SwIRL Skhedule Sprint 4 Retrospective

**Links:**
Deployed app link: https://swirlskehdule-f316b598c688.herokuapp.com
GitHub link: https://github.com/gdbrowne85/SwIRL-CSCE-606
Project management tool: https://www.pivotaltracker.com/n/projects/2690139

**Date of Sprint:**
Sprint 4 was from April 8 to April 19, 2024

**General Team Information and Overview of Roles**

Team Member Contributions			
Name	Role	Percentage Contribution	
Eric McGonagle	Product Owner	14.29%	
Glen Browne	Scrum Lead	14.29%	
Debal Goswami	Developer	14.29%	
Pankaj Tiwari	Developer	14.29%	
Carlos Meisel	Test Master	14.29%	
Prakhar Singh	Developer	14.29%	
Erhan Wang	Developer	14.29%	

**Sprint Goal:**
  This sprint's main goal was to resolve any bugs from the previous sprint as well as finalize some final features that need to be added to make the product more complete. On top of this, any design changes to features that were previously added/are going to be added need to take effect so the look and feel of the product will be more appealing to users. This fourth sprint included various feature changes that add more functionality to the product to increase the effectiveness as well as increasing the ability for the product to carry out more automated tasks.

Sprint Achievements:

Our team finished and implemented the following features:

Google Calendar functionality fully implemented with all bugs resolved

RSVP functions working as well as the according response/status shown on the event status

Series event creation works properly

Reminder time/countdown timer update

Reminder email implementation

Invitation status indicators correctly indicate status

Email address text box works - user can enter email addresses in the text box, upload a csv or xlxs file, both

The app adjusts dynamically to fit the device it's displayed on

Invitations are limited to the max capacity

Sprint Backlog Items and Status:

KEY

+: backlog item was added after sprint started

*: backlog item was modified

-: story was not completed + why?

Completed Stories: (25 points)

Send Event Acceptance/Rejection Confirmation

View Invitation Status Indicators in App

View a different email from the original invitation when a reminder is sent.

Add text box for Email

Add event to the calendar (Series Event)

View the web app in a format that matches my device

Limit initial invitations to max capacity

+Click "Logout" next to displayed user email to logout

Incomplete Stories: (11 points)

-Send email to next invitee(s) once a slot becomes available

This doesn't work, but a reminder email is sent to the recipient that hasn't replied, possibly once a slot opens up, possibly regardless. More investigation into this matter is necessary.

-Time slot conflicts for series event are handled gracefully

Didn't have time to finish this one, as it was marked least priority. A time slot appropriately cannot be accepted if it is already filled, but the user isn't given feedback about this if they choose a filled slot.

-Viewing Countdown Timer for the Series Event

We decided to nuke this feature and implement the reminder email/invitation expiration a different way by just saving the reminder time and expiration time in fields in the attendee_info table

-Prevent invitee from accepting invitation after he has already rejected it
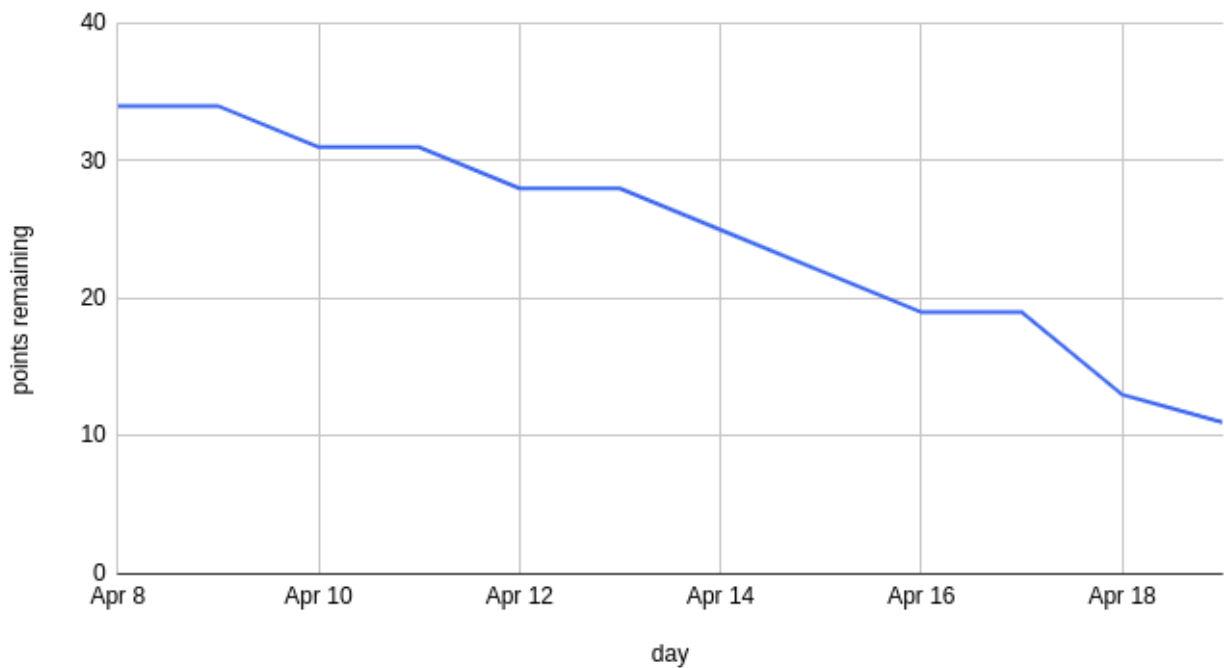
This doesn't work - It is still possible to accept an invitation after you have rejected it. If we had more time we would implement this feature.

