

Final Project for SW Engineering Class  
CSC 648-848 Spring 2022

Team 3

“LinkedSF”

Date: 05/10/2022

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## Product Summary:

- Name: LinkedSF
- Registered students will be able to search jobs based on tech area, job position, and skills.
- Registered students will be able to apply for jobs.
- Registered students will be able to view company information.
- Registered students will be able to view their inbox and compose messages.
- Registered students will be able to log in and log out of the website.
- Registered employers will be able to create job posts.
- Registered employers will be able to view inbox and compose messages.
- Registered employers will be able to filter their own posts.
- Registered employers will be able to log in and log out of the website.
- Unique Feature: Creating alerts to notify job seekers/companies.
- URL: 3.83.100.31

## Screenshots Of DB Tables:

```
CREATE TABLE IF NOT EXISTS `LinkedSF`.`Company` (  
  `idCompany` INT NOT NULL AUTO_INCREMENT,  
  `Company_Name` VARCHAR(45) NOT NULL,  
  `Company_Username` VARCHAR(45) NOT NULL,  
  `Company_Email` VARCHAR(128) NOT NULL,  
  `Password` VARCHAR(128) NOT NULL,  
  PRIMARY KEY (`idCompany`),  
  UNIQUE INDEX `idCompany_UNIQUE` (`idCompany` ASC) VISIBLE,  
  UNIQUE INDEX `Company_Name_UNIQUE` (`Company_Name` ASC) VISIBLE,  
  UNIQUE INDEX `Company_Username_UNIQUE` (`Company_Username` ASC) VISIBLE,  
  UNIQUE INDEX `Company_Email_UNIQUE` (`Company_Email` ASC) VISIBLE)  
ENGINE = InnoDB;
```

```
CREATE TABLE IF NOT EXISTS `LinkedSF`.`JobPost` (  
  `idJobPost` INT NOT NULL AUTO_INCREMENT,  
  `Job_Title` VARCHAR(128) NOT NULL,  
  `Job_Description` VARCHAR(4096) NOT NULL,  
  `Job_Skills` VARCHAR(4096) NOT NULL,  
  `Job_Pay` VARCHAR(128) NOT NULL,  
  `Job_Street_Address` VARCHAR(128) NOT NULL,  
  `Job_City` VARCHAR(128) NOT NULL,  
  `Job_State` VARCHAR(128) NOT NULL,  
  `FK_Companyid` INT NOT NULL,  
  `Job_Field` VARCHAR(128) NOT NULL,  
  `Created` DATETIME NULL,  
  `Views` INT NULL,  
  PRIMARY KEY (`idJobPost`),  
  UNIQUE INDEX `idJobPost_UNIQUE` (`idJobPost` ASC) VISIBLE,  
  INDEX `JobPost to Company_idx` (`FK_Companyid` ASC) VISIBLE,  
  CONSTRAINT `JobPost to Company`  
    FOREIGN KEY (`FK_Companyid`)  
    REFERENCES `LinkedSF`.`Company` (`idCompany`)  
    ON DELETE CASCADE  
    ON UPDATE CASCADE)  
ENGINE = InnoDB;
```

```

CREATE TABLE IF NOT EXISTS `LinkedSF`.`JobSeeker` (
  `idJobSeeker` INT NOT NULL AUTO_INCREMENT,
  `JS_Username` VARCHAR(45) NOT NULL,
  `First_Name` VARCHAR(45) NOT NULL,
  `Last_Name` VARCHAR(45) NOT NULL,
  `Email` VARCHAR(128) NOT NULL,
  `Password` VARCHAR(128) NOT NULL,
  `Resume` LONGBLOB NOT NULL,
  PRIMARY KEY (`idJobSeeker`),
  UNIQUE INDEX `JS_Username_UNIQUE` (`JS_Username` ASC) VISIBLE,
  UNIQUE INDEX `idJobSeeker_UNIQUE` (`idJobSeeker` ASC) VISIBLE,
  UNIQUE INDEX `Email_UNIQUE` (`Email` ASC) VISIBLE)
ENGINE = InnoDB;

