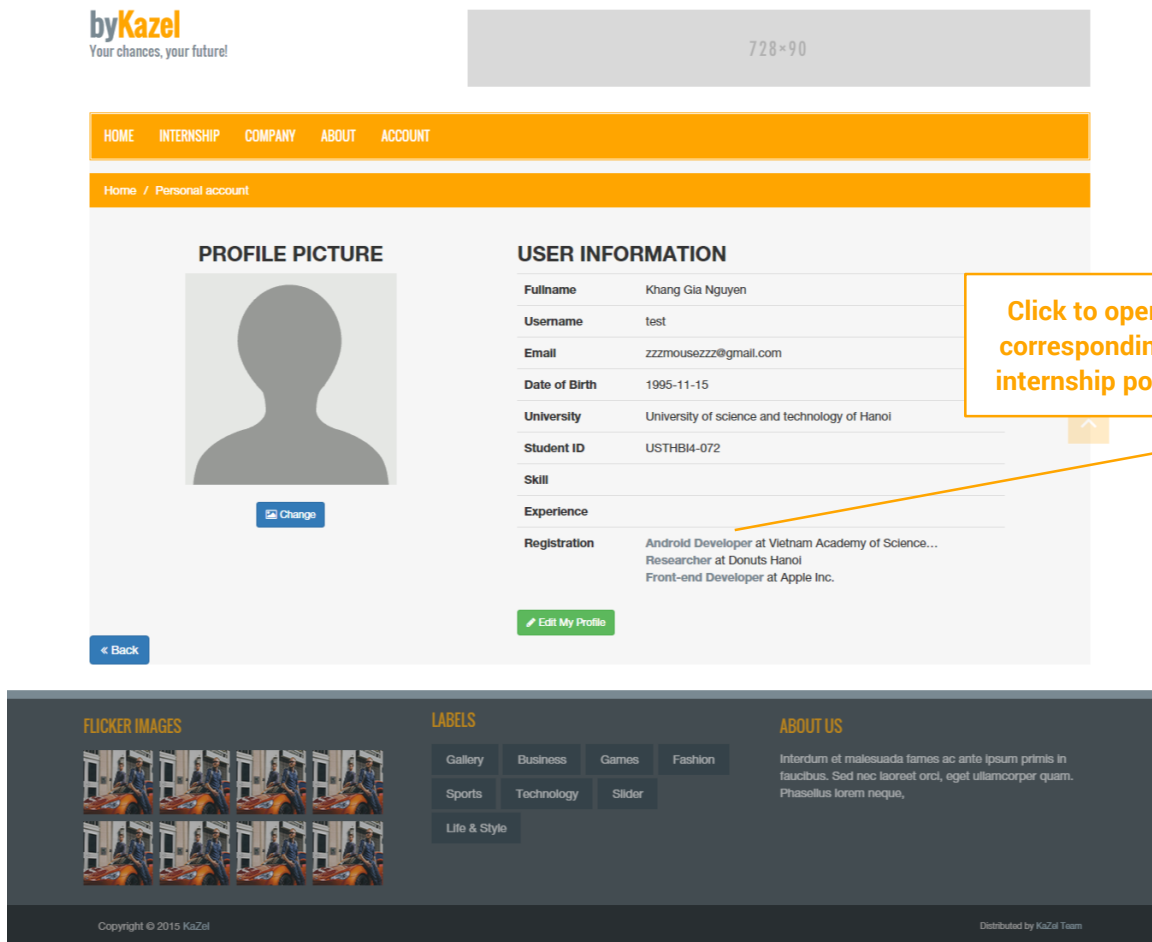


Image 13: account info

- User can change his/her profile picture
  - o Click the blue button *Change* to replace the boring-grey default image with your gorgeous avatar.
  - o Note that the maximum size allowed is no more than 3MB.

