**LinkedOut**

Requirements Analysis and System Design

Group 14

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**Website Links**

Github: <https://github.com/MaddenMark1495/Career-Based-Social-Network>

# Google Drive: <https://drive.google.com/open?id=0B0t_K_ZGId4eSV9mUGlhRkVLQkE>

**Database Deployment**

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/>

**Changelog**

V0.1 2-25-2016 Requirement analysis rough draft created

V1.0 3-20-2016 Initial requirement analysis document completed

V1.5 3-25-2016 Sprint 1: database deployment, testing, & user interface

V2.0 4-10-2016 Spring 2: queries, stub-calls, organization UIs, user roles

**Glossary**

**Activity Feed -** Displays activity from your network, such as comments and profile changes.

**Company Page -** A page for companies to share information about their business and to make updates.

**Connection -** An indication that someone has accepted an invitation to connect, allowing the viewing of each other's profiles.

**Degrees –** How you are connected to others through people or groups.

**Follow –** A way to see updates in your news feed from people you are interested in.

**Group -** Allows users to come together and meet on a single page to communicate about a common subject.

**Headline –** Informative and concise information about your prospects.

**Inbox -** A place where messages can be sent, received, and viewed.

**Introduction -** A way for someone to bring two people who are not connected together.

**Invitation -** A notification to a user to join a network and form a new connection.

**Mention -** A tag that links a person or company in a post to their corresponding page.

**Message -** A private form of communication between two connected users.

**Network -** A group of users that one is connected to and can contact.

**Profile -** A page for users to share information about themselves, their job history, and experience.

**Recommendation -** A comment intended to commend someone, based on their experience, to viewers of their profile.

**Update -** Status changes and posts that appear on activity feeds.

**Project Summary**

# The project’s name is LinkedOut and it is a career-based social network designed for the professional business community. The goal of this site is to have users establish connections with other users on a professional level. A user has the option to create a profile page where they can display their professional experience and achievement, such as education and employment history. A user can then connect to other users and share this information with them.

# LinkedOut has many features, but one of its main features is a messaging tool that allows users who are connected to communicate with each other privately. The application as a whole can be used in such a way that a user can create a professional brand for themselves. By doing so, a user can pursue their career passion by browsing profiles and connecting with professionals in their field, turning professional relationships into opportunities.

**Functional & Non-Functional Requirements**

**Functional requirements:**

* User can create accounts:
  + Users can set up account type
  + Users can edit account profile
* Job board:
  + Users can post jobs:
    - Users can post job descriptions/requirements
  + Users can make jobs displayed on the job board:
    - Users can make the posted jobs sorted by time or type
    - Users can save Jobs
* Apply:
  + Users can send Resume

**Non-functional requirements:**

* Security:
  + Users can has identification number
* Notifications:
  + Users can receive email notifications
* Search engine:
  + Users can search by university
  + Users can search by interests
  + Users can search by location
* File Review Online:
  + Users can review/edit resume online
  + Users can review/edit job descriptions
* Comments:
  + Users can post comments to company
  + Users can post comments to person

**User & System Requirements**

**User Requirements:**

* The software needs to limit what users can or cannot see based on their being logged in or not and/or linked with someone or not.
  + Use $\_SESSION variables to track users’ status across application usage.
  + Data - usernames, hashed passwords, links table (“friends”).
* The software needs to provide registered users the ability to post resume-like work experience and education information.
  + Work experience table
  + Education table
* The software needs to allow user to search jobs.
* The job information table
* The software needs to allow to use part of functionality without login

**System Requirements:**

* MySQL Database
* Web server with PHP enabled
* Javascript Libraries - jQuery, D3.js

