Group Assignment: Iteration 3

Computer Architecture Student Association

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Team: MissRevsDevs

Team Roles:
Product owner: Elba Garza
Scrum master: Peter Wu

Customer Meeting:
Date: Thursdays since 10/28/2021
Time: 9:00-9:30 AM
Place: over Google Meet: https://meet.google.com/xte-xiji-qnp
<u>Notes</u>:
- Extra communication with the client also occurred on October 30th, where we discussed the new user stories and their higher priority relative to some of the ones we'd shared before.
- There was no meeting the week of November 15th due to a conference submission deadline for the clients.

Summary

The Computer Architecture Student Association, or CASA, is a student-led group within the research area of computer architecture. As part of their initiatives for creating a more inclusive community for students in the field, CASA currently holds multiple short-term mentoring programs at conferences, and is currently working on the creation of a long-term (i.e. 1 year) mentoring program. CASA recently published a workshop paper at ISCA 2021 which outlines their goals for all forms of mentoring in the area of computer architecture. Currently, short-term mentoring sign-ups occur at each conference registration, and registrants must *re-register* and *re-fill* their information at every iteration.

CASA hopes to have infrastructure (e.g. mentor/mentee accounts, matching algorithms, mentoring progress reportings) in place for short-term mentoring programming at both conference mentoring events, and for long-term mentorship. An infrastructure which saves participants' information via user accounts/profiles would more easily let students and mentors participate at various instances of mentoring events without having to re-fill information every time. Tracking previous matches between users may also ensure we do not repeatedly match the same mentee and mentor pair. Similar infrastructure for long-term mentoring would help CASA track the efficacy of mentoring relationships, and ensure they are beneficial to both parties, or may require re-matching.

The GitHub repository: https://github.com/johnson-hung/casa

The Pivotal Tracker account: https://www.pivotaltracker.com/n/projects/2536066

The Heroku deployment: https://stormy-refuge-76501.herokuapp.com/announcements

User Story Changes

There are no user story changes in Iteration 3, but we added new user stories as of Iteration 1. We added a research interests table, which contains research interests for participants. Additionally, the organizer can create or modify research interests. We will integrate this feature with my account feature into future iterations.

As we noted in the last iteration, we have changed the order of priority of our user stories extensively. For the sake of continuity, we have attached what we wrote in Iteration 1 below:

> *We have not created new user stories, but increased the priority of these new user stories over some of the ones developed beforehand. This happened after a discussion between the client and the Product Owner and the changes were agreed to and approved by the client on October 30th.*
>
> *The most important functionality of the CASA mentoring website is for participants to be able to have an account to sign up for mentoring events. That is, a participant (either a potential mentor or mentee, doesn't matter) should be able to create an account, or sign in to their account if they had already previously created one. Having functioning user accounts is very important because it helps participants sign up for mentoring events quickly without having to re-fill their information each and every time. Every mentoring event will be an instance for participants to sign-up for. Participants are **not** automatically signed up for each and every mentoring event. At event sign-up, participants will be able to verify or update their information before submitting.*
>
> *Our previous Iteration 0 user stories described the capability of embedding Twitter accounts, sharing the website itself via the Twitter API, or having an organizer post announcements. These are all secondary compared to having users create and/or log into their accounts.*
>
> *The last user story, of having an organizer post announcements is necessary, and implies need for two different account types: organizers and participants. There are a few organizers compared to possibly dozens or hundreds of participants. This differentiation will necessitate further user stories that focus on organizer functionalities.*
>
> *The rest of the user stories from Iteration 0 are still relevant, and may have evolved a bit, but not completely.*
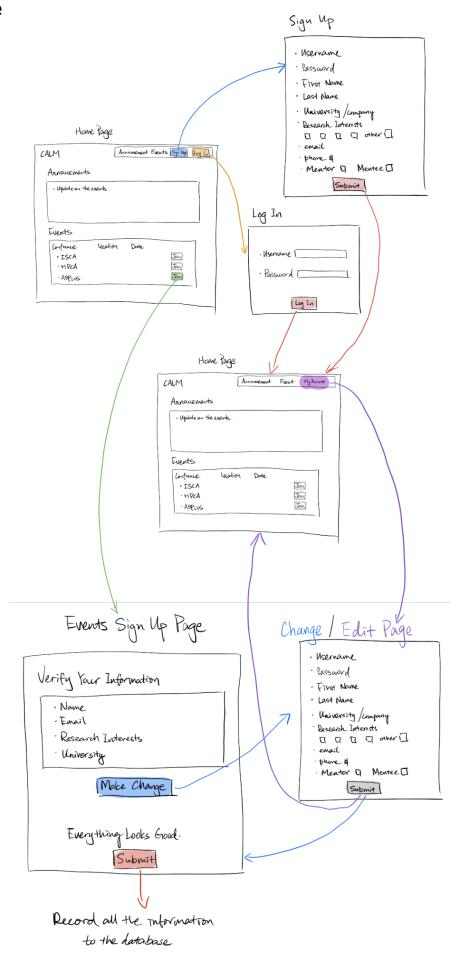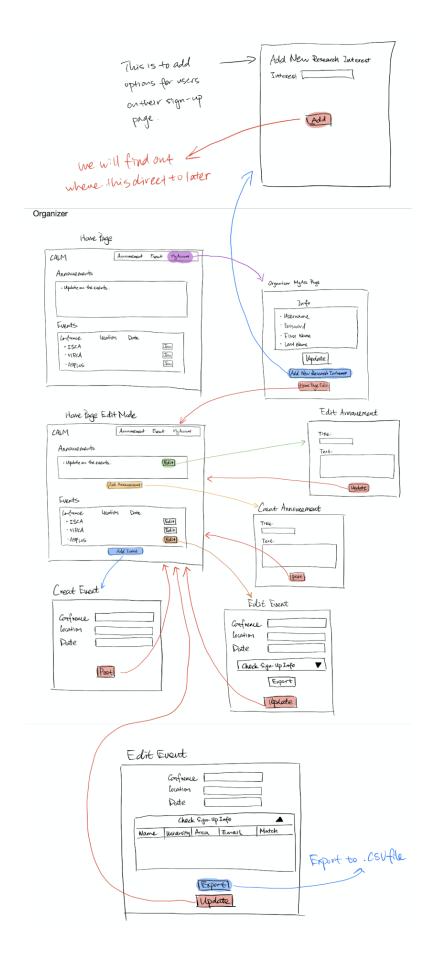
Iteration 3 Implemented User Stories

Feature: View announcements

#===

As a participant

So that I can know what the newest information is

I want to see announcements through the home page view

#===

Feature: Clickable Sign-up Button

#===

As a participant

So that I can create a user account

I want to fill out the personal information

#===

Feature: Clickable Log-in Button

#===

As a participant

So that I can log in my account

I want to fill out the username and password

#===

Feature: Clickable my account button

#===

As a user

So I can go to my account page

I want to go to my account page and edit my personal information

If I am a organizer

So I can see create announcements and events

#===

Feature: My account for participant

#===

As a participant

So I can see my personal information

#===

Feature: Sign out

#===

As a participant
When I select "Sign out"
I should not see "my account"
#===

Not-Yet-Implemented User Stories

Feature: View Events
#===
As a participant
So that I can see events that have not yet happened
I want to see the events through the home page view
#===

Feature: Event Sign-Up Page
#===
As a participant
So that I can sign up for the mentorship at the events
I want to verify user information and submit the request
#===

Feature: Export user event
#===
As a organizer
So I can receive user information for one specific event
I want to download a csv file that contains user information about participants who register this event
#===

Feature: My account for organizer
#===
As a organizer
So I can see my account
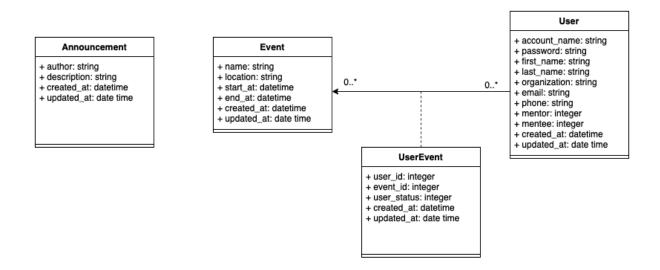And I can find a button to create announcements
And I can find a button to edit annoucemnts
And I can find a button to create events
And I can find a button to edit events
And I can export the user event
#===