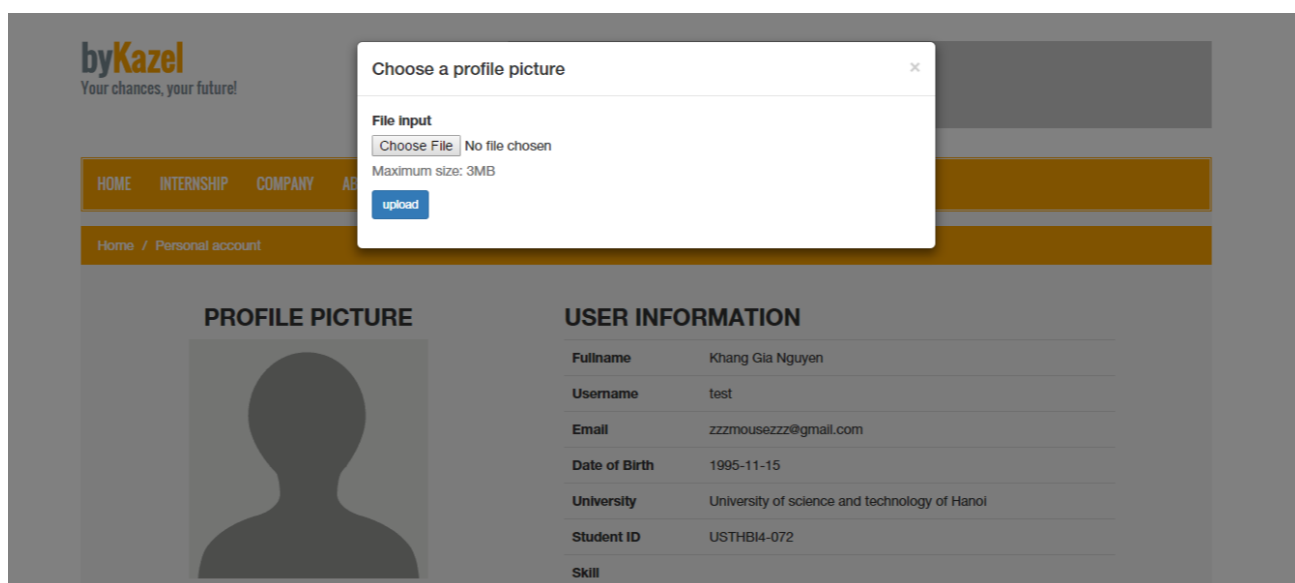


Image 14: upload profile picture dialog

- User can also edit his/her personal information or even account password by clicking *Edit my profile* button
- Apart from others, username cannot be changed since it must be unique.

**byKazel**  
Your chances, your future!

728×90

HOME INTERNSHIP COMPANY ABOUT ACCOUNT

**Full Name**  
Khang Gia Nguyen

**Username**  
test

**Email**  
zzzmousezzz@gmail.com

**Password**  
\*\*\*\*\*

**Date of Birth (YYYY-MM-DD)**  
1995-11-15

**University**  
University of science and technology of Hanoi

**Student ID**  
USTHB14-072

**Personal Skills**

**Experiences**

[Update](#) [Back](#)

**FLICKER IMAGES**

**LABELS**

Gallery Business Games Fashion Sports Technology Slider Life & Style

**ABOUT US**

Interdum et malesuada fames ac ante ipsum primis in faucibus. Sed nec laoreet orci, eget ullamcorper quam. Phasellus lorem neque,

Copyright © 2015 KaZel Distributed by KaZel Team

Image 15: edit profile

### 3. Specific admin functions

- As an admin of the website, he/she can access to all functionalities like a general user with minor changes in the interface and there are more built-in functions to serve the purpose of management.