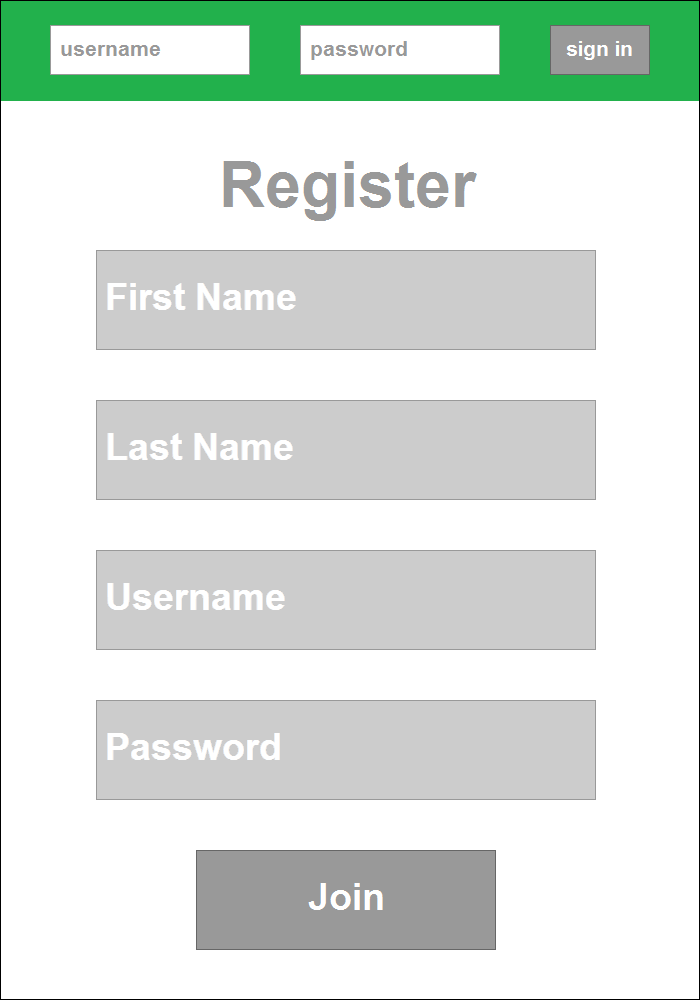
HTML, CSS

**Use Case Diagram**

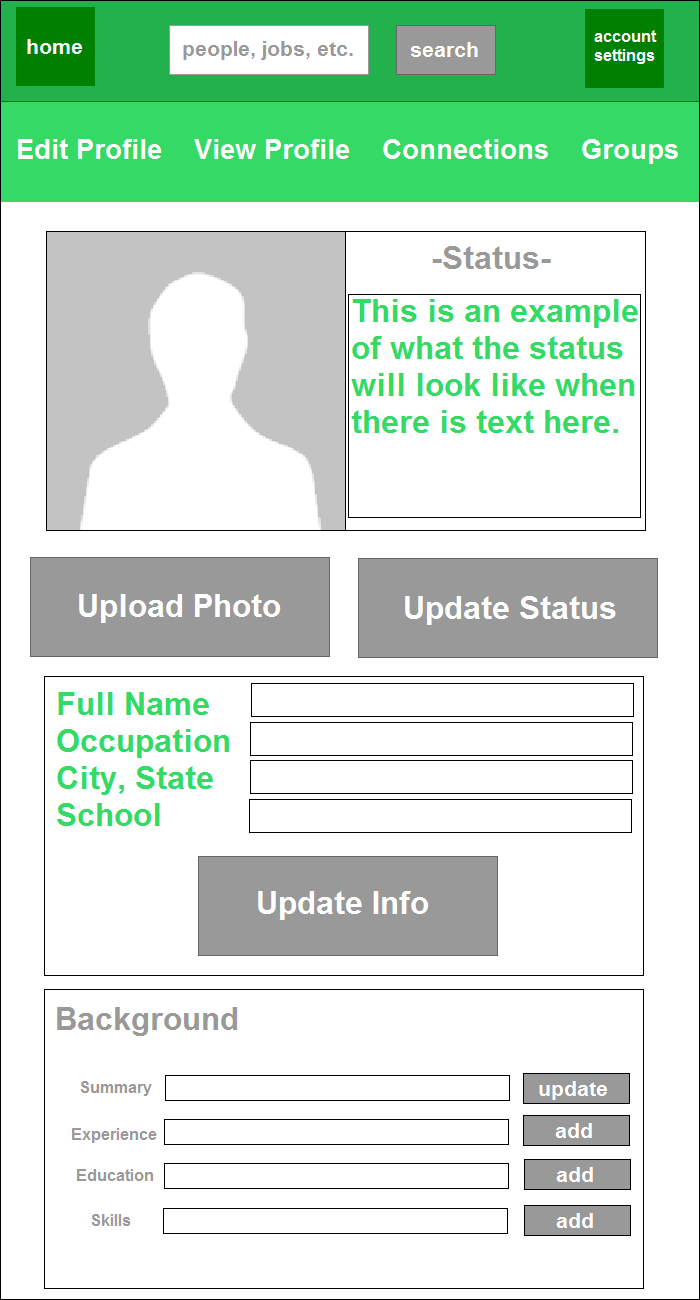
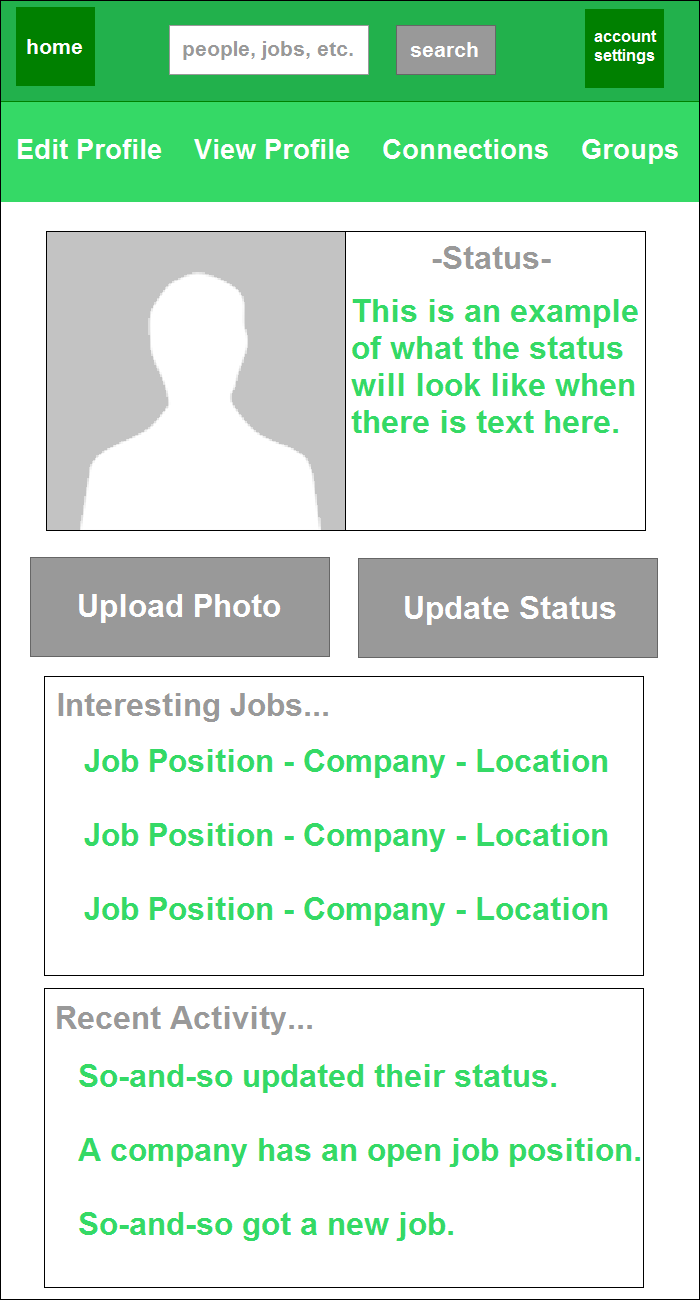
Linekdin (1).png