```

```

CREATE TABLE IF NOT EXISTS `LinkedSF`.`Applied` (
  `idApplied` INT NOT NULL AUTO_INCREMENT,
  `Fk_Postid` INT NOT NULL,
  `Fk_JobSeekerid` INT NOT NULL,
  UNIQUE INDEX `idApplied_UNIQUE` (`idApplied` ASC) VISIBLE,
  PRIMARY KEY (`idApplied`),
  INDEX `PostLink_idx` (`Fk_Postid` ASC) VISIBLE,
  INDEX `JobseekerLink_idx` (`Fk_JobSeekerid` ASC) VISIBLE,
  CONSTRAINT `PostLink`
    FOREIGN KEY (`Fk_Postid`)
      REFERENCES `LinkedSF`.`JobPost` (`idJobPost`)
      ON DELETE NO ACTION
      ON UPDATE NO ACTION,
  CONSTRAINT `JobseekerLink`
    FOREIGN KEY (`Fk_JobSeekerid`)
      REFERENCES `LinkedSF`.`JobSeeker` (`idJobSeeker`)
      ON DELETE NO ACTION
      ON UPDATE NO ACTION)
ENGINE = InnoDB;

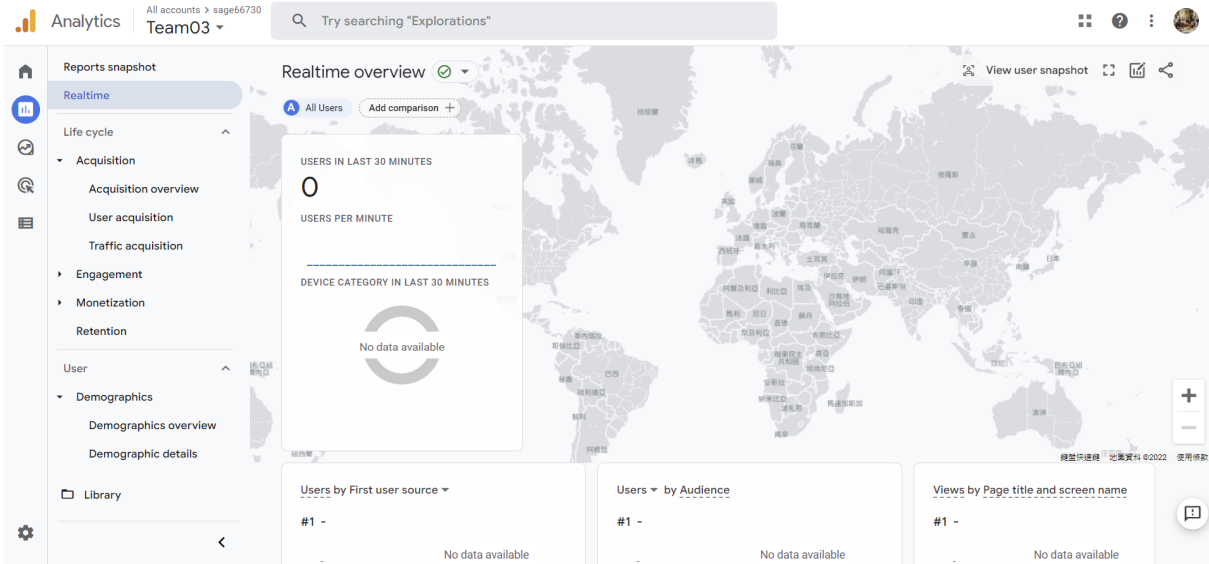
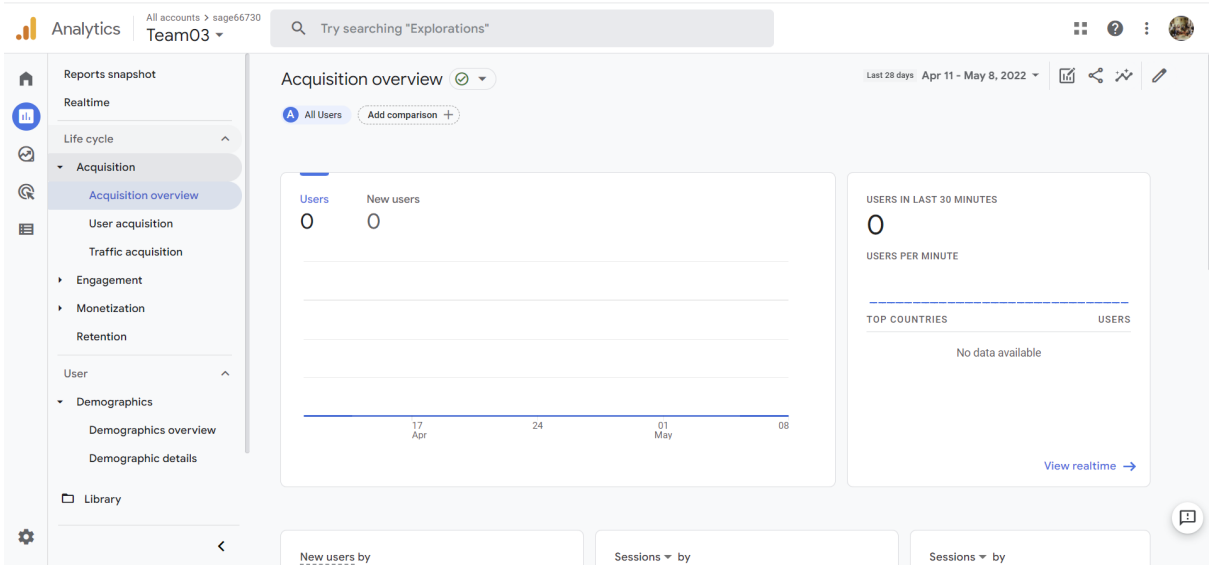
```