- One of noticeable changes is the navigation bar. There will be two sub-tab for each *Internship* and *Company* tabs, one is *active/available* and the other one is *hidden*.
  - o The *active/available* tab is exactly the same as default *Internship* tab for general user.
  - o The *hidden* tab is used for listing all unpublished posts/news. Discuss later.
- Demo pictures below

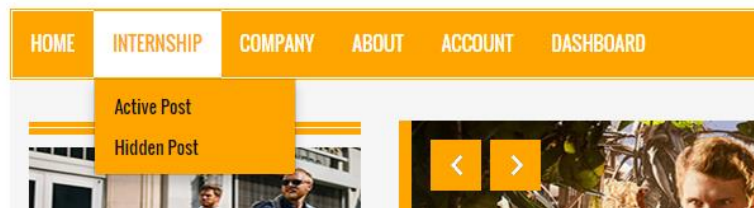


Image 16: internship navigation bar for admin

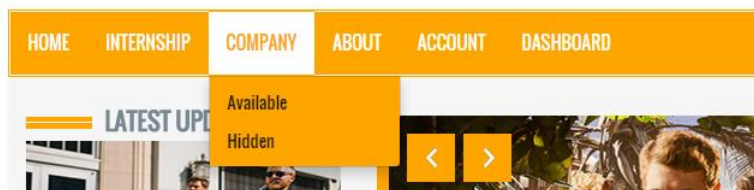


Image 17: company navigation bar for admin

- Another changes in navigation bar is the appearance of *Dashboard* tab. Basically, this is the place showing the system database in a CRUD view (Create – Read – Update – Delete). Move to next section for details.

#### i. Dashboard

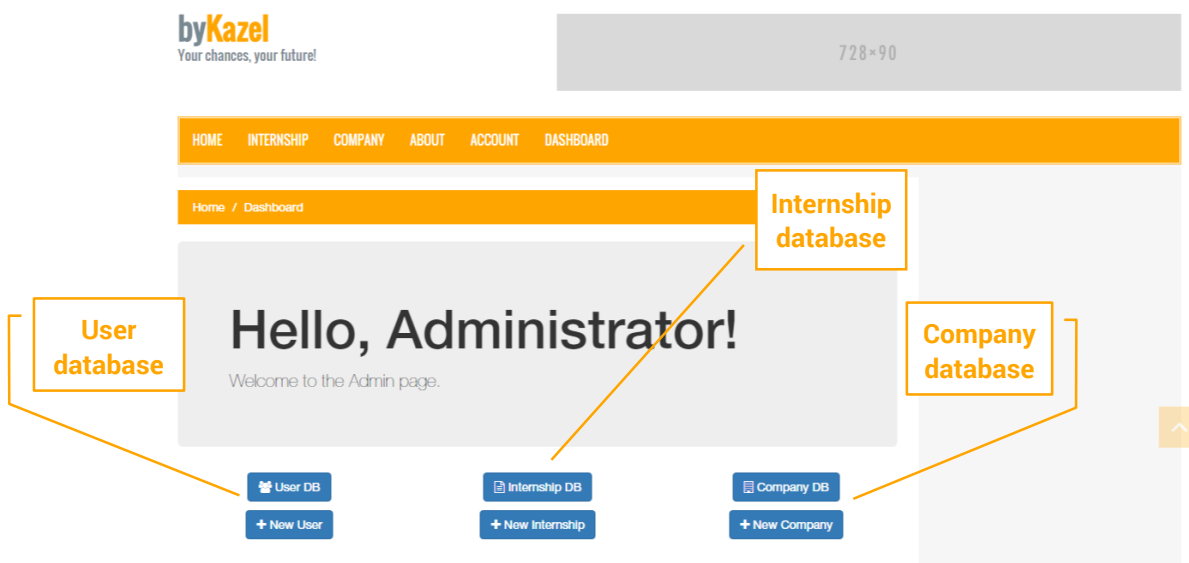


Image 18: dashboard

- In general, the views of three databases are similar. Therefore in the scope of this report, we merely mention *Internship database* for demonstration.