**Design (User Interface)**

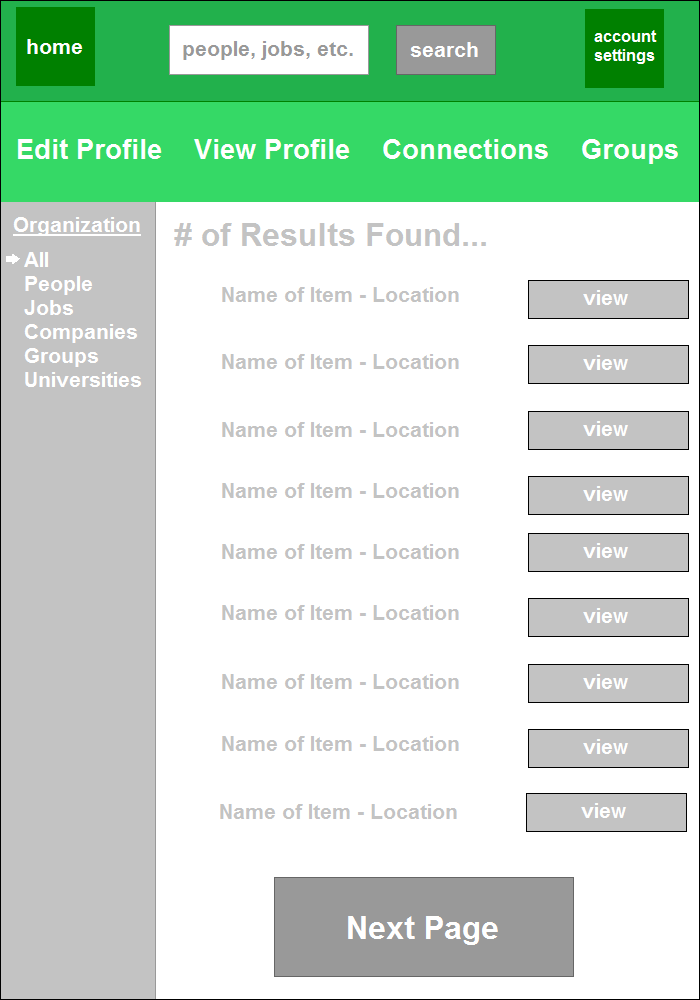
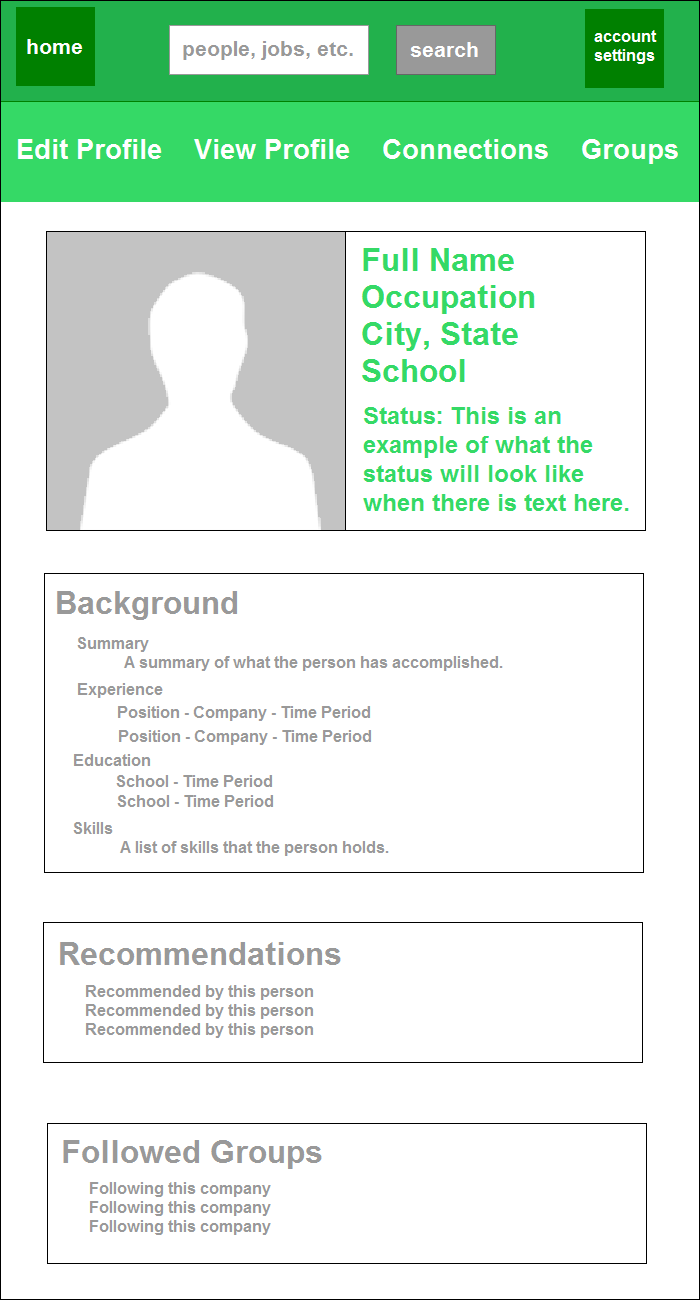
1. Sign-in and Registering Page