## Screenshots Of Task Management:

The following are discord channels for each milestone in which our group communicates things that need to be done along with zoom meetings



# Google analytics plot:



## Team member contributions:

### Team Member Contributions



Dominique Denzel Dutton

Fri 5/6/2022 11:57 AM

To: Christian Frederick McGlothen

Hi,

Contributions:

- used Figma to create a mockup design
- coded some Front-end CSS design ideas
- code review
- QA testing
- m1-m4

# of commits to dev branch: 1

V/r

Dominique Dutton



### Team Member Contributions



Kai-Chieh Lo

Sat 5/7/2022 1:58 PM

To: Christian Frederick McGlothen

a)  
Server setup and manage.  
Website deploy.  
Code develop.  
Milestone document.

b)  
15



## Team Member Contributions

CM

Christian Frederick Mcglothen

Sat 5/7/2022 8:18 PM

To: Christian Frederick Mcglothen

Contributions:

A)

Created Company Login Form

Created Student Login Form

Created Job Post Form

Created MySQL Database (Tables and Relationships)

Created Login (For Home Page)

Field Validations for (2 more characters etc)

B) 12

## Team Member Contributions

JY

Justin Bryan Yee

Sat 5/7/2022 8:37 PM

To: Christian Frederick Mcglothen

Hello,

Here are my responses for Q8.

a. Contributions

- Documentation (e.g. Personas, Use Cases/Storyboard...)
- Front-end portion of logout function

b. Number of submissions to dev branch: 2

Regards,  
Justin



## Team Member Contributions



Briget Dolores Soriano

Sat 5/7/2022 8:55 PM

To: Christian Frederick McGlothen



a. portions of milestone documents, front end, search

b. 13 commits



Richard Li

Tue 5/10/2022 1:11 PM

To: Christian Frederick McGlothen



a)

- Github Master
- Resolving merge conflicts

b) 2

## Post analysis:

- Programming proficiency
  - programming language:  
Our team decided to use Python with Flask to develop our website since neither of us is familiar with Javascript. The development would be easier with a better language.
  - Github version control:  
Sometimes codes cannot be smoothly merged while parallel programming. More communication or

specified working timeline for each member could fix this problem.

- Software engineering practice

- Class requirements:

We followed and completed the class requirements. In terms of the important concepts (like SE architecture ,QA and SE methodology). We are able to put them in practice in an amature way.

- Teamwork:

- Communication:

In the zoom meeting, our communication is efficient but only certain members provide the majority of the opinions. We should encourage other members to express their thoughts.

- Task distrubution:

The team roles we have is clear. However, in practice, the line between each role is vague.

- Product:

- Resource:

Our resource selection is limited to free tier usage. More interesting features can be developed with upgraded hardware and software.