## ii. Internship management

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728×90

HOME INTERNSHIP COMPANY ABOUT ACCOUNT DASHBOARD

+ Add new internship

**INTERNSHIP NEWS DATABASE**

ID	Title	Company	Description	Deadline	No. Reg	Timestamp	Status	Admin	Action
1	Food Technology Project	Donuts Hanoi	Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam facilisis,...	2016-03-01	13	2015-12-17 18:09:49	Available	Administrator	
2	Responsive Advertising Website Design	Apple Inc.	Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam facilisis,...	2016-02-28	5	2015-12-17 19:09:49	Available	Administrator	
3	Speech Processing Application	Vietnam Academy of Science and Technology	Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam facilisis,...	2016-03-15	5	2015-12-18 20:31:49	Available	Administrator	
7	Google Map for Hanoi	University of Science and Technology of Hanoi	Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam facilisis,...	2016-01-20	3	2015-12-21 16:28:45	Available	Administrator	
8	Summer Recruitment	Unilever	Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam facilisis,...	2016-01-06	6	2015-12-21 16:31:29	Available	Administrator	
5	Satellite Controller System	Donuts Hanoi	Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam facilisis,...	2016-03-31	3	2015-12-24 10:00:12	Available	Administrator	
11	Title	Apple Inc.	Some text goes here. Some text goes here. Some text goes here. Some...	2016-01-05	0	2015-12-24 10:29:42	Available	Administrator	

Image 19: internship database CRUD view

- View, Edit & Delete buttons are literally the functions as same as their name.
  - o Click on View to open *internship page view* (Image 9) of that referencing row. Nevertheless, there are some differences in the interface when few more buttons are added as in demo picture below

Home / Internship / Food Technology Project

**Food Technology Project**

Administrator 2015-12-17 18:09:49 Deadline: 2016-03-01

Image 20: additional buttons for admin management

- Edit post: update or modify information inside this post
- Change cover: default cover photo is a boring grey image. Hence admin can change it to a more vivid one.

- Delete post: completely remove this post from the database. This will affects records of other database such as *Register*. So in case we would like to temporary hide this post from general user interface, simply choose *Hidden post*.
  - Hide post: once choosing this option, the current post will be moved to *Hidden page* according to its parent tab (*Internship* or *Company*) as mentioned in the beginning of *3. Specific admin function*.
  - Unhide post: reverse to hide post.
- The website allows admins to create new record by clicking *Add new internship* button on *Internship database page* or *Dashboard page*.
- Note that in creating new post, after choose submit button, the post is placed in the *Hidden page*. Admin should change cover photo and click *Unhide* to publish it into *Available page*.

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728×90

HOME INTERNSHIP COMPANY ABOUT ACCOUNT DASHBOARD

Home / Internship / Create New Internship Post

### New Internship Information

Title

Name of Company/ Organization

1. University of Science and Technology of Hanoi

Internship Description

Internship Position(s) +

Internship Deadline

Create Reset

*Image 21: create new post page*

- We have integrate a WYSIWYG (what you see is what you get) text editor into *Create* as well as *Edit* page. So that the admin will not have to concern about HTML tags like <p> <h1> <br/>... because everything is automatically implemented. Type in and get the result.

