**Technical Report**

Group Name

Group Members (include studentID’s)

**Overview**

*This document is submitted in partial fulfillment of the Business Application Development module 2017 delivered by Manuel Tova-Izquierdo.*

Table of Contents

Product Overview 3

Requirements Specification Migration 3

Self reflective analysis of the initial Gantt chart submitted 3

Discussion on the benefits of using SCRUM 3

Challenges Encountered 3

Conclusion and Future Work 4

# Product Overview

The group is developing a product specifically for OAPs while specialising in those living alone

The aim of the website is to assist in eliciting information, which is provided from a variety of different services in this domain. This will assist in providing the best service and information, based on the customer’s personal needs.

The product itself would not have any new information, as the information would be retrieved from the services and also be available on the service’s own website. The product’s purpose is to bring all these services to one place.

The main users of the product would be the Customer and Company. Admins would also have access.

Customers and Companies can create an account, login, or edit their details from the product. Admins would be able to delete accounts but creating an admin account or logging in would be outside the system.

Companies can add information, services or events, but these must be approved by an Admin before being public. Customers can search information, services, or events (also book events) and save them to a personal area on the website.

Comments can be added by both Customers and Companies, but they must be approved by an admin. Payment for maintaining the site would come from the Company where a small fee would be added to publish information (etc.) to the website.

# Requirements Specification Migration - Keith

Use Case Diagram

## 

## Use Case Description

### Use Case One – Week 4

Customer Search Resources

**Scope:**

The scope of this use case is for customers search any resources relative to their needs including services and events.

**Description:**

This use case describes the process that how customers search for the resources that they required.

**Flow Description**

***Precondition:***

The system is idle and available.

***Activation:***

The use case starts when customers type in the search box or browsing the website.

***Main flow:***

1. Customers start to search the resource. [A1: From Navbar] [A2: From Search box]
2. List of links which relative to the search topic will showing on the pages, and customers can click the link to get more information.
3. The key words that customers used to search and also the links which are opened will be stored in the history after customer’s log in.
4. The searching resource can be saved by customers to their Favourite.

***Alternate flow:***

(A1: From Navbar)

1. Different categories of services or events will be listed under the Navbar.
2. Customers choose the resources they required.
3. Continue in main flow point 2.

(A2: From Search box)

1. The link pages will not be showing up when customers type the wrong words.
2. The link pages will not be showing up when there are no relative resources.
3. Continue in main flow point 2.

***Exceptional flow:***

The links will not jump to the information pages when the website is being maintained by Admin or when there are too many users browse the website.

***Termination:***

Customer stop searching resources.

***Post condition:***

The system goes to a wait state

### Use Case One – Week 12

Customer Search Resources

**Scope:**

The scope of this Use Case is so users can create a search term on the website and then be redirected to an external site or to search for events on the website.

**Description:**

This use case describes the process that how customers create a search term or search events for the resources that they require.

**Flow Description**

***Precondition:***

The Customer is logged in, and at the Home page.

***Activation:***

The use case starts when customers clicks on Search button on the Home page.

***Main flow:***

1. Customer clicks the Search button.
2. Website goes to ../customersearch/search.php .
3. Customer clicks on Search Events at the bottom on the page. [A1]
4. Website goes to ../customersearch/index.1.php .
5. Customer enters Search term and results appear automatically. [E1]
6. Customer clicks on View Event
7. Website redirects to ../customersaveevent/event.php . Website passes event\_id from previous page.
8. Website shows relevant event details on page
9. Customer clicks “Send request” to book for the event.
10. An alert shows up on the screen saying “Request Submitted”

***Alternate flow:***

(A1)

1. Customer enters search term and selects the service they require.
2. Customer clicks Submit button.
3. Website goes to ../customersearch/redirect.php .
4. Page displays confirmation that the Customer was to visit an external site.
5. Customer clicks Yes button.

[Outside system:] Customer is redirected to relevant website’s search page with search term already inserted for them.

***Exceptional flow:***

(A1)

1. No results are found. Customer cannot proceed.
2. Returns to 5 in Main Flow.

***Termination:***

When the customer is redirected to an external site or when the Customer has booked the event.

***Post condition:***

The system goes to a wait state

### Reasons for changes:

The Customer-Search task ran for 8 weeks instead of 5 weeks, due to a personal, internal conflict with one of the Team Members. It was changed to suit their skills and capabilities.

### 

### Use Case Two – Week 4

Company Edit Resources

**Scope:**

The scope of this use case is for companies edit the information of the resources.

**Description:**

This use case describes the process that companies add, delete or update the information of the resources

**Flow Description**

***Precondition:***

The system is idle and available.

***Activation:***

The use case starts when companies edit resources in the manageable page.

***Main flow:***

1. Companies log in to the website (a1 Register).
2. Go to the manageable page and start edit the information of resource.
3. Save the changes for updating.

***Alternate flow:***

(A1 Register)

1. Companies who haven’t log in to the website cannot edit the information of resources.
2. Continue in main flow point 2.

***Exceptional flow:***

The editing will not be process when the web pages are being maintain. And also the changes will not be showed up if the admin not provide the access of the information.

***Termination:***

Companies stop editing the information and save all the changes.

***Post condition:***

The system goes to a wait state

### Use Case Two – Week 12

Company Edit Resources

**Scope:**

The scope of this use case is for companies edit the information of the Events.

**Description:**

This use case describes the process that companies add, delete or update the information of the resources

**Flow Description**

***Precondition:***

The Company is logged in and at the Home page.

***Activation:***

The use case starts when the Company selects the dropdown menu named Company Events and select View/Edit/Delete Events.

***Main flow:***

1. The website goes to ../company\_add/showEvent.php .
2. The webpage displays the events that the current logged in Company has created. [No other company’s events are shown here] [A1]
3. The Company selects View/Edit on the relevant event they wish to view or edit. [A2]
4. Website goes to ../company\_add/edit.php . Website passes event\_id from previous page.
5. Company makes relevant changes and selects Submit [E1]
6. Website returns to ../company\_add/showEvent.php .

