Sprint 2

Group 14

<u>Authors</u>

Luke Moss

Mark Madden

Scott Strothmann

Eric Song

Yaoxuan Luan

<u>Database Deployment</u>

MySQL database deployed on Azure in tandem with Ubuntu Virtual Machine for website development hosting.

DDL for base database tables:
https://drive.google.com/open?id=0B_Rbp0XRbRZETFBDTzJkVnBzZmM

Link to website:
http://swegroup14.centralus.cloudapp.azure.com/

Testing Scenarios

Activity	Testing Content	Result
Create several different accounts with different types	Account create	
Check the functionalities for different type ccount	Account type	
Add, remove content for profile	Edit profile	
Post job information with description and requirements	Job description/requirements	
Sort job board	Sort by Time/Type	
Login with correct username and password, correct username,wrong password.	User Identification	
Search keyword by the university name	University search	
Search keyword by the zip code	Location search	
Open resume online then edit it	Resume review/edit	
Make comment for person	Person comment	
Use the system without login then login the system, find out the differences	Limit user based on their being login or not Allow user use part of functionalities without login	
After login, post resume-like work experience and education information	The software needs to provide registered users the ability to post resume-like work experience and education information	
Check the work experience table and education table in the database		

Unit Test

For Model:Database Testing

Check the ERD of the database, find out anything incorrect with relationship.
Insert, delete, edit data for the cell of each table in database.
Using SQL to output the data in the database.

For Controller: PHP code

Using php compiler to find the main problem of the code.
Writing the test function to check each function output correctly.
Using framework such as PHPUnit to help with unit test.
Input data into database from website and check that it was stored properly.

Regression testing

Regression testing is a type of software testing that verifies that software that was previously developed and tested still performs correctly after it was changed or interfaced with other software. Changes may include software enhancements, patches, configuration changes, etc. During regression testing new software bugs or *regressions* may be uncovered. Sometimes a software change impact analysis is performed to determine what areas could be affected by the proposed changes. These areas may include functional and nonfunctional areas of the system. --Wikipedia

Testing plan:
Determining what is changed in the code and what is that changed mean to implement in the view. Run the program to check whether the implementation is the same as expect. Do the regression testing every time fix a bug or make enhancement to the code.

Integration testing

This test is to test program components integrate and interact as expected. We will use Bottom Up Testing to perform integration testing. Bottom-up testing is an approach to integrated testing where the lowest level components are tested first, then used to facilitate the testing of higher level components. The process is repeated until the component at the top of the hierarchy is tested. All the bottom or low-level modules, procedures or functions are integrated and then tested. After the integration testing of lower level integrated modules, the next level of modules will be formed and can be used for integration testing.

We may make the integration testing after the Unit Testing.

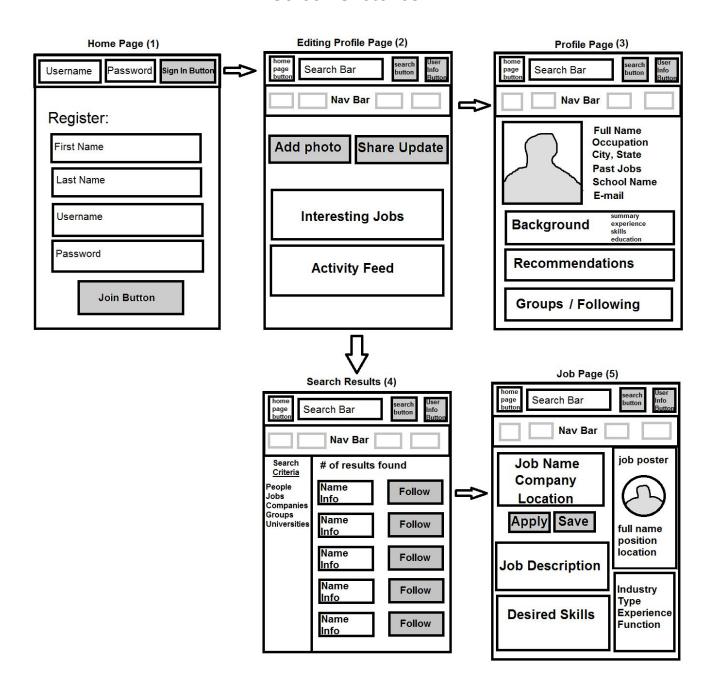We need to make some components integrated. For example, PHP integrates with database, PHP integrates with HTML, various function integrates with database in HTML, functional requirements integrate with non-functional requirements.