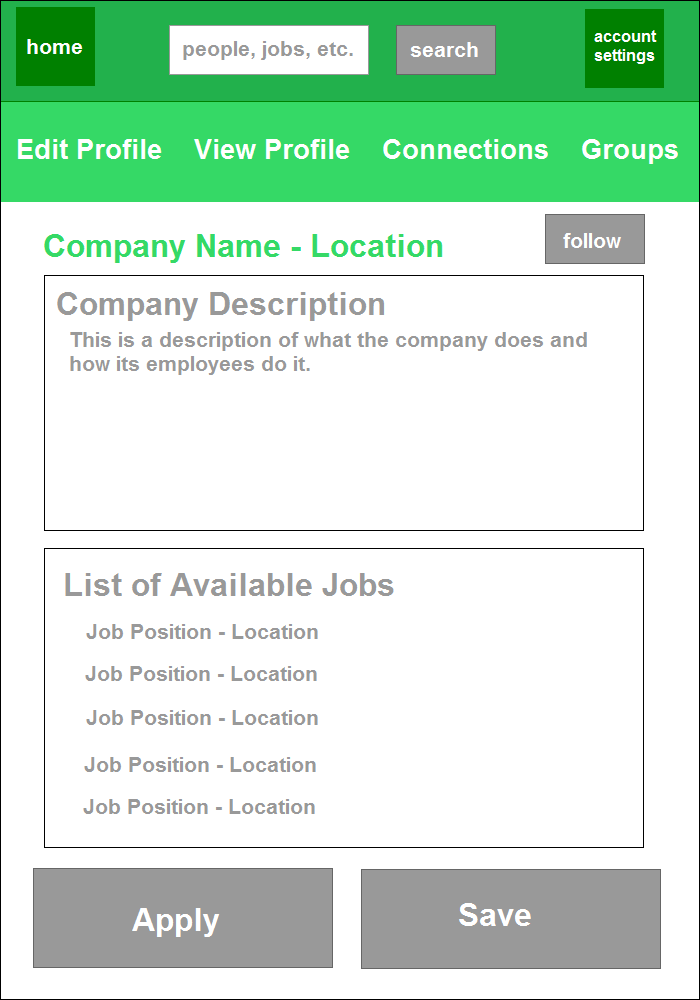
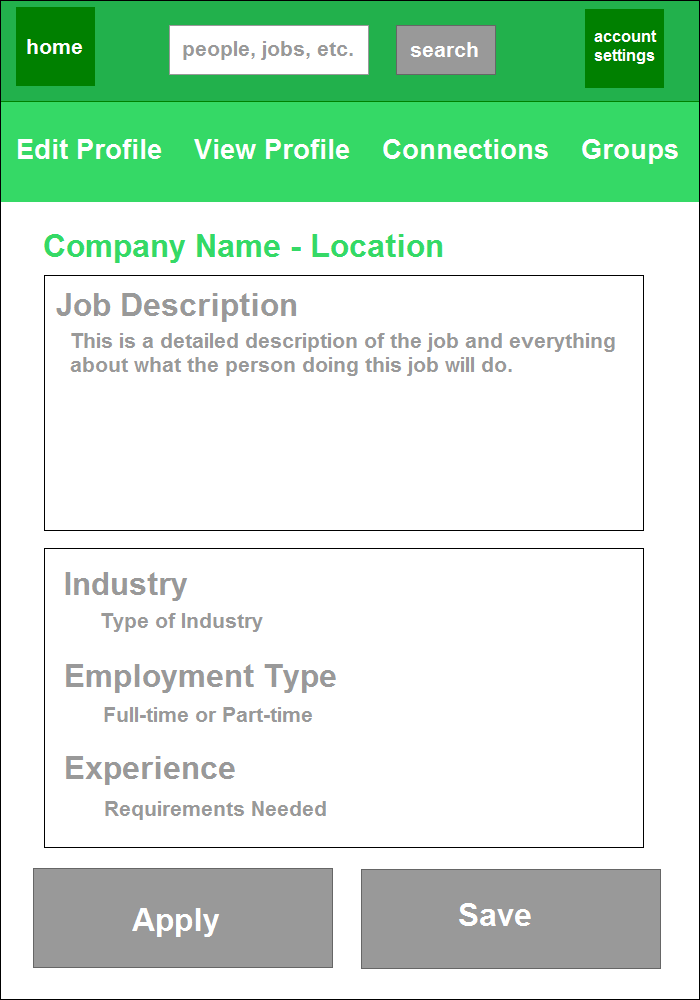
2. User Home Page 3. Profile Editing Page



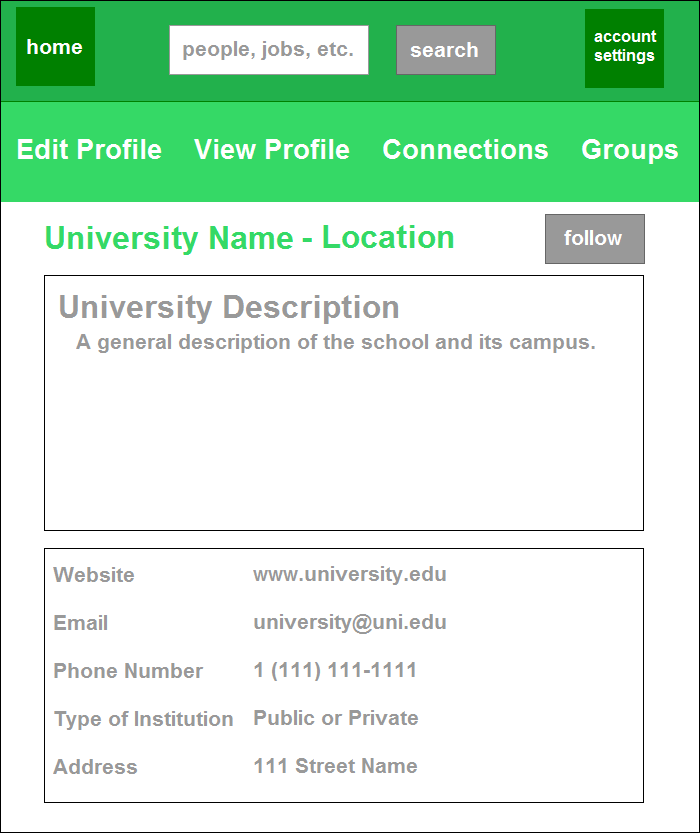
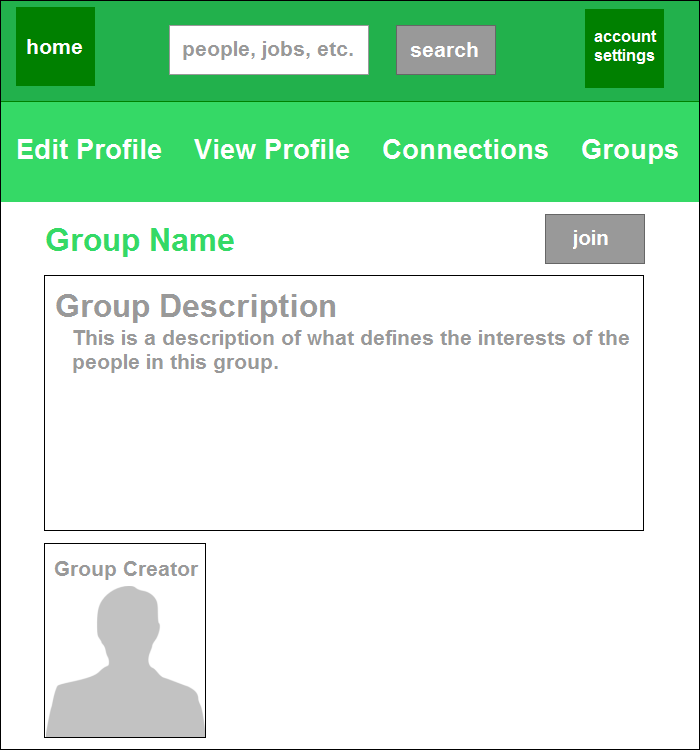
4. Profile View Page 5. Search Page



6. Job View Page 7. Company View Page



8. Group View Page 9. University View Page



Above are the different types of screens that a user will be able to see.