***Alternate flow:***

(A1)

1. No events are shown [Company has not created any]
2. Terminates / Goes to another Use Case (Add Event, not listed)

(A2)

1. Company selects Delete
2. Website deletes Event.
3. Returns to 2 in Main Flow

***Exceptional flow:***

(E1)

1. Field pattern is not correct (invalid character, null value in required field, etc.}
2. Returns to 4 in Main Flow

***Termination:***

This Use Case terminates when the Company successfully edits or deletes the relevant Event.

***Post condition:***

The system goes to a wait state

### Reasons for changes:

This Use Case was altered to adjust to a Team Member’s capabilities. This Team Member had not used Cloud 9 before and needed to learn this before they could continue, so the allocated time for this task was reduced.

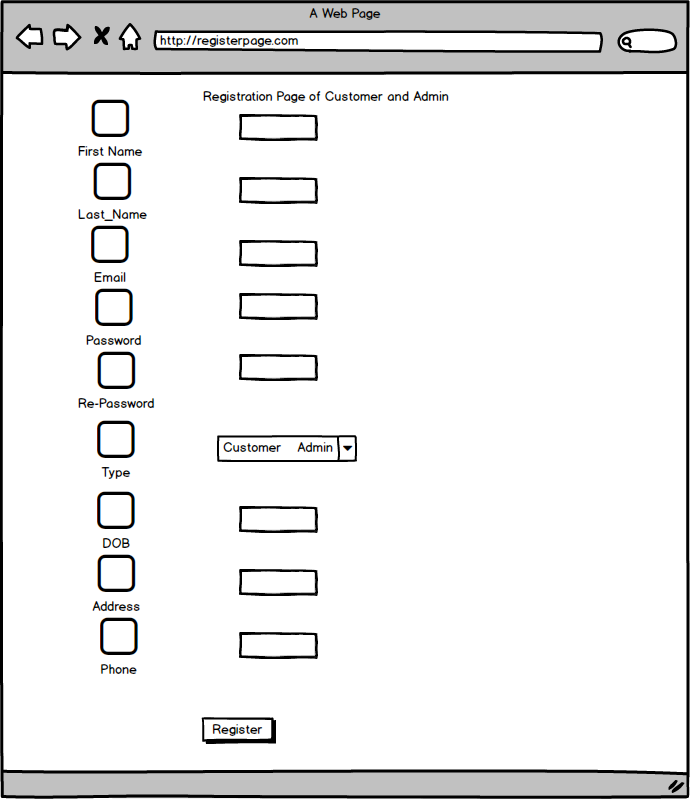
These Use Cases were chosen as these are the most important.

## GUI

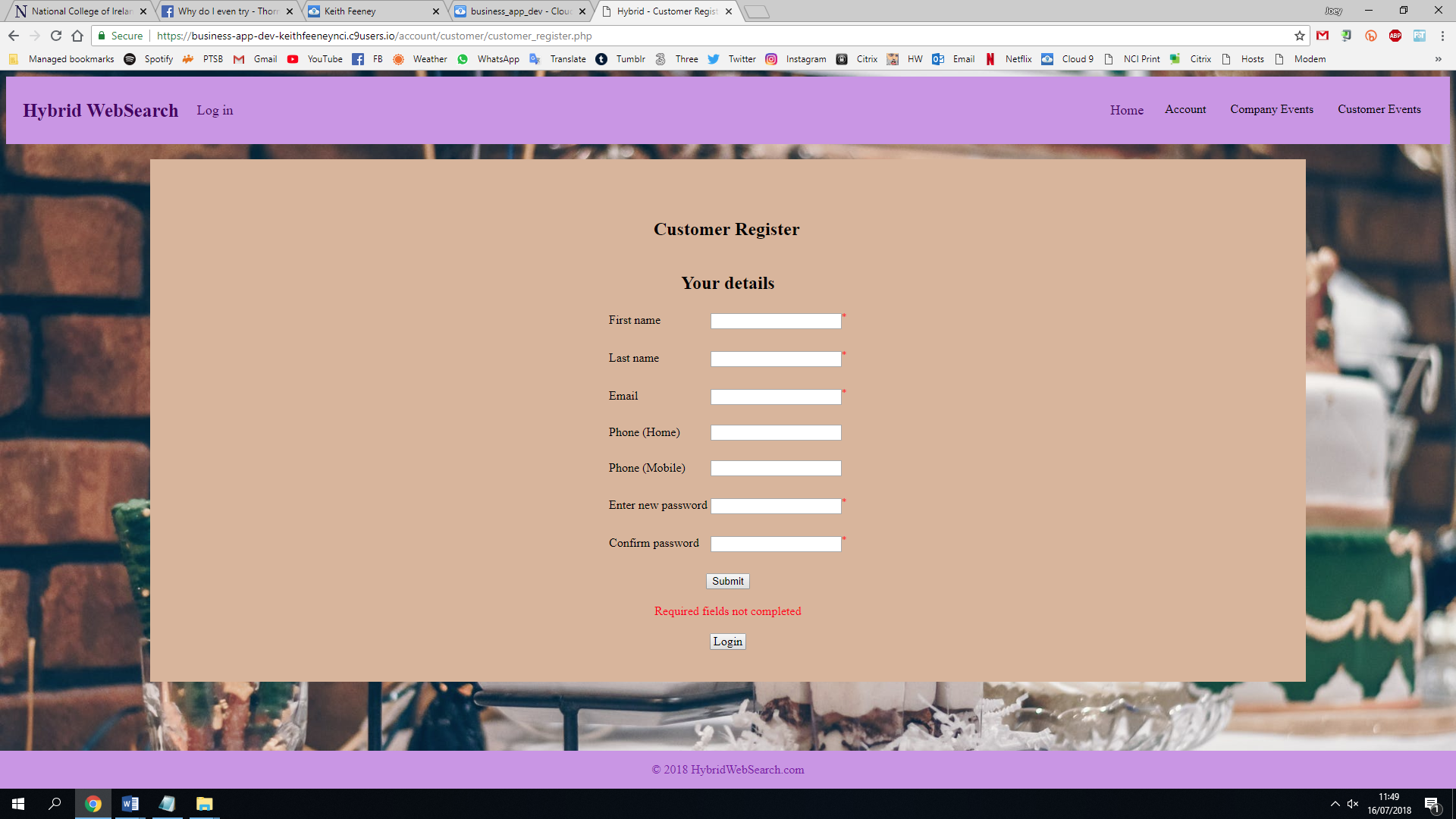
1. Customer and Admin Registration Page

This is the registration page for the admin and customer show in the picture.