Feature: Edit user information

#==

As a participant

If my sign-up information is outdated

I want to edit my user information

#==

Feature: Edit events for organizer

#==

As a organizer

If my event information is outdated

I want to edit event information

#==

Feature: Crete events for organizer

#==

As a organizer

So I can create a event

I want to fill out the information about event (e.g. name, time)

#==

Lo-Fi User Interface

Sign Up
- Username
- Password
- First Name
- Last Name
- University / Company
- Research Interests
  ☐ ☐ ☐ ☐ other ☐
- email
- phone #
- Mentor ☐ Mentee ☐
[Submit]

Home Page

CALM   Announcement Events Sign Up Log In

Announcements
- Update on the events.

Events

Conference	Location	Date	
ISCA			Join
HPCA			Join
ASPLOS			Join

Log In
- Username [   ]
- Password [   ]
[Log In]

Home Page

CALM   Announcement Event My Account

Announcements
- Update on the events.

Events

Conference	Location	Date	
ISCA			Join
HPCA			Join
ASPLOS			Join

Events Sign Up Page

Verify Your Information
- Name
- Email
- Research Interests
- University

[Make Change]

Everything Looks Good.

[Submit]

Change / Edit Page
- Username
- Password
- First Name
- Last Name
- University / Company
- Research Interests
  ☐ ☐ ☐ ☐ other ☐
- email
- phone #
- Mentor ☐ Mentee ☐
[Submit]

Record all the information
to the database

This is to add options for users on their sign-up page.

Add New Research Interest

Interest [ ]

Add

we will find out where this direct to later

Organizer

Home Page

CALM   Annoucement Event My Account

Annoucements

- Update on the events.

Events

Confrence	Location	Date	
• ISCA			Join
• HPcA			Join
• ASPLoS			Join

Organizer MyAcc Page

Info

- Username
- Password
- First Name
- Last Name

Update

Add New Research Intrenst

Home Page Edit

Home Page Edit Mode

CALM   Annoucement Event My Account

Annoucements

- Update on the events.   Edit

Add Annoucement

Events

Confrence	Location	Date	
• ISCA			Edit
• HPcA			Edit
• ASPLoS			Edit

Add Event

Edit Annoucement

Title:

Text:

Update

Creat Annoucement

Title:

Text:

post

Creat Event

Confrence [ ]
location [ ]
Date [ ]

Post

Edit Event

Confrence [ ]
location [ ]
Date [ ]

Check Sign-Up Info ▼

Export

Update

Edit Event

Confrence [ ]
Location [ ]
Date [ ]

Check Sign-Up Info ▲				
Name	University	Area	Email	Match

Export to .CSV file

Export

Update

Iteration 3 Design Diagram

Announcement
+ author: string
+ description: string
+ created_at: datetime
+ updated_at: date time

Event
+ name: string
+ location: string
+ start_at: datetime
+ end_at: datetime
+ created_at: datetime
+ updated_at: date time

User
+ account_name: string
+ password: string
+ first_name: string
+ last_name: string
+ organization: string
+ email: string
+ phone: string
+ mentor: integer
+ mentee: integer
+ created_at: datetime
+ updated_at: date time

UserEvent
+ user_id: integer
+ event_id: integer
+ user_status: integer
+ created_at: datetime
+ updated_at: date time