On the first page, which is the main 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 the version of your profile page that acts as your home page. To edit the profile, a user clicks the edit profile link from the nav bar to access the third page which allows users to edit all of their details. A user is then able to view the actual profile page by pressing the view profile link on the navigation bar, taking you to the fourth page. After signing into an account, a user is able to use the search bar. This takes the user to the fifth page, allowing them to see the search results. Clicking on one of the search results takes you to either a job opening page or one of the three organization pages to view all of its information.

**Stub-Call Interactive UI Elements**

Sign-in and Registering Page:

* 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 contain first name, last name, username and password are required element for register new account.
* Clicking Join button to submit the account information to database.

Duplicate Interactive UI element:

* Since there are many duplicate buttons, I’ll only describe the duplicate button one time in order to make the description clear. These button appear in all the pages below.
* 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.
* Edit profile button is switch to the profile editing page.
* View profile button is switch to profile view page.
* Connection button is to see the account connection.
* Group button is to view the groups are connected to the account.

User Home Page:

* Update photo button sends update query to the database in order to update the photo.
* Update status button sends update query to the database in order to update the status information.

Profile Editing Page:

* Full name, occupation, city, states, school, summary, experience, education and skills text field contain the text will pass to the database via SQL.
* Update Info and Update button will send query order to database to update the information.

Profile View Page:

* The four text fields display the summary, background,recommendations, followed group information about this account user.

Search Page:

* Home, search,account setting, edit profile, view profile,connections and groups button which are the same to the previous page.
* The listed button in the left side of the page will display the results which only contain selected keyword.
* Next page button will display the next nine.
* View button will turn into job, company, group or university view page.

Job View Page:

* The main content in the page is the description for the job in the text area in the page which is not editable for user.
* Apply button will send request or notification to the specific user who post the job.
* Save button will save the information of employer into database for checking later.

Company View Page:

* Follow button will save the company information to the account, it can be implemented by store an ID of the company into the account database.

Group View Page:

* Text field displays the information about the group.
* Join button will send a request to the administrator or any authorized people of the group, after the administrator or the authorized people accept the request, the user will be in the group.

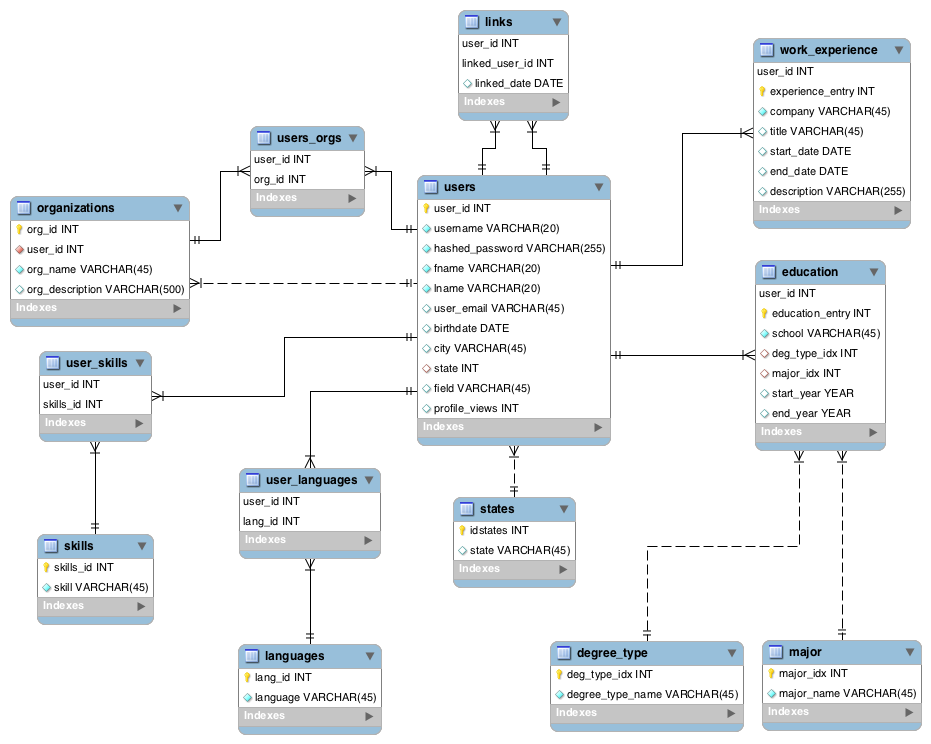
University View Page:

* Text field display the information such as website, contact email, phone number and address about the university.
* Follow button will save the company information to the account, it can be implemented by store an ID of the company into the account database.

**Software Component (UML Diagram)**

UMLSWE (3).png

**Table List (ERD)**



Links table is a relation table for many to many relationship of users with other users. Lookup can go both ways (i.e. if user 1 is linked to user 2, no need to link user 2 to user 1 as a separate entry in the table). User 1 is linked to everyone where user 1 is the username and where user 1 is the linked\_username.