Week 4 version



Week 12 Version



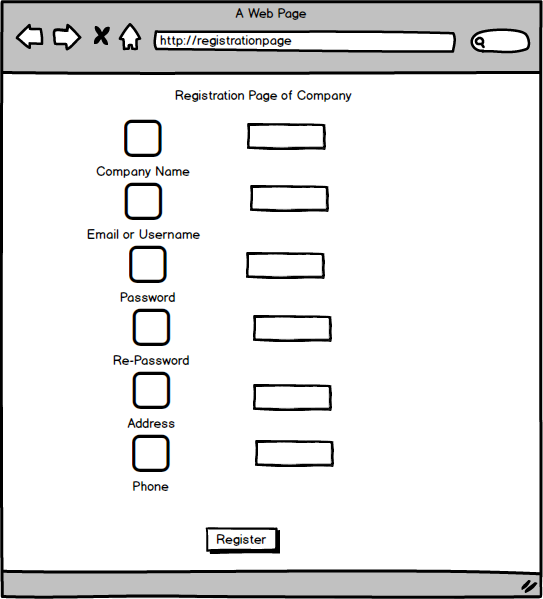
Reasons for changes

The Admin now signs in from an external source, so Admin accounts cannot register/login on the site. This page is also similar to the Company Register but with different fields. An Admin needs to approve an account before it’s activated but this is outside of the system.

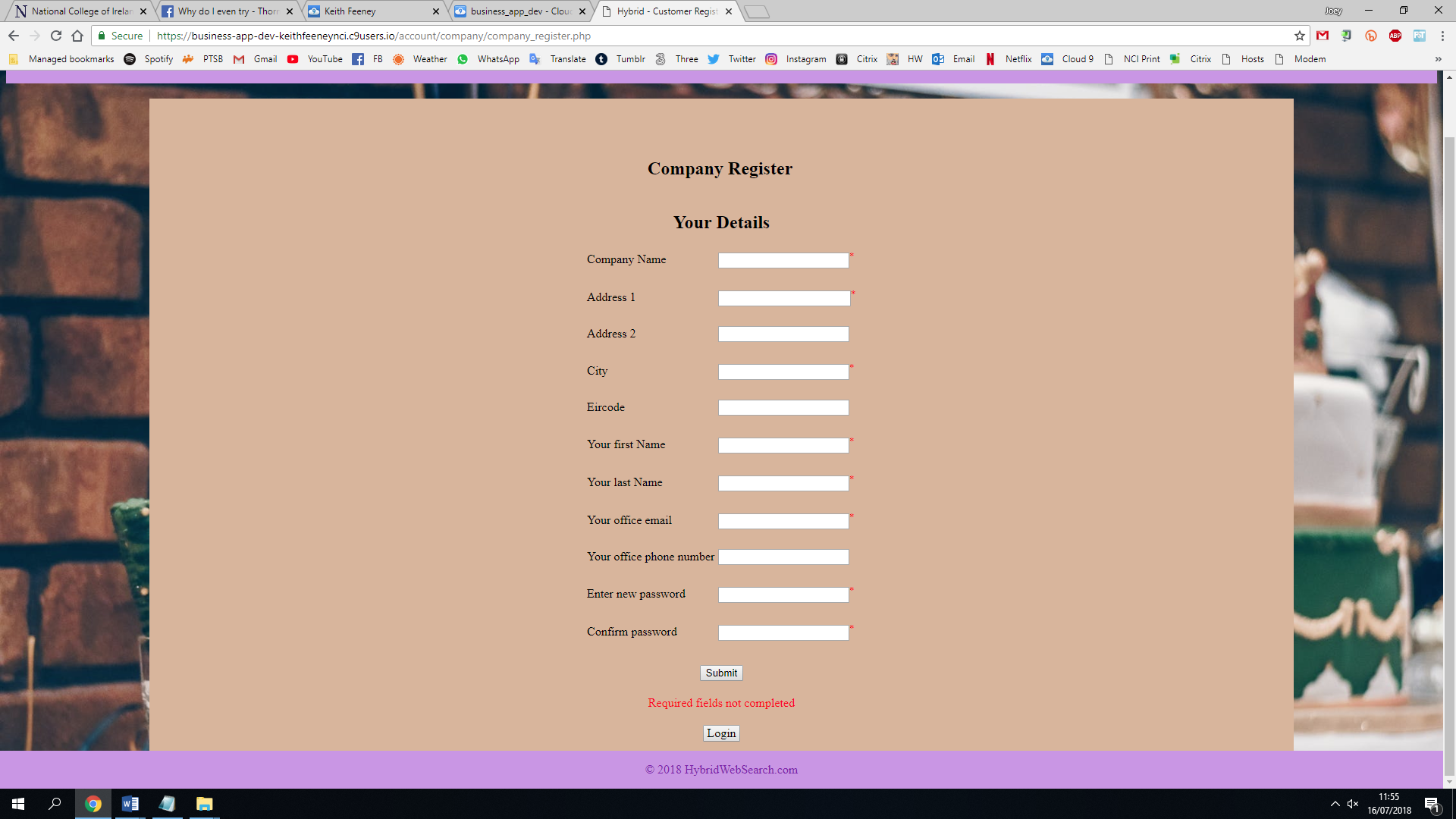
Registration Page of Company

This is the registration page of company shown in the picture.