-Prevent invitee from accepting invitation once timer has expired

We didn't get around to this feature and we never implemented the invitation expiration, so this doesn't work. If we had more time we would implement this feature, but not as a timer, just as a check to a field 'expiration' in the attendee_info entry for the corresponding attendee, to see if the invitation has expired.

Burndown Chart:
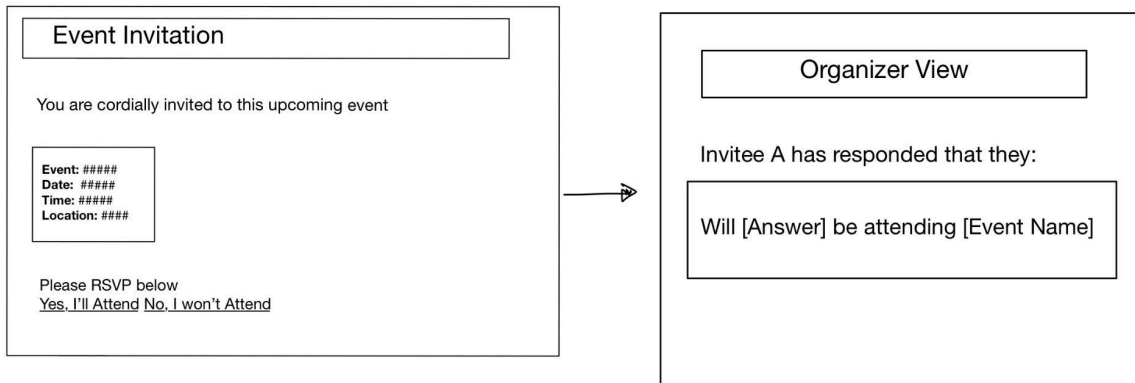
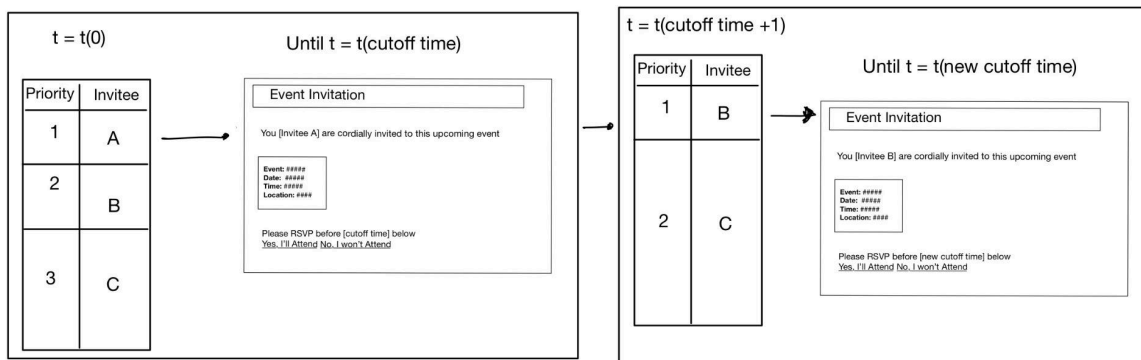Sprint 3 - Points Remaining vs. Day