**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 Testing**

**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

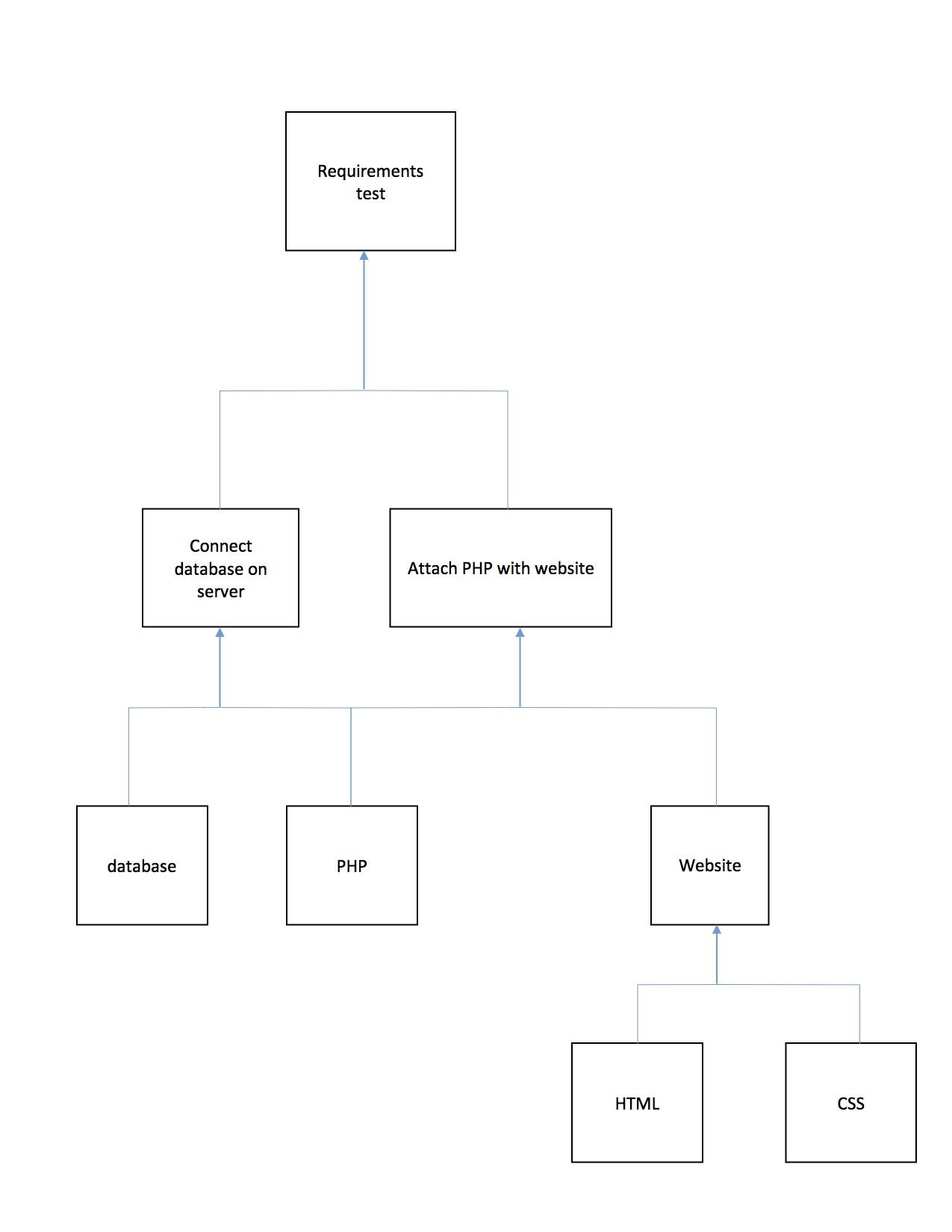
**Testing Plan:**

Determining what is changed in the code and what that change means in the implementation of the view. Run the program to check whether the implementation is the same as expected. Do this regression testing every time a change is big change is added to fix bugs or make enhancement to the code.

**Integration Testing**

This test is to test program components that have been integrated so that users can interact with them 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 they are used to facilitate the testing of higher level components. This 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 because 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

## **Management of users**

## 

## Individuals:

## Basic account

## A Basic account is for anyone who wants to create and maintain professional profile online.

## Individual users can create, edit and delete individual profiles

## Individual users can build user professional identity on the web.

## Individual users can build and maintain a large trusted professional network.

## Individual users can find and reconnect with colleagues and classmates.

## Individual users can request and provide recommendations.

## Individual users can request up to five introductions at a time.

## Individual users can search for and view profiles of other members.

## Individual users can receive unlimited online messages.

## Individual users can save up to three searches and get weekly alerts on those searches.

## 

## Premium accounts

## Premium account options for job seekers, sales and talent professionals, as well as the general professional who wants to get more offline.

## Land dream job with Job Seeker

## Unlock sales opportunities with Sales Navigator

## Find and hire talent with Recruiter Lite

## 

## 

## Companies:

## Only users with individual pages can create company pages

## Company user can add and edit a company page

## Company user can add and remove administrator for company page

## Company user can add and remove employees to company page

## Company user can see a list of visitors to the page

## Company user can create, edit and delete job list of the company page

## Database DDL

Database Creation SQL: <https://github.com/MaddenMark1495/Career-Based-Social-Network/blob/master/DDL/LinkedOut.sql>

-- MySQL Script generated by MySQL Workbench

SET @OLD\_UNIQUE\_CHECKS=@@UNIQUE\_CHECKS, UNIQUE\_CHECKS=0;

SET @OLD\_FOREIGN\_KEY\_CHECKS=@@FOREIGN\_KEY\_CHECKS, FOREIGN\_KEY\_CHECKS=0;

SET @OLD\_SQL\_MODE=@@SQL\_MODE, SQL\_MODE='TRADITIONAL,ALLOW\_INVALID\_DATES';

-- -----------------------------------------------------

-- Schema linkedout

-- -----------------------------------------------------

-- -----------------------------------------------------

-- Schema linkedout

-- -----------------------------------------------------

CREATE SCHEMA IF NOT EXISTS `linkedout` DEFAULT CHARACTER SET utf8 ;

USE `linkedout` ;

-- -----------------------------------------------------

-- Table `linkedout`.`states`

-- -----------------------------------------------------

DROP TABLE IF EXISTS `linkedout`.`states` ;

CREATE TABLE IF NOT EXISTS `linkedout`.`states` (

`idstates` INT NOT NULL,

`state` VARCHAR(45) NULL,

PRIMARY KEY (`idstates`))

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `linkedout`.`users`

-- -----------------------------------------------------

DROP TABLE IF EXISTS `linkedout`.`users` ;