Week 4 version



Week 12 Version



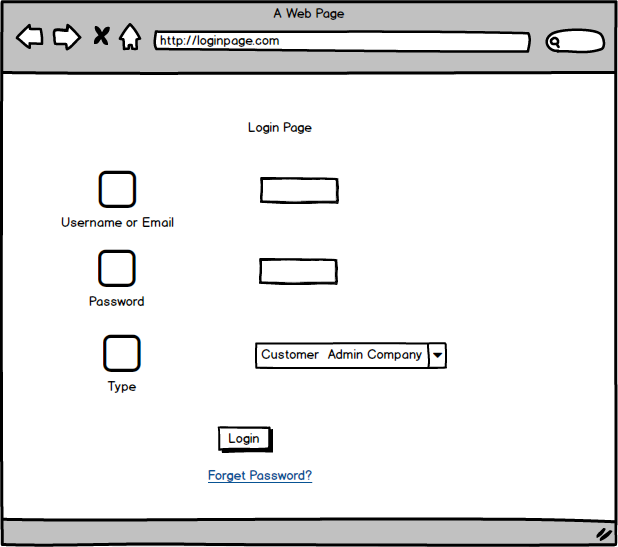
Reasons for changes

Minor changes to fields to make it more usable.

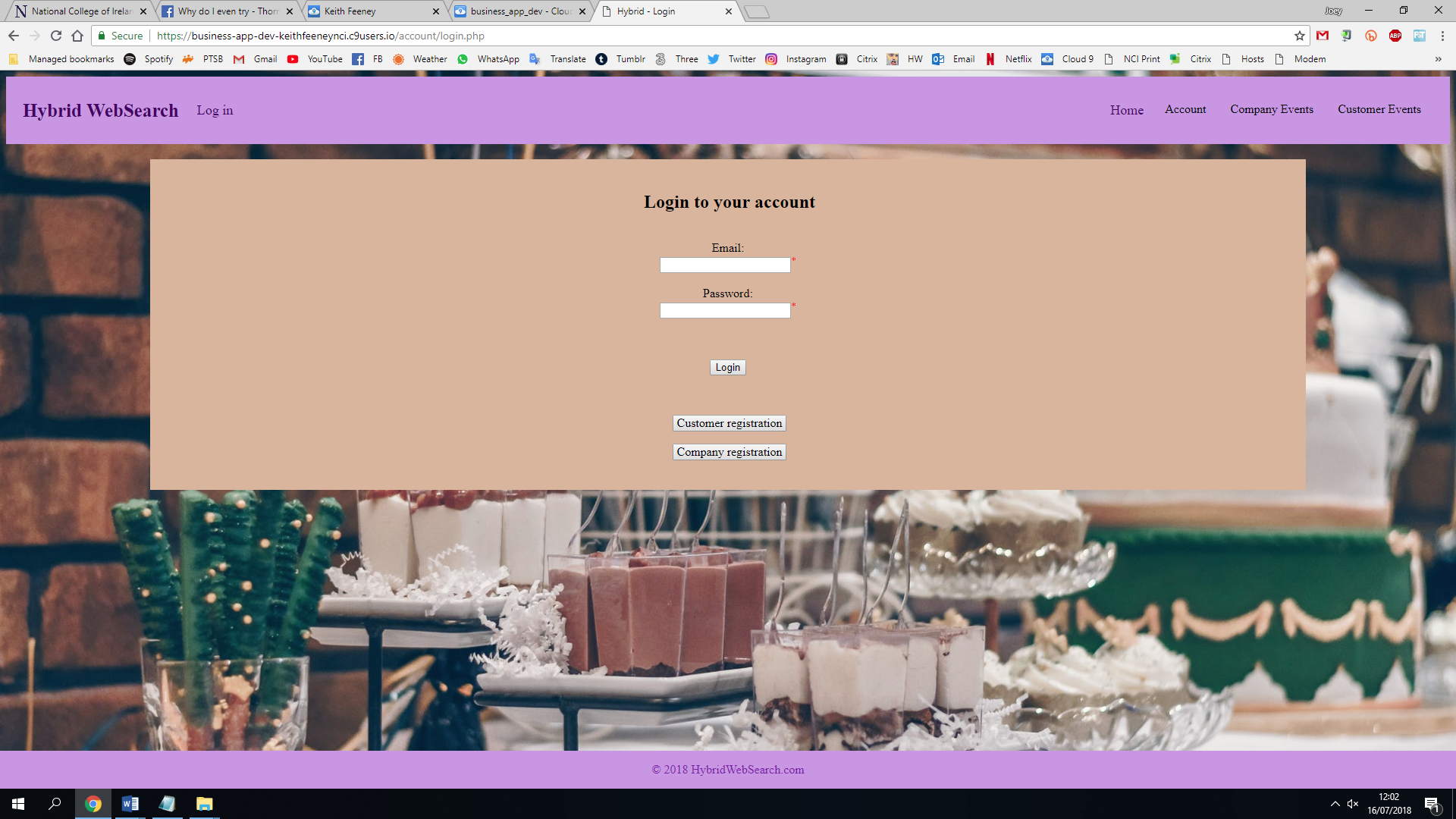
1. Login Page for all users

This is the login page for all the users (Customer, Admin and Company) shown in the picture.