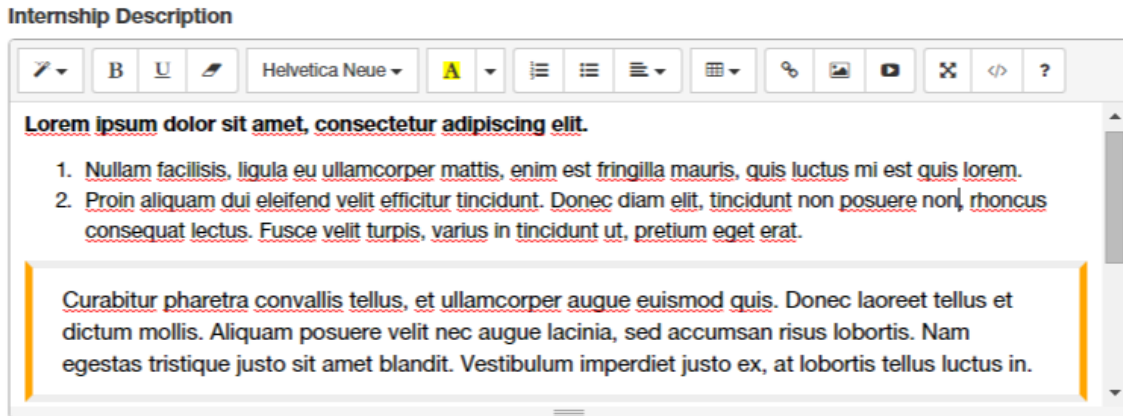


Image 22: WYSIWYG text editor

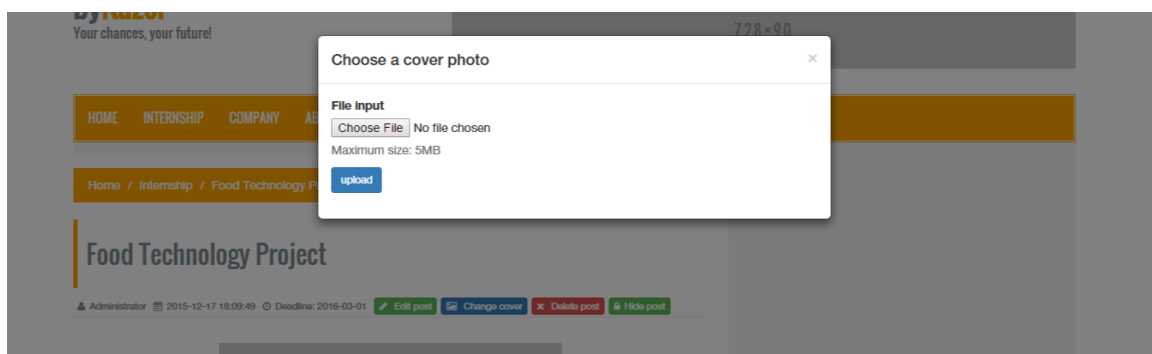


Image 23: upload cover photo dialog

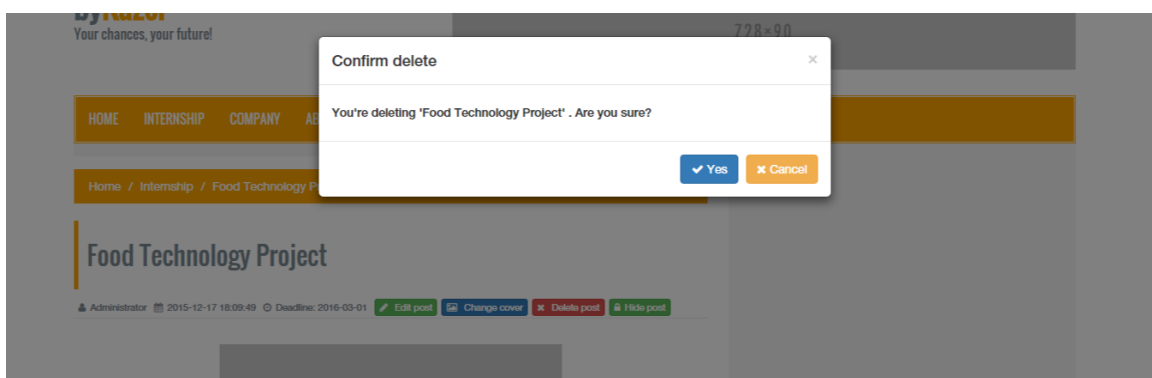


Image 24: Confirm delete post dialog

- If we click on the number of registration in the Internship database page, the browser will direct to a Report page, including list of offering positions for that internship and list of registrations for that internship. Demo picture below.

## Food Technology Project

### Position

Position	No. Regis
Biologist	1
Researcher	3

### List of Registration

Candidate	Applying for
Khang Gia Nguyen	Researcher
Tran Phuong Thao	Researcher
Nguyen Thi Hong Ha	Biologist
Nguyen Thi Hong Ha	Researcher

← Back

Image 25: Report page

## Conclusion

- REST APIs are not implemented on this website due to the significant complexity of several functionalities.
- Rather than that, a truly look-like real interface has been developed to provides and maintain user interest while interacting with this website.
- There might be some minor errors although in testing process, we checked several times.
- Any incomplete installation steps can lead to unexpected failures.

## References

- <https://www.codeigniter.com>
- <http://getbootstrap.com>
- <http://learnjquerybootstrap.blogspot.com/>
- <http://www.kodingmadesimple.com/>