0..*   0..*

Code Testing & Evaluations

Below is our current BDD Cucumber output. While these scenarios are currently under two Feature files, we actually are testing for scenarios from all the Features we denote as implemented, but have yet to move them to individual `.feature` files–This is a `TODO` for the coming days. Still left to do is TDD, and we are currently working on that testing, which should raise our code coverage considerably.

```
Using the default profile...
Feature: display announcements on CALM homepage
  As a participant
  So that I can know what the newest information is
  I want to see announcements through the home page view

  Background: announcements have been added to database # features/explore_announcements_home_page.feature:7
    Given the following announcements exist:              # features/step_definitions/announcements_home_page_steps.rb:14
      | title           | author | rating | release_date |
      | Announcement_1 | Name_1 | G      | 25-Nov-1992 |
      | Announcement_2 | Name_2 | R      | 26-Oct-1984 |
      | Announcement_3 | Name_3 | R      | 21-Jul-1989 |
    And I am on the CALM home page                        # features/step_definitions/announcements_home_page_steps.rb:58
    Then 3 seed announcements should exist                # features/step_definitions/announcements_home_page_steps.rb:32

  Scenario: see an announcements        # features/explore_announcements_home_page.feature:18
    Given I am on the home page        # features/step_definitions/announcements_home_page_steps.rb:58
    Then I should see "Announcement_1" # features/step_definitions/announcements_home_page_steps.rb:42

  Scenario: login button exist  # features/explore_announcements_home_page.feature:22
    Given I am on the home page # features/step_definitions/announcements_home_page_steps.rb:58
    Then I should see "Login"   # features/step_definitions/announcements_home_page_steps.rb:42

  Scenario: login button is redirectable    # features/explore_announcements_home_page.feature:26
    When I click on the "Login" button      # features/step_definitions/announcements_home_page_steps.rb:66
    Then I should be on the user login page # features/step_definitions/announcements_home_page_steps.rb:75
    And I should see "Password"             # features/step_definitions/announcements_home_page_steps.rb:42
```

```
Scenario: Signup button exist      # features/explore_announcements_home_page.feature:32
    Given I am on the home page     # features/step_definitions/announcements_home_page_steps.rb:58
    Then I should see "Signup"      # features/step_definitions/announcements_home_page_steps.rb:42
    And I should not see "Log out"  # features/step_definitions/announcements_home_page_steps.rb:50

  Scenario: Signup button is redirectable    # features/explore_announcements_home_page.feature:37
    When I click on the "Signup" button      # features/step_definitions/announcements_home_page_steps.rb:66
    Then I should be on the user Signup page  # features/step_definitions/announcements_home_page_steps.rb:75
    And I should see "User Sign Up"           # features/step_definitions/announcements_home_page_steps.rb:42

Feature: Allow users to login
  As a participant
  So that I can log in my account
  I want to fill out the username and password

  Background: Users have been added to the database # features/login_page.feature:6
    Given the following users exist:                     # features/step_definitions/announcements_home_page_steps.rb:23
      | account_name | password | first_name | last_name | organization | email            | phone      | mentor | mentee |
      | mentor1      | password | mentor1    | mentor1   | Texas A&M    | mentor1@tamu.edu | 1234567890 | 1      | 0      |
      | mentor2      | password | mentor2    | mentor2   | Texas A&M    | mentor2@tamu.edu | 1234567890 | 1      | 0      |
      | mentee1      | password | mentee1    | mentee1   | Texas A&M    | mentee1@tamu.edu | 1234567890 | 0      | 1      |
    And I am on the CALM home page                       # features/step_definitions/announcements_home_page_steps.rb:58
    When I click on the "Login" button                   # features/step_definitions/announcements_home_page_steps.rb:66
    Then I should be on the user login page              # features/step_definitions/announcements_home_page_steps.rb:75
    And 3 seed users should exist                        # features/step_definitions/announcements_home_page_steps.rb:37

  Scenario: Being able to see the login fileds # features/login_page.feature:18
    Given I am on the user login page        # features/step_definitions/announcements_home_page_steps.rb:58
    Then I should see "Email"                # features/step_definitions/announcements_home_page_steps.rb:42
    And I should see "Password"              # features/step_definitions/announcements_home_page_steps.rb:42

  Scenario: None existing user trying to login             # features/login_page.feature:23
    Given I am on the user login page                       # features/step_definitions/announcements_home_page_steps.rb:58
    Then I fill in "Email" with "test@tamu.edu"             # features/step_definitions/announcements_home_page_steps.rb:84
    And I fill in "Password" with "dontwork"                # features/step_definitions/announcements_home_page_steps.rb:84