Week 4 version



Week 12 Version



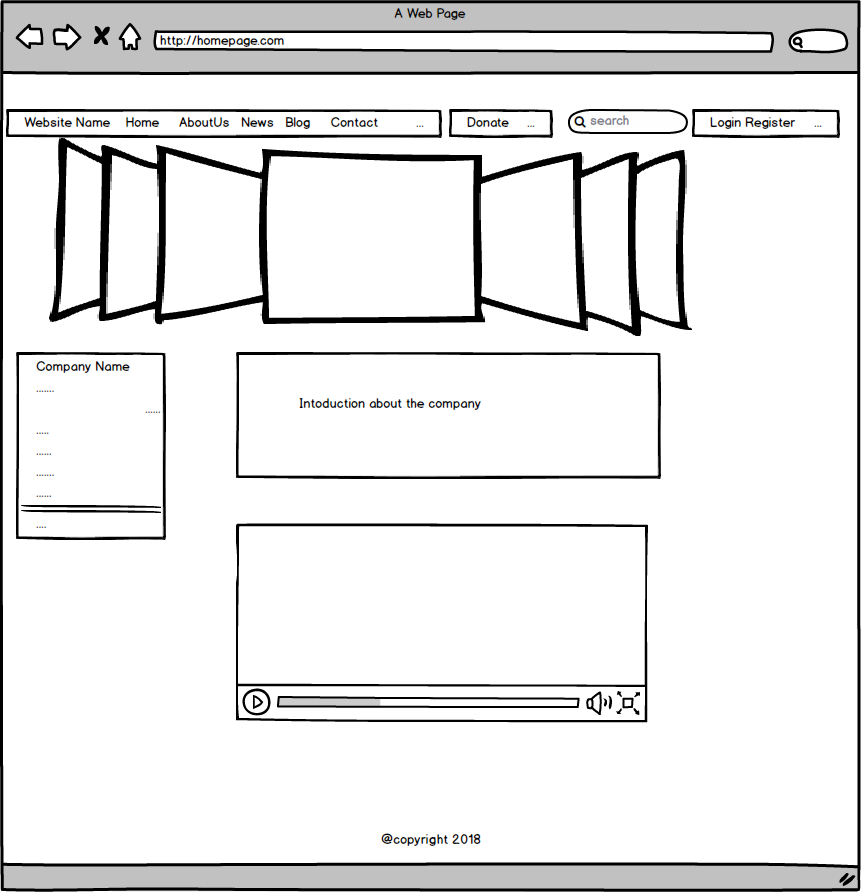
Reasons for changes

No indicator to say whether user is a Customer or Company. This is done in the PHP code. Added options to Register too.

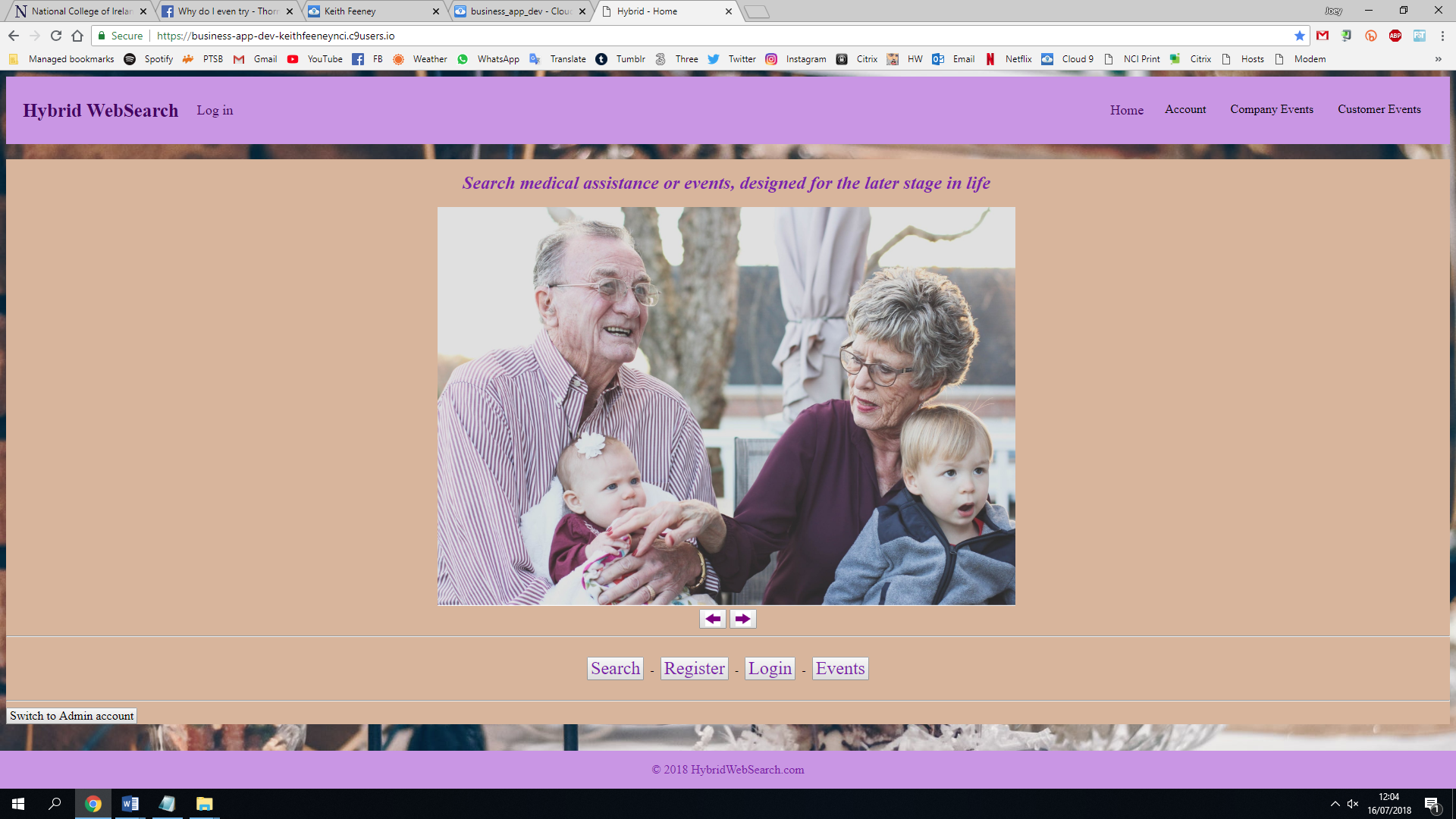
1. Home Page

This is a home page of our website show in the picture which is our first page.