CREATE TABLE IF NOT EXISTS `linkedout`.`users` (

`user\_id` INT NOT NULL AUTO\_INCREMENT,

`username` VARCHAR(20) NOT NULL,

`hashed\_password` VARCHAR(255) NOT NULL,

`fname` VARCHAR(20) NOT NULL,

`lname` VARCHAR(20) NOT NULL,

`user\_email` VARCHAR(45) NULL,

`birthdate` DATE NULL,

`city` VARCHAR(45) NULL,

`state` INT NULL,

`field` VARCHAR(45) NULL,

`profile\_views` INT NULL DEFAULT 0,

PRIMARY KEY (`user\_id`),

UNIQUE INDEX `username\_UNIQUE` (`username` ASC),

INDEX `state\_idx` (`state` ASC),

UNIQUE INDEX `user\_id\_UNIQUE` (`user\_id` ASC),

CONSTRAINT `user\_state`

FOREIGN KEY (`state`)

REFERENCES `linkedout`.`states` (`idstates`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `linkedout`.`work\_experience`

-- -----------------------------------------------------

DROP TABLE IF EXISTS `linkedout`.`work\_experience` ;

CREATE TABLE IF NOT EXISTS `linkedout`.`work\_experience` (

`user\_id` INT NOT NULL,

`experience\_entry` INT NOT NULL,

`company` VARCHAR(45) NOT NULL,

`title` VARCHAR(45) NULL,

`start\_date` DATE NULL,

`end\_date` DATE NULL,

`description` VARCHAR(255) NULL,

PRIMARY KEY (`user\_id`, `experience\_entry`),

CONSTRAINT `w\_user`

FOREIGN KEY (`user\_id`)

REFERENCES `linkedout`.`users` (`user\_id`)

ON DELETE CASCADE

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `linkedout`.`degree\_type`

-- -----------------------------------------------------

DROP TABLE IF EXISTS `linkedout`.`degree\_type` ;

CREATE TABLE IF NOT EXISTS `linkedout`.`degree\_type` (

`deg\_type\_idx` INT NOT NULL AUTO\_INCREMENT,

`degree\_type\_name` VARCHAR(45) NOT NULL,

PRIMARY KEY (`deg\_type\_idx`),

UNIQUE INDEX `deg\_type\_idx\_UNIQUE` (`deg\_type\_idx` ASC))

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `linkedout`.`major`

-- -----------------------------------------------------

DROP TABLE IF EXISTS `linkedout`.`major` ;

CREATE TABLE IF NOT EXISTS `linkedout`.`major` (

`major\_idx` INT NOT NULL AUTO\_INCREMENT,

`major\_name` VARCHAR(45) NOT NULL,

PRIMARY KEY (`major\_idx`))

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `linkedout`.`education`

-- -----------------------------------------------------

DROP TABLE IF EXISTS `linkedout`.`education` ;

CREATE TABLE IF NOT EXISTS `linkedout`.`education` (

`user\_id` INT NOT NULL,

`education\_entry` INT NOT NULL,

`school` VARCHAR(45) NOT NULL,

`deg\_type\_idx` INT NULL,

`major\_idx` INT NULL,

`start\_year` YEAR NULL,

`end\_year` YEAR NULL,

PRIMARY KEY (`user\_id`, `education\_entry`),

INDEX `deg\_type\_idx\_idx` (`deg\_type\_idx` ASC),

INDEX `major\_idx\_idx` (`major\_idx` ASC),

CONSTRAINT `ed\_user`

FOREIGN KEY (`user\_id`)

REFERENCES `linkedout`.`users` (`user\_id`)

ON DELETE CASCADE

ON UPDATE NO ACTION,

CONSTRAINT `deg\_type\_idx`

FOREIGN KEY (`deg\_type\_idx`)

REFERENCES `linkedout`.`degree\_type` (`deg\_type\_idx`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `major\_idx`

FOREIGN KEY (`major\_idx`)

REFERENCES `linkedout`.`major` (`major\_idx`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `linkedout`.`links`

-- -----------------------------------------------------

DROP TABLE IF EXISTS `linkedout`.`links` ;

CREATE TABLE IF NOT EXISTS `linkedout`.`links` (

`user\_id` INT NOT NULL,

`linked\_user\_id` INT NOT NULL,

`linked\_date` DATE NULL,

PRIMARY KEY (`user\_id`, `linked\_user\_id`),

INDEX `linked\_username\_idx` (`linked\_user\_id` ASC),

CONSTRAINT `user1`

FOREIGN KEY (`user\_id`)

REFERENCES `linkedout`.`users` (`user\_id`)

ON DELETE CASCADE

ON UPDATE NO ACTION,

CONSTRAINT `user2`

FOREIGN KEY (`linked\_user\_id`)

REFERENCES `linkedout`.`users` (`user\_id`)

ON DELETE CASCADE

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `linkedout`.`organizations`

-- -----------------------------------------------------

DROP TABLE IF EXISTS `linkedout`.`organizations` ;

CREATE TABLE IF NOT EXISTS `linkedout`.`organizations` (

`org\_id` INT NOT NULL,

`user\_id` INT NOT NULL,

`org\_name` VARCHAR(45) NOT NULL,

`org\_description` VARCHAR(500) NULL,

PRIMARY KEY (`org\_id`),

INDEX `org\_admin\_idx` (`user\_id` ASC),

CONSTRAINT `org\_admin`

FOREIGN KEY (`user\_id`)

REFERENCES `linkedout`.`users` (`user\_id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `linkedout`.`users\_orgs`

-- -----------------------------------------------------

DROP TABLE IF EXISTS `linkedout`.`users\_orgs` ;

CREATE TABLE IF NOT EXISTS `linkedout`.`users\_orgs` (

`user\_id` INT NOT NULL,

`org\_id` INT NOT NULL,

PRIMARY KEY (`user\_id`, `org\_id`),

INDEX `org\_idx` (`org\_id` ASC),

CONSTRAINT `uo\_user`

FOREIGN KEY (`user\_id`)

REFERENCES `linkedout`.`users` (`user\_id`)

ON DELETE CASCADE

ON UPDATE NO ACTION,

CONSTRAINT `uo\_org`

FOREIGN KEY (`org\_id`)

REFERENCES `linkedout`.`organizations` (`org\_id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `linkedout`.`skills`

-- -----------------------------------------------------

DROP TABLE IF EXISTS `linkedout`.`skills` ;

CREATE TABLE IF NOT EXISTS `linkedout`.`skills` (

`skills\_id` INT NOT NULL AUTO\_INCREMENT,

`skill` VARCHAR(45) NOT NULL,

PRIMARY KEY (`skills\_id`))