    When I press "Log in"                                   # features/step_definitions/announcements_home_page_steps.rb:62
    Then I should not see "Login successful"                # features/step_definitions/announcements_home_page_steps.rb:50
    And I should see "Invalid user/password combination"    # features/step_definitions/announcements_home_page_steps.rb:42

  Scenario: Existing user login successful            # features/login_page.feature:31
    Given I am on the user login page                  # features/step_definitions/announcements_home_page_steps.rb:58
    Then I fill in "Email" with "mentor1@tamu.edu"     # features/step_definitions/announcements_home_page_steps.rb:84
    And I fill in "Password" with "password"           # features/step_definitions/announcements_home_page_steps.rb:84
    When I press "Log in"                              # features/step_definitions/announcements_home_page_steps.rb:62
    Then I should see "Login successful"               # features/step_definitions/announcements_home_page_steps.rb:42

  Scenario: Existing user login failed due to wrong combination # features/login_page.feature:38
    When I fill in "Email" with "mentor1@tamu.edu"               # features/step_definitions/announcements_home_page_steps.rb:84
    And I fill in "Password" with "whati$pass"                   # features/step_definitions/announcements_home_page_steps.rb:84
    When I press "Log in"                                        # features/step_definitions/announcements_home_page_steps.rb:62
    Then I should see "Invalid user/password combination"       # features/step_definitions/announcements_home_page_steps.rb:42

  Scenario: Existing user login successful and redirect successful # features/login_page.feature:44
    Given I am on the user login page                               # features/step_definitions/announcements_home_page_steps.rb:58
    Then I fill in "Email" with "mentor1@tamu.edu"                  # features/step_definitions/announcements_home_page_steps.rb:84
    And I fill in "Password" with "password"                        # features/step_definitions/announcements_home_page_steps.rb:84
    When I press "Log in"                                           # features/step_definitions/announcements_home_page_steps.rb:62
    Then I should see "Login successful"                            # features/step_definitions/announcements_home_page_steps.rb:42
    And I should see "mentor1@tamu.edu"                             # features/step_definitions/announcements_home_page_steps.rb:42
    And I should see "Log out"                                      # features/step_definitions/announcements_home_page_steps.rb:42
    When I click on the "Log out" button                           # features/step_definitions/announcements_home_page_steps.rb:66
    Then I should see "Successfully logged out"                     # features/step_definitions/announcements_home_page_steps.rb:42
    And I should not see "Log out"                                  # features/step_definitions/announcements_home_page_steps.rb:50
    And I should see "Login"                                        # features/step_definitions/announcements_home_page_steps.rb:42

Feature: Record user information
```

```
As a participant
So I can create a user account
I want to fill out the personal information

Background: Users have been added to the database # features/signup_page.feature:6
  Given the following users exist:                    # features/step_definitions/announcements_home_page_steps.rb:23
    | account_name | password | first_name | last_name | organization | email           | phone      | mentor | mentee |
    | mentor1      | password | mentor1    | mentor1   | Texas A&M    | mentor1@tamu.edu | 1234567890 | 1      | 0      |
    | mentor2      | password | mentor2    | mentor2   | Texas A&M    | mentor2@tamu.edu | 1234567890 | 1      | 0      |
    | mentee1      | password | mentee1    | mentee1   | Texas A&M    | mentee1@tamu.edu | 1234567890 | 0      | 1      |
  And I am on the CALM home page                      # features/step_definitions/announcements_home_page_steps.rb:58
  When I click on the "Signup" button                 # features/step_definitions/announcements_home_page_steps.rb:66
  Then I should be on the user Signup page            # features/step_definitions/announcements_home_page_steps.rb:75
  And 3 seed users should exist                       # features/step_definitions/announcements_home_page_steps.rb:37

Scenario: see an sign up information # features/signup_page.feature:18
  Given I am on the user Signup page # features/step_definitions/announcements_home_page_steps.rb:58
  Then I should see "User Sign Up"   # features/step_definitions/announcements_home_page_steps.rb:42

Scenario: No information entered                             # features/signup_page.feature:22
  Given I am on the user Signup page                         # features/step_definitions/announcements_home_page_steps.rb:58
  When I press "Submit"                                      # features/step_definitions/announcements_home_page_steps.rb:62
  And I check "machine learning"                             # features/step_definitions/announcements_home_page_steps.rb:88
  Then I should not see "Successfully created account"       # features/step_definitions/announcements_home_page_steps.rb:50
  Then I should see "Password can't be blank"               # features/step_definitions/announcements_home_page_steps.rb:42
  Then I should see "Account name can't be blank"           # features/step_definitions/announcements_home_page_steps.rb:42
  Then I should see "First name can't be blank"             # features/step_definitions/announcements_home_page_steps.rb:42
  Then I should see "Last name can't be blank"              # features/step_definitions/announcements_home_page_steps.rb:42

Scenario: Signup error due to lack of information # features/signup_page.feature:32
  When I fill in "First Name" with "John"         # features/step_definitions/announcements_home_page_steps.rb:84
  And I fill in "Last Name" with "John"           # features/step_definitions/announcements_home_page_steps.rb:84
  When I check "mentor"                           # features/step_definitions/announcements_home_page_steps.rb:88
  And I press "Submit"                            # features/step_definitions/announcements_home_page_steps.rb:62
  Then I should see "Password can't be blank"     # features/step_definitions/announcements_home_page_steps.rb:42
  And I should see "Email can't be blank"         # features/step_definitions/announcements_home_page_steps.rb:42

Scenario: Signup error due to wrong password confirmation          # features/signup_page.feature:40
  When I fill in "First Name" with "john"                          # features/step_definitions/announcements_home_page_steps.rb:84
  And I fill in "Last Name" with "john"                            # features/step_definitions/announcements_home_page_steps.rb:84
  And I fill in "User Name" with "john"                            # features/step_definitions/announcements_home_page_steps.rb:84
  And I fill in "Password" with "1234"                             # features/step_definitions/announcements_home_page_steps.rb:84
  And I fill in "Password Confirmation" with "4321"                # features/step_definitions/announcements_home_page_steps.rb:84
  And I fill in "Email" with "john@tamu.edu"                       # features/step_definitions/announcements_home_page_steps.rb:84
  When I check "mentee"                                            # features/step_definitions/announcements_home_page_steps.rb:88
  And I press "Submit"                                             # features/step_definitions/announcements_home_page_steps.rb:62
  Then I should see "Password confirmation doesn't match Password" # features/step_definitions/announcements_home_page_steps.rb:42

Scenario: Signup error due to accout name already exist   # features/signup_page.feature:51
  When I fill in "First Name" with "mentee1"              # features/step_definitions/announcements_home_page_steps.rb:84
  And I fill in "Last Name" with "mentee1"                # features/step_definitions/announcements_home_page_steps.rb:84
  And I fill in "User Name" with "mentee1"                # features/step_definitions/announcements_home_page_steps.rb:84
  And I fill in "Password" with "1234"                    # features/step_definitions/announcements_home_page_steps.rb:84
  And I fill in "Password Confirmation" with "1234"       # features/step_definitions/announcements_home_page_steps.rb:84
  And I fill in "Email" with "mentee1@tamu.edu"           # features/step_definitions/announcements_home_page_steps.rb:84
  And I press "Submit"                                    # features/step_definitions/announcements_home_page_steps.rb:62
  Then I should see "Account name has already been taken" # features/step_definitions/announcements_home_page_steps.rb:42

Scenario: creat accnout successful                      # features/signup_page.feature:61
  When I fill in "First Name" with "john"               # features/step_definitions/announcements_home_page_steps.rb:84
  And I fill in "Last Name" with "john"                 # features/step_definitions/announcements_home_page_steps.rb:84
  And I fill in "User Name" with "john"                 # features/step_definitions/announcements_home_page_steps.rb:84
  And I fill in "Password" with "1234"                  # features/step_definitions/announcements_home_page_steps.rb:84
  And I fill in "Password Confirmation" with "1234"     # features/step_definitions/announcements_home_page_steps.rb:84
  And I fill in "Email" with "john@tamu.edu"            # features/step_definitions/announcements_home_page_steps.rb:84
  When I check "mentee"                                 # features/step_definitions/announcements_home_page_steps.rb:88
  And I press "Submit"                                  # features/step_definitions/announcements_home_page_steps.rb:62
```

```
    Then I should see "Successfully created account"  # features/step_definitions/announcements_home_page_steps.rb:42
    And I should not see "Log out"                    # features/step_definitions/announcements_home_page_steps.rb:50
    And I should see "Login"                          # features/step_definitions/announcements_home_page_steps.rb:42

16 scenarios (16 passed)
156 steps (156 passed)
0m1.605s
Coverage report generated for Cucumber Features to /home/ec2-user/environment/casa/coverage. 69 / 109 LOC (63.3%) covered.
```