Week 4 version



Week 12 Version



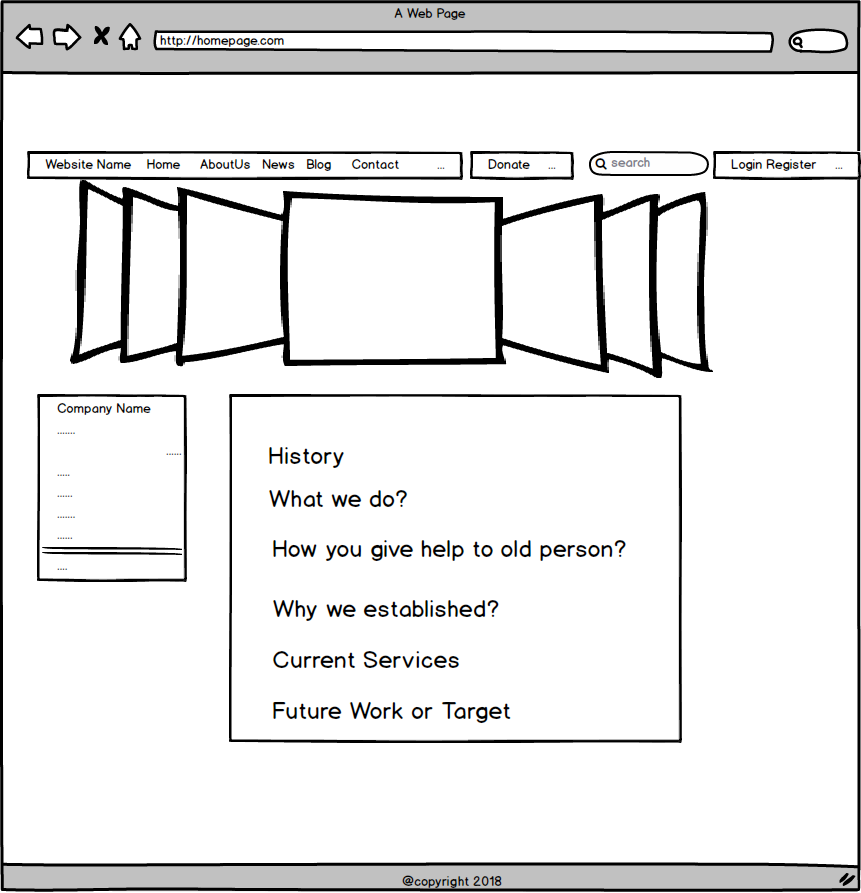
Reasons for changes

No search box at this was too difficult to implement on the header and link it correctly. The image changes every 7.5 seconds. The “Switch to Admin account” button is there for demonstration purposes only and would be removed if this was being given to the client.

1. About Page

This is the about page shown in this picture.

Week 4 version



Week 12 Version

Not created

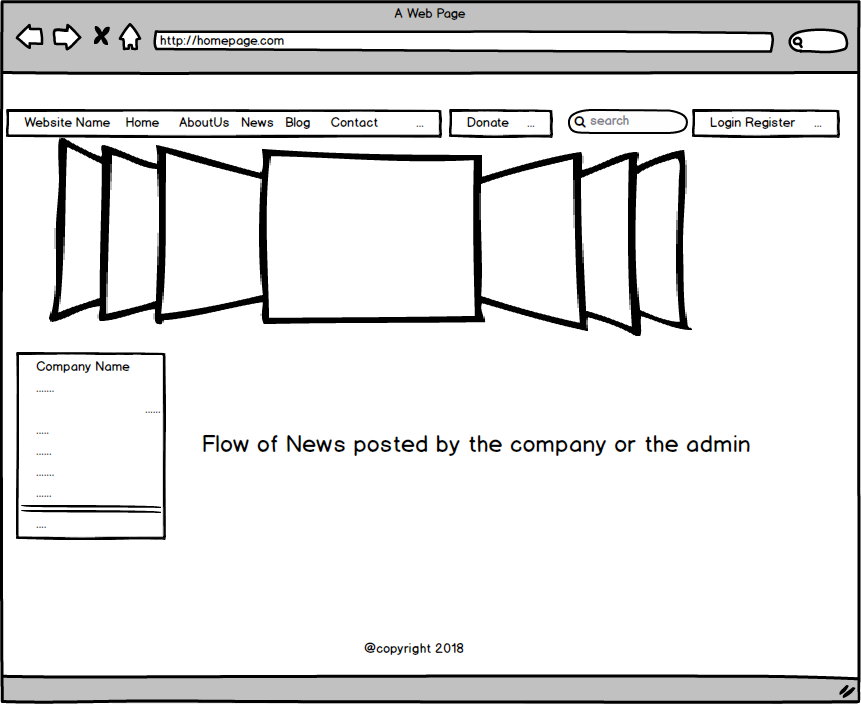
Reasons for changes

An about page is a very general HTML/PHP page. If this was being given to the client, a template would be provided.

1. News Pages

This is the new pages shown in this picture.

Week 4 version



Week 12 Version

Not created

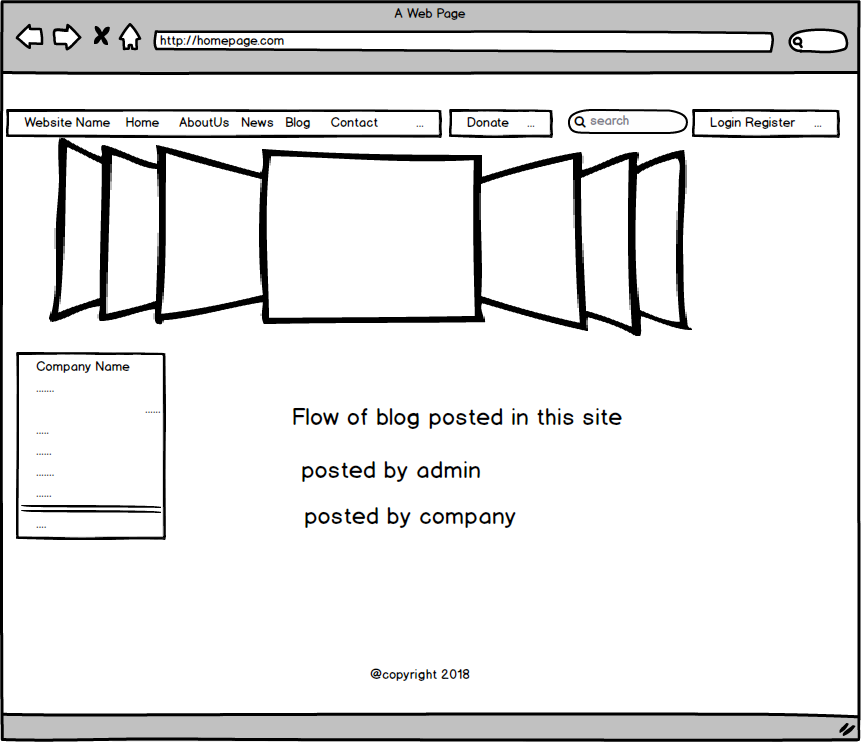
Reasons for changes

Not provided as it was outside the scope of the project.