Verification tests: Unit Testing
                        Regression testing
                        Integration testing
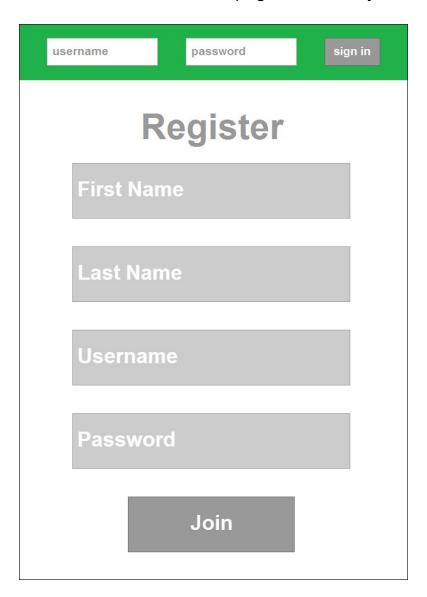
Validation tests: User acceptance testing

Screen Sketches

Home Page (1)

Username	Password	Sign In Button

Register:

First Name

Last Name

Username

Password

Join Button

Editing Profile Page (2)

home page button	Search Bar	search button	User Info Button

| | | Nav Bar | | |

Add photo   Share Update

Interesting Jobs

Activity Feed

Profile Page (3)

home page button	Search Bar	search button	User Info Button

| | | Nav Bar | | |

Full Name
Occupation
City, State
Past Jobs
School Name
E-mail

Background — summary experience skills education

Recommendations

Groups / Following

Search Results (4)

home page button	Search Bar	search button	User Info Button

| | | Nav Bar | | |

Search Criteria

People
Jobs
Companies
Groups
Universities

# of results found

Name Info	Follow
Name Info	Follow
Name Info	Follow
Name Info	Follow
Name Info	Follow

Job Page (5)

home page button	Search Bar	search button	User Info Button

| | | Nav Bar | | |

Job Name
Company
Location

Apply   Save

Job Description

Desired Skills

job poster

full name
position
location

Industry
Type
Experience
Function

Above are the different types of screens that a user can see.
On the first page, which is the home page, signing in with a correct username and password by clicking the sign in button will take you to the second page. The second page is your the version of your profile page that you can edit. A user is then able to view the actual profile page by pressing a button on the navigation bar, taking you to the third page. From the second or third page, a user is able to use the search bar. This takes the user to the fourth page, allowing them to see the search results. Clicking on one of the search results takes you to the last page, displaying its info.

This is a preview of what the first web page will actually look like.

Interactive UI element

Homepage

- Username text field for containing the username.
- Password text field for containing the password.
- Sign in button is for submitting the username and password via SQL and PHP.
- Four text fields containing first name, last name, username and password are required element for register new account.
- Clicking Join button to submit the account information to database.

Editing page

- Homepage button will lead user return to the homepage.
- Searching bar contains the search keywords.
- User info button will display user information in database after click.
- Add photo button will read a photo file locally.
- Share update button will update the user information.

Profile page

- Homepage button will lead user return to the homepage.
- Searching bar contains the search keywords.
- User info button will display user information in database after click.

Search result page

- Homepage button will lead user return to the homepage.
- Searching bar contains the search keywords.
- User info button will display user information in database after click.
- Follow button will make a foreign key in user table.

Job page

- Homepage button will lead user return to the homepage.
- Searching bar contains the search keywords.
- User info button will display user information in database after click.
- Apply button will send request or notification to the specific user who post the job.
- Save button will save the information of employer for later checking.