Design Diagrams:
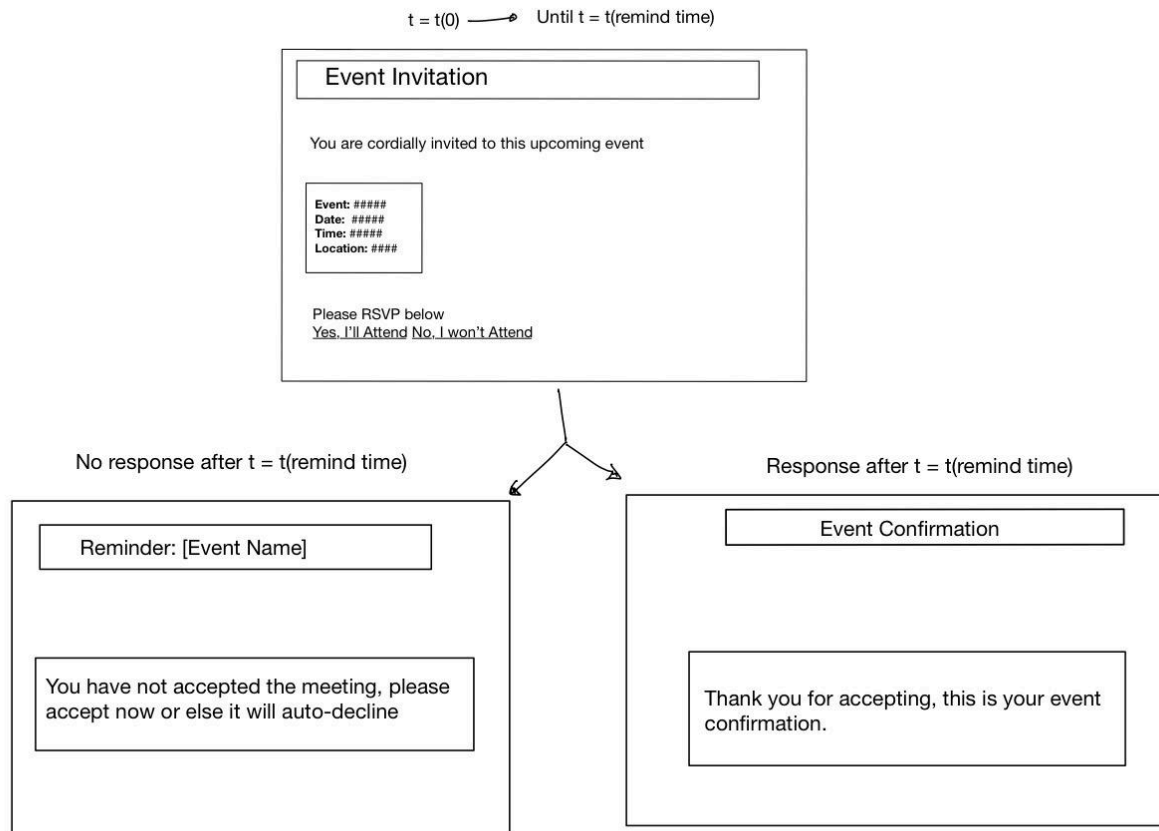Below are lo-fi mockups of our user stories that we created for this sprint:
Mockups:

Story1:

Story 2:

Story 3:

t = t(0) ———➤ Until t = t(remind time)

Event Invitation

You are cordially invited to this upcoming event

Event: #####
Date: #####
Time: #####
Location: ####

Please RSVP below
Yes, I'll Attend No, I won't Attend

No response after t = t(remind time)

Reminder: [Event Name]

You have not accepted the meeting, please accept now or else it will auto-decline

Response after t = t(remind time)

Event Confirmation

Thank you for accepting, this is your event confirmation.

Story 4:

Event Invitation

You are cordially invited to this upcoming event

Event: #####
Date: #####
Time: #####
Location: ####

Please RSVP below
Yes, I'll Attend No, I won't Attend

Event Confirmation

Thank you for responding, You answered that:

You will [answer] attending the event
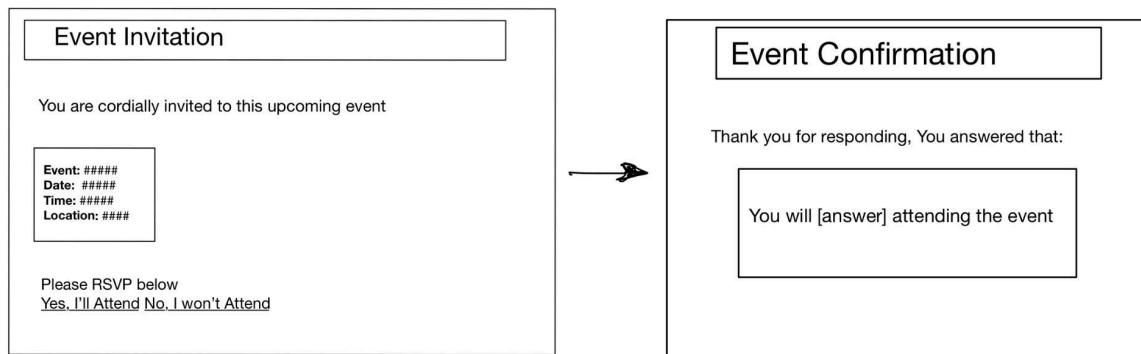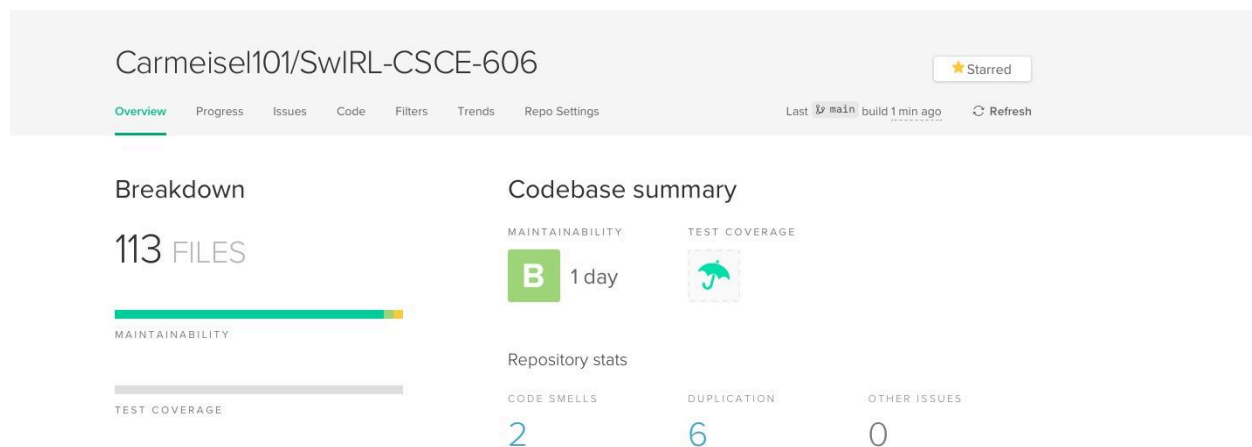
Documentation of Changes:

There were a few documentation changes considering a few bugs that we ran into considering there were a few bugs that the team ran into. The countdown timer, for one, was a feature that was added in a previous sprint to single dinner event parties, and eventually to series events in this sprint, but was changed due to the idea that a date-time pair will be set to send a reminder email and thus can always be compared to the current time rather than relying on the countdown timer running out. In addition to this, the logic for which the reminder emails was being sent out had to be changed in the midst of development due to a logic error in placing the conditionals in a JavaScript file which will only run when the app is up; thus an heroku scheduler add-on was configured such that every 10 minutes, the events can be checked to see if a reminder email needs to be sent out simply based on the current time with respect to the date-time pair initially set for the reminder email.

Evaluation of Code and Test Quality:

Code Climate: https://codeclimate.com/github/Carmeisel101/SwIRL-CSCE-606

Coverage is in the BDD & TDD section, paired with Rspec.

Customer Meeting:

Prior to the Sprint 4 MVP demo, the team met with Marcus, Jon's colleague, about halfway through the sprint to provide an update on the status for the development of some final features as well as any UI design changes prior to the conclusion of sprint 4. There was some great advice that Marcus had to mention, like the reminder email logic and the separation of

events on the dashboard from those one is invited to and those that one is hosting for visualization purposes. In addition to this, he ensured that the team kept the idea of "automation" in mind such that users should have minimal work to do regarding creating events and sending emails; this led the team remove the "Send email" feature that was previously there to simply auto send an initial invitation email when an event is created that would otherwise have to be manually sent.

At the conclusion of this sprint, the team met with Jon to display the final features added to the app as well as noting down any suggestions that we could explain in easier terms for other users and/or the next development team, should there be one. Jon was pleased to see that the team kept a large chunk of the suggestions from Marcus in mind and that though time may have been tight at some points, almost all of the logical features had at the very least been touched on.