1. Blog Page

This is the blog page shown in this picture.

Week 4 version



Week 12 Version

Not created

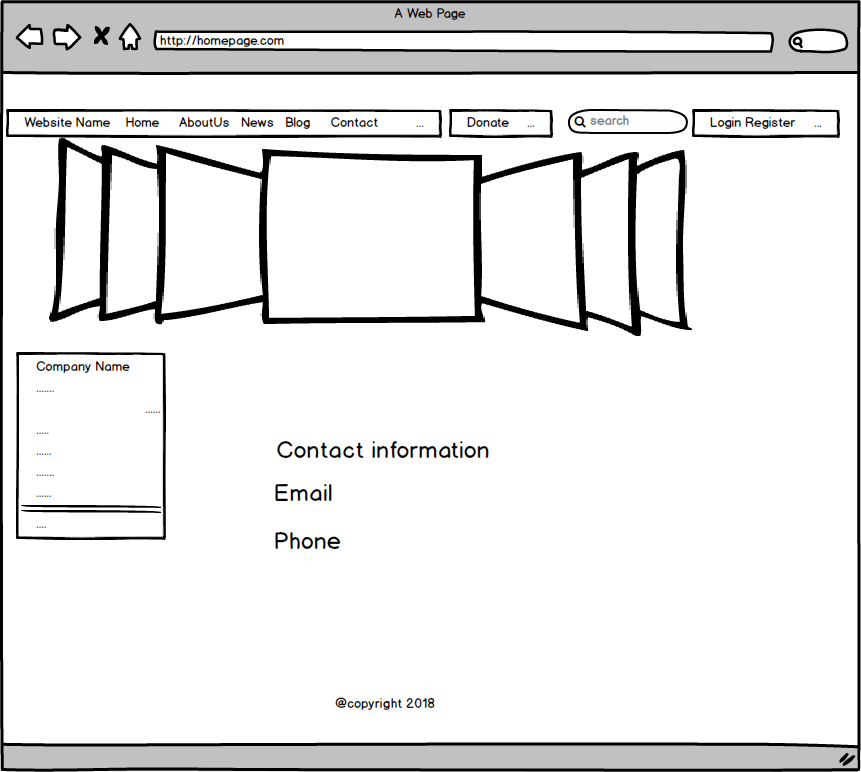
Reasons for changes

Not provided as it was outside the scope of the project.

1. Contact Page

This is the contact page shown in this picture.

Week 4 version



Week 12 Version

Not created

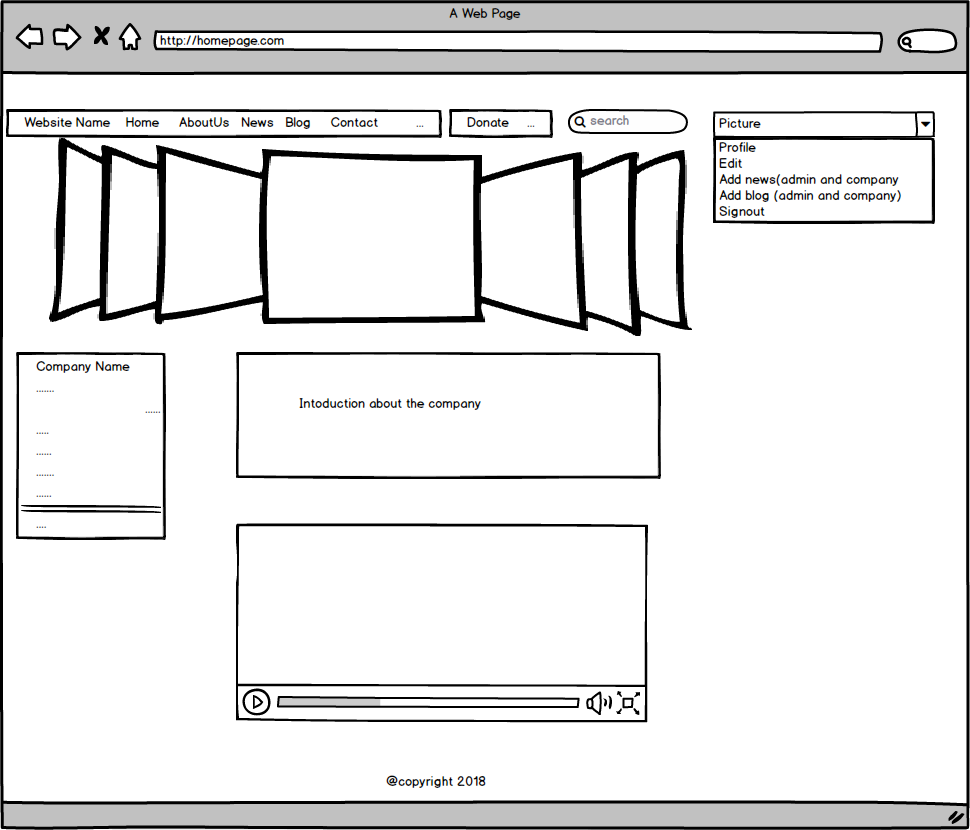
Reasons for changes

An contact page is a very general HTML/PHP page. If this was being given to the client, a template would be provided.