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `linkedout`.`user\_skills`

-- -----------------------------------------------------

DROP TABLE IF EXISTS `linkedout`.`user\_skills` ;

CREATE TABLE IF NOT EXISTS `linkedout`.`user\_skills` (

`user\_id` INT NOT NULL,

`skills\_id` INT NOT NULL,

PRIMARY KEY (`user\_id`, `skills\_id`),

INDEX `us\_skill\_idx` (`skills\_id` ASC),

CONSTRAINT `us\_user`

FOREIGN KEY (`user\_id`)

REFERENCES `linkedout`.`users` (`user\_id`)

ON DELETE CASCADE

ON UPDATE NO ACTION,

CONSTRAINT `us\_skill`

FOREIGN KEY (`skills\_id`)

REFERENCES `linkedout`.`skills` (`skills\_id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `linkedout`.`languages`

-- -----------------------------------------------------

DROP TABLE IF EXISTS `linkedout`.`languages` ;

CREATE TABLE IF NOT EXISTS `linkedout`.`languages` (

`lang\_id` INT NOT NULL AUTO\_INCREMENT,

`language` VARCHAR(45) NOT NULL,

PRIMARY KEY (`lang\_id`))

ENGINE = InnoDB;

-- -----------------------------------------------------

-- Table `linkedout`.`user\_languages`

-- -----------------------------------------------------

DROP TABLE IF EXISTS `linkedout`.`user\_languages` ;

CREATE TABLE IF NOT EXISTS `linkedout`.`user\_languages` (

`user\_id` INT NOT NULL,

`lang\_id` INT NOT NULL,

PRIMARY KEY (`user\_id`, `lang\_id`),

INDEX `ul\_lang\_idx` (`lang\_id` ASC),

CONSTRAINT `ul\_user`

FOREIGN KEY (`user\_id`)

REFERENCES `linkedout`.`users` (`user\_id`)

ON DELETE CASCADE

ON UPDATE NO ACTION,

CONSTRAINT `ul\_lang`

FOREIGN KEY (`lang\_id`)

REFERENCES `linkedout`.`languages` (`lang\_id`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;

SET SQL\_MODE=@OLD\_SQL\_MODE;

SET FOREIGN\_KEY\_CHECKS=@OLD\_FOREIGN\_KEY\_CHECKS;

SET UNIQUE\_CHECKS=@OLD\_UNIQUE\_CHECKS;

## Insert Statements:

--new user registration

INSERT INTO `linkedout`.`users` (`username`, `hashed\_password`, `fname`, `lname`)

VALUES (?, ?, ?, ?);

--link request accepted

INSERT INTO `linkedout`.`links` (`user\_id`, `linked\_user\_id`, `linked\_date`)

VALUES (?, ?, CURDATE());

--add new major

INSERT INTO `linkedout`.`major` (`major\_name`)

VALUES (?);

--add new degree type

INSERT INTO `linkedout`.`degree\_type` (`degree\_type`)

VALUES (?);

--add education entry to resume

INSERT INTO `linkedout`.`education` (`user\_id`, `education\_entry`, `school`, `deg\_type\_idx`, `major\_idx`, `start\_year`, `end\_year`)

VALUES (?, ?, ?, ?, ?, ?, ?);

--insert work experience entry

INSERT INTO `linkedout`.`work\_experience` (`user\_id`, `experience\_entry`, `company`, `title`, `start\_date`, `end\_date`, `description`)

VALUES (?, ?, ?, ?, ?, ?, ?);

--add new skill

INSERT INTO `linkedout`.`skills` (`skill`)

VALUES (?);

--add user skill

INSERT INTO `linkedout`.`user\_skills` (`user\_id`,`skill\_id`)

VALUES (?, (SELECT `skill\_id` FROM `linkedout`.`skills` WHERE `skill\_name` = ?));

--add new language

INSERT INTO `linkedout`.`languages` (`language`) VALUES (?);

--add user language

INSERT INTO `linkedout`.`user\_languages` (`user\_id`, `lang\_id`)

VALUES (?, (SELECT `lang\_id` FROM `linkedout`.`languages` WHERE `language` = ?));

--add new organization

INSERT INTO `linkedout`.`organizations` (`user\_id`, `org\_name`, `desription`)

VALUES (?, ?, ?);

--add new organization member

INSERT INTO `linkdedout`.`user\_orgs` (`user\_id`, `org\_id`)

VALUES (?, ?);

## Update Statements:

--general profile information change

UPDATE `linkedout`.`users`

SET /\*col1=val1, col2=val2, etc\*/

WHERE `user\_id` = ?;

--update education entry

UPDATE `linkedout`.`education`

SET /\*col1=val1, col2=val2, etc\*/

WHERE `user\_id` = ? AND `education\_entry` = ?;

--update work\_experience entry

UPDATE `linkedout`.`work\_experience`

SET /\*col1=val1, col2=val2, etc\*/

WHERE `user\_id` = ? AND `education\_entry` = ?;

--update organization

UPDATE `linkedout`.`organizations`

SET /\*col1=val1, col2=val2, etc\*/

WHERE `org\_id` = ?;

## Delete Statements:

--delete user profile (cascade deletes all other associations with this user\_id)

DELETE FROM `linkedout`.`users`

WHERE `user\_id` = ?;

--delete user skill

DELETE FROM `linkedout`.`user\_skills`

WHERE `user\_id` = ?;

--delete user language

DELETE FROM `linkedout`.`user\_languages`

WHERE `user\_id` = ?;

--delete user organization

DELETE FROM `linkedout`.`user\_orgs`

WHERE (`user\_id` = ? AND `org\_id` = ?);

--delete linked friend (not guaranteed which column user\_ids are in so have to check for both directions)

DELETE FROM `linkedout`.`links`

WHERE (`user\_id` = ? AND `linked\_user\_id` = ?)

OR (`user\_id` = ? AND `linked\_user\_id` = ?);

--delete education entry

DELETE FROM `linkedout`.`education`

WHERE (`user\_id` = ? AND `education\_entry` = ?);

--delete work experience entry

DELETE FROM `linkedout`.`work\_experience`

WHERE (`user\_id` = ? AND `experience\_entry` = ?);