BDD & TDD:

Rspec Coverage:

All Files (97.15% covered at 3.33 hits/line)

23 files in total.
421 relevant lines, 409 lines covered and 12 lines missed. (97.15%)

Search:

File	% covered ▲	Lines	Relevant Lines	Lines covered	Lines missed	Avg. Hits / Line
app/controllers/login_controller.rb	91.30 %	44	23	21	2	1.70
app/controllers/events_controller.rb	95.31 %	371	192	183	9	3.76
app/mailers/event_remainder_mailer.rb	97.87 %	77	47	46	1	4.11
app/controllers/application_controller.rb	100.00 %	4	1	1	0	1.00
app/controllers/calendars_controller.rb	100.00 %	112	55	55	0	2.38
app/controllers/signin_controller.rb	100.00 %	23	11	11	0	2.73
app/controllers/static_pages_controller.rb	100.00 %	7	3	3	0	1.00
app/controllers/users_controller.rb	100.00 %	32	16	16	0	2.00
app/helpers/application_helper.rb	100.00 %	4	1	1	0	1.00
app/helpers/calendar_helper.rb	100.00 %	24	3	3	0	6.33
app/helpers/calendars_helper.rb	100.00 %	4	1	1	0	1.00
app/helpers/event_remainder_mailer_test_helper.rb	100.00 %	4	1	1	0	1.00
app/helpers/events_helper.rb	100.00 %	31	13	13	0	1.77
app/helpers/pages_helper.rb	100.00 %	4	1	1	0	1.00
app/helpers/static_pages_helper.rb	100.00 %	4	1	1	0	1.00
app/mailers/application_mailer.rb	100.00 %	6	3	3	0	1.00
app/mailers/rsvp_confirmation_mailer.rb	100.00 %	39	22	22	0	1.36
app/models/application_record.rb	100.00 %	5	2	2	0	1.00
app/models/attendee_info.rb	100.00 %	20	8	8	0	19.00
app/models/event.rb	100.00 %	9	6	6	0	1.00
app/models/event_info.rb	100.00 %	7	4	4	0	1.00

RuboCop:

RSpec.describe EventRemainderMailer, type: :mailer do ...

spec/mailers/event_remainder_spec.rb:49:3: C: Metrics/BlockLength: Block has too many lines. [28/25]
  describe 'send email from params' do ...
  ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
spec/mailers/event_remainder_spec.rb:50:5: C: Metrics/BlockLength: Block has too many lines. [26/25]
    it 'send a email' do ...
    ^^^^^^^^^^^^^^^^^^^^
spec/mailers/rsvp_confirmation_mailer_spec.rb:7:1: C: Metrics/BlockLength: Block has too many lines. [28/25]
RSpec.describe RsvpConfirmationMailer, type: :mailer do ...
^^^
spec/models/attendee_info_spec.rb:5:1: C: Metrics/BlockLength: Block has too many lines. [29/25]
RSpec.describe AttendeeInfo, type: :model do ...
^^
spec/models/event_info_spec.rb:5:1: C: Metrics/BlockLength: Block has too many lines. [29/25]
RSpec.describe EventInfo, type: :model do ...
^^
spec/models/event_spec.rb:5:1: C: Metrics/BlockLength: Block has too many lines. [34/25]
RSpec.describe Event, type: :model do ...
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
spec/models/mail_info_spec.rb:7:1: C: Metrics/BlockLength: Block has too many lines. [30/25]
RSpec.describe EventsController, type: :controller do ...
^^^
spec/models/mail_info_spec.rb:8:3: C: Metrics/BlockLength: Block has too many lines. [28/25]
  describe 'GET #invite_attendees' do ...
  ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
spec/models/time_slot_spec.rb:5:1: C: Metrics/BlockLength: Block has too many lines. [27/25]
RSpec.describe TimeSlot, type: :model do ...
^^

119 files inspected, 131 offenses detected

Tip: Based on detected gems, the following RuboCop extension libraries might be helpful:
  * rubocop-rake (https://rubygems.org/gems/rubocop-rake)

The following RuboCop extension libraries are installed but not loaded in config:
  * rubocop-capybara
  * rubocop-factory_bot
  * rubocop-rails
  * rubocop-rspec

You can opt out of this message by adding the following to your config (see https://docs.rubocop.org/rubocop/extensions.html#extension-suggestions for more options):
  AllCops:
    SuggestExtensions: false

Cucumber Results:

Link to cucumber report:

https://reports.cucumber.io/reports/e3911426-594f-41ac-9e38-7c820b1410d6

Screenshot of cucumber report: