# **HW 7**: Implementation 2 Assignment

# Group 7:

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I. What is the URL where your software can be tried out or downloaded? Describe any special instructions for using or installing the software (e.g.: Firefox browser only, Windows only, JRE must be installed, etc).

Our website is a node module that is hosted on the OSU servers using forever. In order to access our website the user must be connected to the OSU VPN.

**URL**: http://flip1.engr.oregonstate.edu:6889/

To test Organization features, use:

Account: organization@example.com

Password: password
To test Volunteer features, use:

Account: volunteer@example.com

Password: password

To test Administrative features, use:

**URL**: http://flip1.engr.oregonstate.edu:6889/admin-sign-in

Account: admin@example.com

Password: password

#### II. For each user story due today, answer the following:

A. Which pair(s) of teammates worked on that user story's tasks?

# <u>User story 1</u>:

- Add Filter by Date to Browse Events
  - Unassigned, will be implemented if time allows.

#### User story 2:

- Create Volunteer Profile page
  - John
- Add 'Not Attending' option to Volunteer Event Details page
  - Unassigned, will be implemented if time allows.

#### User story 6:

- Create My Events - Calendar View section on Volunteer Profile page

- Unassigned, will be implemented if time allows.

#### User story 7:

- Add Filter by Skill to Browse Events
  - Unassigned, will be implemented if time allows.
- Create Skill table in DB
  - Rich
- Create Event\_Skill table in DB
  - Rich

#### User story 9:

- Create Volunteer table in DB
  - Rich
- Create Volunteer-Event table in DB
  - Rich
- Create Volunteer Sign Up page
  - John, Caitlin

#### User story 10:

- Create Browse Events List View page
  - Colin
- Create Event Details page
  - Colin

#### User story 13:

- Create My Events section on Organization Profile page
  - Colin
- Create Event Details Org View page
  - Colin, Caitlin

#### User story 15:

- Add Cancel Event option to Event Details Org View page
  - Samuel

# User story 17:

- Add Deny Organization to Admin Organization Approval page
  - John

#### B. What do the relevant unit tests do?

#### User Stories 2 & 9

- I. Volunteer Sign Up Page
  - A. User can successfully navigate to Volunteer Sign Up page using direct URL
  - B. User can successfully submit a Volunteer account sign up request
    - 1. Volunteer is created in DB
    - 2. Submission navigates the user to Volunteer profile page
  - C. Submitting Organization without Name field results in error

- II. Volunteer Sign In Page
  - A. User can successfully navigate to Volunteer Sign In page using direct URL
  - B. User can successfully Sign In using valid Volunteer credentials
    - 1. Volunteer is redirected to profile page
  - C. User will be redirected to Volunteer Sign In page upon unsuccessful sign in

#### III. Volunteer Edit Profile

- A. User can successfully navigate to Volunteer Sign In page using direct URL
- B. User can successfully Sign In using valid Volunteer credentials
  - 1. Volunteer is redirected to profile page
- C. User will be redirected to Volunteer Sign In page upon unsuccessful sign in
- D. User can follow link to edit profile
- E. User can submit any changes to values saved to Volunteer record
  - 1. Volunteer is redirected to profile page

#### Story 10:

- I. Browse Events List View page (Volunteer)
  - A. User can successfully view available volunteer events available to them.
- II. Event Details--Volunteer page
  - A. User can successfully navigate to Event Details page by selecting a particular Event from the Browse Events page.

#### User stories 13 & 15:

- I. My Events section on Organization Profile page
  - A. User can successfully navigate to My Events page using link.
- II. Event Details--Organization view page
  - A. User can successfully select one of their Events to edit.
    - 1. Updating Event submits without error.
    - 2. Submission navigates the user to My Events page
  - B. User can select one Event to be deleted.
    - 1. Deleting Event removes it completely from the database.
    - 2. Submission navigates the user to the My Events page.

#### Story 17

- I. Admin Rejection Page
  - A. User can successfully navigate to Admin Approval/Rejection page using direct URL
  - B. User without a valid session will be redirected to the Admin Login Page
  - C. User can Revoke Access from Organization

# D. What problems, if any, did you encounter?

One problem we encountered was lack of time to debug. This was mostly due to the shortened week and the fact that our scheduling from last week was based on being able to implement the various pages/features without needing to do much debugging. As a result, our time schedule was overly optimistic, resulting in us not being able to implement every user story we sought to this week. The customer was notified and is okay with what we have been able to implement.

We also moved our project to Github this week, in an effort to more easily collaborate on shared files. This led to some added confusion however, since not all group members were very familiar with Github, and some people had a hard time sharing code changes. So we ended up continuing to use Google Docs, as well as Github, to share project files.

# E. How long did each task require?

# <u>User story 2</u>:

- Create Volunteer Profile page
  - Time required: 2 hours

### User story 7:

- Create Skill table in DB
  - Time required: 1 hour
- Create Event\_Skill table in DB
  - <u>Time required</u>: 1 hour

#### User story 9:

- Create Volunteer table in DB
  - Time required: 1 hour
- Create Volunteer-Event table in DB
  - Time required: 1 hour
- Create Volunteer Sign Up page
  - <u>Time required</u>: 2 hours

# User story 10:

- Create Browse Events List View page
  - <u>Time required</u>: 6 hours
- Create Event Details page
  - <u>Time required</u>: 4 hours

#### User story 13:

- Create My Events section on Organization Profile page
  - Time required: 10 hours
- Create Event Details Org View page
  - Time required: 10 hours

#### User story 15:

- Add Cancel Event option to Event Details - Org View page

- <u>Time required</u>: 2 hours

#### User story 17:

- Add Deny Organization to Admin Organization Approval page
  - Time required: 2 hours

#### F. What is the current status (implemented? tested?)

Stories 9, 10, 13, 15, 17 and portions of 2 and 7 were implemented and tested. However, stories 1, 6 and parts of 2 (add Not Attending option to Event Details page) and 7 (add Filter by Skill to Browse Events) have not been implemented or tested.

# G. What is left to be completed?

Due to time constraints and this being a short week, we were unable to complete stories 1 and 6, along with portions of 2 and 7. Thus, creating a "My Events - Calendar View" section on the Volunteer Profile page still needs to be completed. Additionally, filtering Events by date and skill requirements and adding a "not attending" option to the Volunteer Event Details page need to be completed. Finally, the Cancel Event function needs to be completed so that the Event is removed from the database and the page is redirected to the Organizations Postings page.

See schedule for next week for what is left for the project as a whole.

# III. For each spike and UML sequence diagram that you developed this week, answer the following:

#### A. Was the spike or diagram useful? Why or why not?

The UML diagrams were useful during the development process. We had to begin developing our product from scratch, since this was our first sprint, so the UML diagram representation of the user stories provided us with valuable references. They did not include implementation details, but they did provide an overall structure of how the pages that we were building would need to interact with each other. We were ultimately able to build concrete interfaces around the structure defined by the UML user story diagrams.

While the UML diagrams that we had previously developed provided us with good high level examples of the stories that we needed to build, we also had to reference documentation that we had previously produced that defined the structure of the data required by our application. This was essential, because we found that in order to determine how certain pages should work, we had to determine how to represent the data in MySQL tables.

#### B. Were there any diagrams that you wish that you had? Why or why not?

We did end up developing a number of pages that were not represented in the original UML diagrams. For example, there was no reference to a Browse Events page or filtering option anywhere in our UML diagrams, which we did end up developing.

While the UML diagrams that we used as references provided us with an example of how accounts were set up, how Organizations are created, and then approved by Admin accounts, it did not show much detail about what pages Volunteer accounts have once created.

#### IV. Briefly describe any refactoring that you did

Some slight refactoring was necessary in order to implement the event cancellation functionality because the previous iteration of the database did not allow for deletions from the events table due to foreign key constraints. The database must remove two relationships when an event is canceled - the relationship between the organization and the event and the relationship between volunteers and the event. If the organization chooses to cancel an event, the database will cascade upon the deletion of the event in order to remove not only the event, but also the relationships that rely on the existence of the event. Additionally, it was necessary to make some small additions to the organization's event postings page in order to give the ability to cancel an event at the click of a button.

Organizations have the ability to specify required skills for their events, and users are able to filter events based on required skill. In order to accommodate these functions, it was necessary to refactor the database and many of the handlebars pages. The database now has two additional tables. One that holds the skill types and one that relates events and skills so that there is a many to many relationship between the entities - events can require multiple skills and skills may be required by multiple events. The affected handlebars pages include the event creation page, event details page, and the browse events page. The event creation page will have checkboxes that the organization can use to indicate which skills will be required for the event and the event details page will reflect the skills selected by the organization for the event. Users will be able to search for events using a filter that can be applied to the different skills in order to narrow down the search results.

To meet the customer's desired design for the web pages we implemented the use of Bootstrap. Bootstrap adds specialized styling to the color schemes and layouts of the various pages. In comparison to traditional HTML models, Bootstrap provides a higher level of stylization that can be achieved with less overall work. Utilizing Bootstrap requires the implementation of code to link to the proper libraries, and preexisting pages may require a total overhaul in order to apply the Bootstrap style to the various elements of the document.

# V. <u>If you had to ask the customer any questions, indicate what those questions were and what the customer's response was. Briefly describe any surprises or requirement changes that you encountered.</u>

This week we did need our customer's input and we needed to update her on what our implementation plans were for this week. First, we notified Bridget (our customer) that we would

not be able to implement the messaging feature between Volunteers and Organizations due to time constraints this week. We also requested her input on what we had already completed, to ensure it was in line with her vision.

# Specifically, we asked her:

- (1) What you think of the colors/design of the pages. Also, if there are any changes (to color/design) you would like us to make;
- (2) If the home page is in line with your vision;
- (3) Are the other pages are in line with your vision; and
- (4) Are there any other comments/changes you wanted to see made?

### Bridget's responded, saying:

- 1. I like the bright colors. I might just choose one set of colors though to streamline it. Maybe a lighter shade of purple?
- 2. I was hoping the home page would bring you right to an explanation of the site and the listing sort with the sign-in in the top corner of every page. That way you understand right away what the website is for. I understand there are only a few days left, so don't worry about implementation. I just wanted to give some feedback.
- 3. I think all the login pages look great, and it's nice getting to see the admin functionality as well!
- 4. I think just getting the database up and setting up an interface is a lot for this quick turn around, so it looks great. I would say if you wanted to simply this week and only doing one more piece, it'd be great to see the event page interface, with the ability to sign up or not attend. Also, it might also be an easy add to make the banner on top click back to the homepage just for ease of using the prototype.

# VI. <u>Briefly describe all integration tests that you did on the system, the test results, and</u> any changes that you made (or will make) to the system as a result.

#### Story 2

- Create Volunteer Profile page
  - When a volunteer logs into the system they are directed to their profile page, which will eventually give them the opportunity to view their volunteering events as well as edit their profile information.
    - Result: Profile page is created and user can edit account.

#### Story 9

• Create Volunteer table in DB

■ Result: Success

• Create Volunteer-Event table in DB

■ Result: Success

- Create Volunteer Sign Up page
  - From the Volunteer Now homepage there is a button that users can click to

register as a volunteer. The button will redirect the user to a page where they can enter their name, email, and phone number, which will create an account for them to track the volunteer events that they have signed up for.

- Received this error when creating volunteer account:
  - {"code":"ER\_BAD\_FIELD\_ERROR","errno":1054,"sqlMessage":"Unknown column 'password' in 'field list'", "sqlState":"42S22", "index":0, "sql":"SELECT first\_name, last\_name, contact\_phone, contact\_email, password FROM Volunteer\_Account WHERE volunteer id = 1"}
    - To resolve, we updated the js code to reference the name of the password field in the handlebars folder.
  - Result: Success

# Story 10

- Create Browse Events List View page
  - From the Volunteer Now homepage there is an option to browse events, which navigates to a populated page of organization-entered events. Each event shows the date, title, organization, description, and volunteer sign-up count, with buttons to allow users to view in-depth event details and sign up for the event.
    - Result: Success
- Create Event Details page
  - The browse events page is populated with events, which all have a basic description of the event along with a few key pieces of information. Users wanting to view more information about the event can click the details button to get a better overview of the event before choosing to sign up. The details page contains information about the minimum age, event location, and contact information for the organization. Add skills to event details page.
    - Result: Success

#### Story 13

- Create My Events section on Organization Profile page
  - On the organization profile page there is a button for postings, which will direct the organization to a list view of their current event listings
    - Result: Success
- Create Event Details Org View page
  - The event postings page contains a list view of current event listings, and each
    listing can be clicked to view/edit the event details. The current event details are
    populated in the fields, which allows organizations to edit specific fields without
    having to reenter unchanged information.
    - Result: Success.

#### Story 15

- Add Cancel Event option to Event Details Org View page
  - The event postings page contains a list view of current event listings, and each listing contains a button which gives the organization the ability to cancel an event. When an organization cancels an event, the event will be removed from the postings page, and the relationship between volunteers and the event will be removed from the database.
    - Result: Cancel Event button is displayed on page, but error results.

#### Story 17

- Add Deny Organization to Admin Organization Approval page
  - The Admin Approval/Reject page contains two lists of Organizations. The first list displays all Organizations that have not yet been approved, and gives Admins the ability to approve them, with an "Approve" button. The second list displays Organizations that have already been approved, with an option to revoke their approval, through a "Revoke" button. Clicking the "Revoke" button sets the "approved" column on the corresponding Organization to false, rendering the Organization non-approved.

■ Result: Success

# VII. What is your new schedule for what to complete next week? What user stories will be done, what is your time estimate for each of these user stories?

For next week the stories listed below will need to be completed.

<b>User Story</b>	Related Tasks	Time to complete task
3	<ul> <li>Connect to Google</li> <li>Maps API</li> <li>Create Browse Events</li> <li>Map View page</li> <li>Create Volunteer-</li> <li>Event table in DB</li> </ul>	16 hours
4	Create Messages table in DB Create Contact Organization section on Event Details page Create Message- Recipient table in DB Create Messages section on Organization Profile page Create View Message page	16 hours
5	Create My Events - Map View section on Volunteer Profile page	3 hours
8	Connect to Background Check	12 hours

	APIs Add Background Check section to Volunteer Profile page	
14	Create Contact Volunteers section on Event Details - Org View page Create Messages section on Volunteer Profile page	4 hours
18	<ul><li>Create Admin Events page</li><li>Create Admin Event details page</li></ul>	6 hours

Our schedule for next week, is listed below.

- Due Sunday, June 10
  - Create My Events Calendar View section on Volunteer Profile page
  - Filter Events by date and skills (Volunteers)
  - Add "not attending" option to Volunteer Event details page.
  - Cancel Event function working correctly
- Due Monday, June 11
  - Create Messages table in DB
  - Create Message-Recipient table in DB
  - Create Volunteer-Event table in DB
  - Connect to Google Maps API
- <u>Due Tuesday, June 12</u>
  - Create Browse Events Map View page
  - Create My Events Map View section on Volunteer Profile page
  - Create Messages section on Organization Profile page
- <u>Due Wednesday, June 13</u>
  - Create View Message page
  - Create Messages section on Volunteer Profile page
  - Create Contact Organization section on Event Details page
- <u>Due Thursday, June 13</u>
  - Create Admin Events page
  - Create Admin Event details page
- Due Saturday, June 15
  - Connect to Background Check APIs
  - Add Background Check section to Volunteer Profile page

# VIII. <u>In one sentence, briefly summarize whether your customer was willing and able to</u> talk with you by email in a timely fashion.

Our customer was willing to respond by email and did so very promptly.

# IX. Briefly summarize the contribution of each of your team members.

Each team member contributed to various parts of this document and our application. In addition to implementing the tasks described in Section II, A, Richard worked on Sections II, IV and VIII; John worked on Sections III and V; Caitlin worked on Sections II, III, V, VI, VII, and VIII; Samuel worked on sections IV and VI; and Colin worked on Sections I, II, and VII.