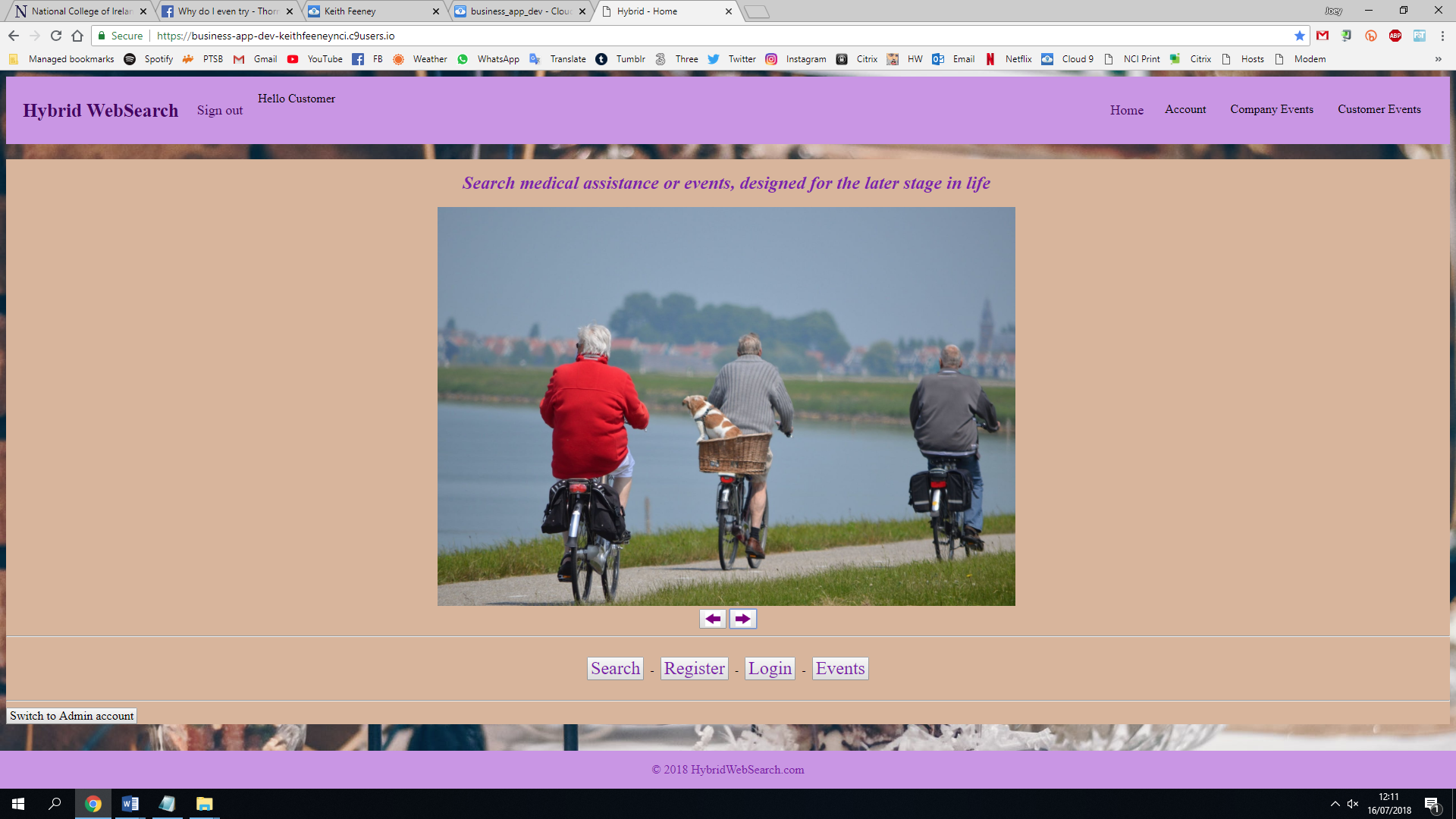
1. After Login Home Page

This is the after login home page shown in the picture.

Week 4 version



Week 12 Version



Reasons for changes

In the header, the Log in button is changed to Sign out, it also has Hello First\_Name.

## Technical Specification

[Green denotes changes]

Our project website would include a wide range of technologies to work and run properly, so we are using Bootstrap, HTML, CSS, JavaScript, PHP and MySQL.

### Bootstrap (HTML, CSS)

Bootstrap is affective front-end framework which could be used with HTML5 and CSS to build responsive websites or applications. We will use Bootstrap so that our application could work easily on all phones, tablets and desktops. Bootstrap is very good when it comes to mobile useable websites. Bootstrap has no limitation over the use of browser so there would be no problem when we run our website on any browser whether it is on mobile, tablet or desktop.

We would use Bootstrap forms for the companies and users who could easily register themselves and find the right choice for them to get the services. Bootstrap will work as our front-end or User—end view.

### PHP

PHP is Server-side scripting language. We would use PHP to create, update or delete or closing the files on the server side. We will use it one back-end. We would create dynamic content to put on the Bootstrap created pages. We will use PHP scripts to control the user’s access to the website. We will use PHP as security of the website as well. We will integrate PHP with MySQL which will our database to store data on the server so we could use PHP to restore, delete or even update data from the server. PHP is able to contain text, HTML, CSS, JavaScript and PHP code.

### MySQL

We will mainly use MySQL to get data from the user through Bootstrap forms as registration page. We would save this incoming information in MySQL over a server and when the user will try to log in then this MySQL database will match that info with info present on the database then it will let the user to get into website with the access to connect with companies and charities present on the website. We would be able to update, delete and create data whenever needed. Companies and charities data would be saved on our server in MySQL.

Bootstrap, PHP and MySQL including HTML, CSS and JavaScript will be integrated with each other to make a website which would be working fully at any browser and any device with full capabilities.

### PHPMyAdmin

PHPMyAdmin was also used to view the MySQL tables in the browser to edit some information. Cloud 9 has PHPMyAdmin built-in.

**[20% of Marks]**

# Self reflective analysis of the initial Gantt chart submitted - Chenlei

Each group was required to de-couple their project into manageable chunks and create a suitable Gantt Chart to illustrate the timeline for their project. Groups should now evaluate their initial expectations and provide a new updated Gantt chart with the actual build times completed. A discussion should also be included to give insight into the differences between both graphs submitted. **[30% of Marks]**

# Discussion on the benefits of using SCRUM - Surendra

Groups should consider if the project was completed easier by following a typical SCRUM model. **[20% of Marks]**

# Challenges Encountered - Ali

This section should encapsulate the main technical challenges that where encountered throughout the development build and how they were tackled. **[20% of Marks]**

# Conclusion and Future Work

This section should conclude with a discussion centered around the groups experience with working in a team and the future expectations that the group have for their product. **[10% of Marks]**