

## Iteration 3

# PLANNXT

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## Team Roles

1. Amory Doerr 228007537 (Product Owner)
2. Ashish Kumar 633002195 (Scrum Master)
3. Tian Liu 525004380
4. Stefan Wu 733000625
5. Huixin Zhang 331007647

## Work Distribution in Iteration 3

### Bugs fixing

- Moving plans (Amory Doerr)
  - Ensure only users with proper permissions may manipulate plans within the database
  - Fix an issue when uploading plans matching an existing primary key
- Table of Items (Stefan Wu)
  - Could not edit the entries of an item if it was not selected -> can be edited at any time.



## Finished User Stories

- Item Grouping (Stefan Wu)
- Add more symbols to the canvas page, change from line-by-line drawing to pictures (Tian Liu)
- Add Mark column to the table such that click table rows will highlight multiple items on canvas page (Tian Liu)
- Add redo and undo button and functionality for the canvas page (Tian Liu)
- Click the item will show details of the item (Tian Liu)
- Add delete option in time planning(Ashish Kumar)
- TDD test for existing registration/session controller(Ashish Kumar)

## User Stories in Progress

- Explore 3D Preview features: Huixin Zhang
- Dependency check (Stefan Wu, Tian Liu)

## Iteration 3 Report

- Stefan Wu, Ashish Kumar, Huixin Zhang, Tian Liu, Amory Doerr

## Customer Demo Meeting

- We meet with the client every Wednesday 1:30 pm - 2:30 pm
- The demo meeting for iteration 2 was on Mar 29th, 2023, 1:30-2:30 pm
- Customer feedback
  - Add timeline goals and feature owners for the project in the spreadsheet
  - Add more diverse symbols and icons to the canvas page to make the rendering as close to a real App
  - Enhance communication among team members for 3D preview feature development

- Collaboration with CrmNXT
  - Provide API for CrmNXT to get users' name, email, and type
- Collaboration with EventNXT
  - Matching Authentication System

## User Stories Finished in this Iteration

- Allow importing/exporting plans
  - Add an option to download an existing plan as a file
- Allow deleting not required events to make plan form complete dynamic form:(Ashish)

**Plan Name** demo

**Event Days: Setup through Breakdown**

Start Adding steps by clicking Add Steps

Step-Number	Start Day	Start Time	End Time	Break1Start	Break1End	Break2Start	Break2End	
<input type="text"/>	dd-mm-yyyy	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/> Delete
<input type="text"/>	dd-mm-yyyy	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/> Delete

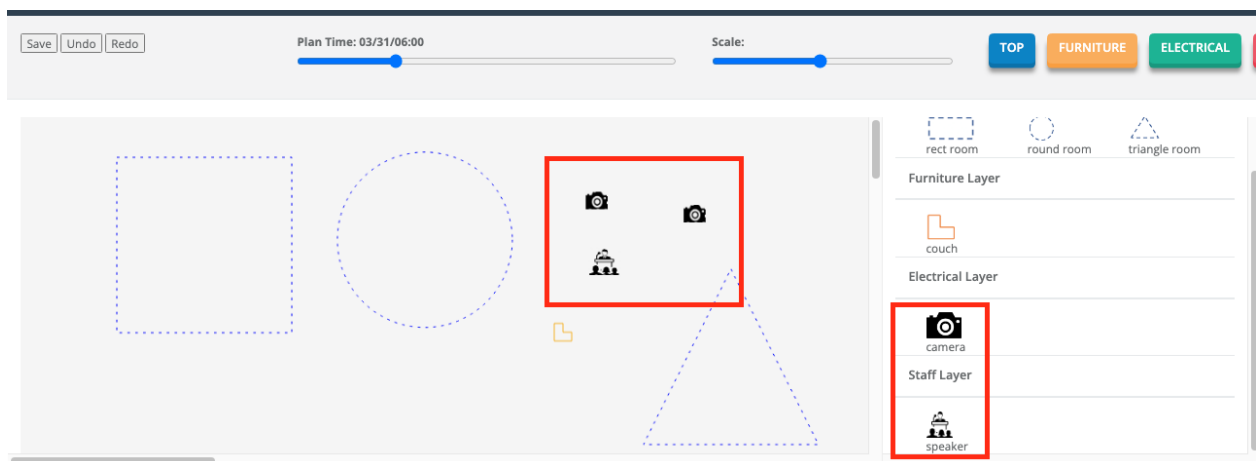
Add Steps

User can tick the delete box, to remove the step from the html page

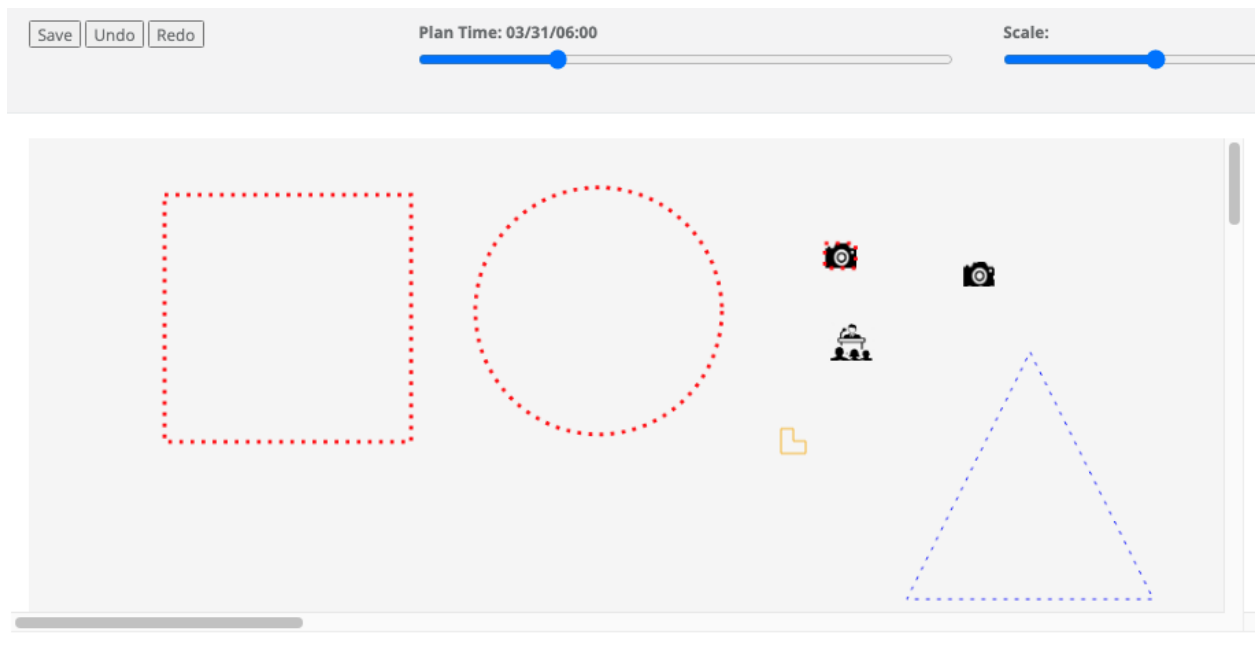
- Add Group attribute to each item (Stefan)
  - Involving creating a few classes with JS and rewriting file saving and loading.

Mark	ID	Name	Group	Setup_start	Setup_end	Breakdown_start	Breakdown_end	Owner	Finished
<input type="checkbox"/>	0	rect_room	default	03/31/06:00	03/31/07:00	03/31/06:00	03/31/07:00	n/a	<input type="checkbox"/>
<input type="checkbox"/>	1	round_room	default	03/31/06:00	03/31/07:00	03/31/06:00	03/31/07:00	n/a	<input type="checkbox"/>
<input type="checkbox"/>	2	camera	default	03/31/06:00	03/31/07:00	03/31/06:00	03/31/07:00	n/a	<input type="checkbox"/>
<input type="checkbox"/>	3	speaker	default	03/31/06:00	03/31/07:00	03/31/06:00	03/31/07:00	n/a	<input type="checkbox"/>
<input type="checkbox"/>	4	camera	default	03/31/06:00	03/31/07:00	03/31/06:00	03/31/07:00	n/a	<input type="checkbox"/>
<input type="checkbox"/>	5	couch	default	03/31/06:00	03/31/07:00	03/31/06:00	03/31/07:00	n/a	<input type="checkbox"/>
<input type="checkbox"/>	6	triangle_room	default	03/31/06:00	03/31/07:00	03/31/06:00	03/31/07:00	n/a	<input type="checkbox"/>

- Add more symbols to the canvas page, change from line-by-line drawing to pictures (Tian Liu)

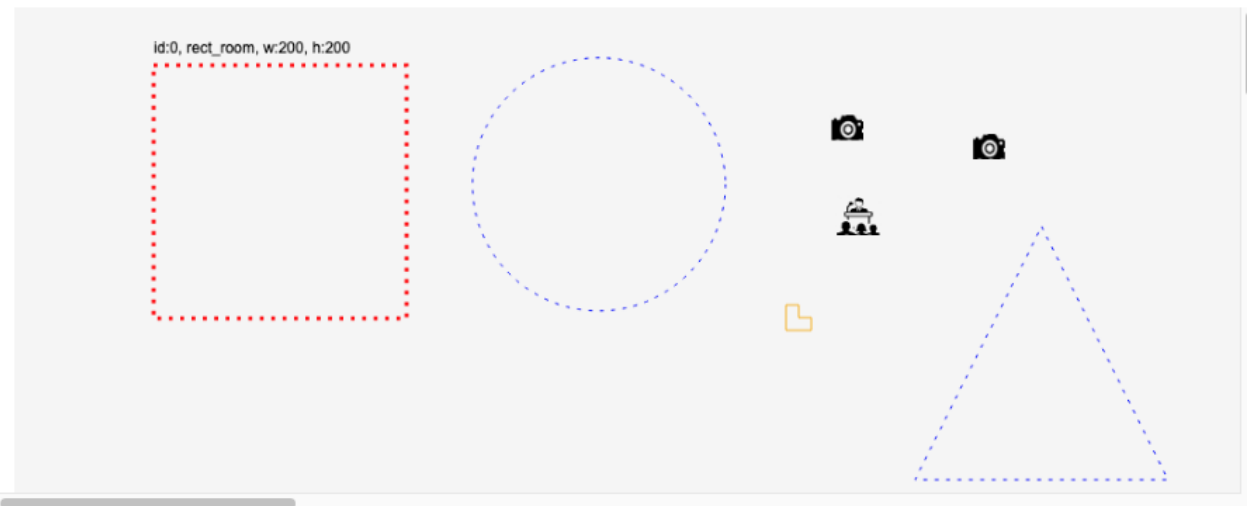


- Add Mark column to the table such that click table rows will highlight multiple items on canvas page (Tian Liu)



Mark	ID	Name	Group	Setup_start	Setup_end	Breakdown_start	Breakdown_end	Owner	Finished
<input checked="" type="checkbox"/>	0	rect_room	default	03/31/06:00	03/31/07:00	03/31/06:00	03/31/07:00	n/a	<input type="checkbox"/>
<input checked="" type="checkbox"/>	1	round_room	default	03/31/06:00	03/31/07:00	03/31/06:00	03/31/07:00	n/a	<input type="checkbox"/>
<input checked="" type="checkbox"/>	2	camera	default	03/31/06:00	03/31/07:00	03/31/06:00	03/31/07:00	n/a	<input type="checkbox"/>
<input type="checkbox"/>	3	speaker	default	03/31/06:00	03/31/07:00	03/31/06:00	03/31/07:00	n/a	<input type="checkbox"/>
<input type="checkbox"/>	4	camera	default	03/31/06:00	03/31/07:00	03/31/06:00	03/31/07:00	n/a	<input type="checkbox"/>
<input type="checkbox"/>	5	couch	default	03/31/06:00	03/31/07:00	03/31/06:00	03/31/07:00	n/a	<input type="checkbox"/>
<input type="checkbox"/>	6	triangle_room	default	03/31/06:00	03/31/07:00	03/31/06:00	03/31/07:00	n/a	<input type="checkbox"/>

- Click the item will show details of the item (Tian Liu)



Mark	ID	Name	Group	Setup_start	Setup_end	Breakdown_start	Breakdown_end	Owner	Finished
<input type="checkbox"/>	0	rect_room	default	03/31/06:00	03/31/07:00	03/31/06:00	03/31/07:00	n/a	<input type="checkbox"/>
<input type="checkbox"/>	1	round_room	default	03/31/06:00	03/31/07:00	03/31/06:00	03/31/07:00	n/a	<input type="checkbox"/>

- Add redo and undo button and functionality for the canvas page (Tian Liu)

SaveUndoRedo

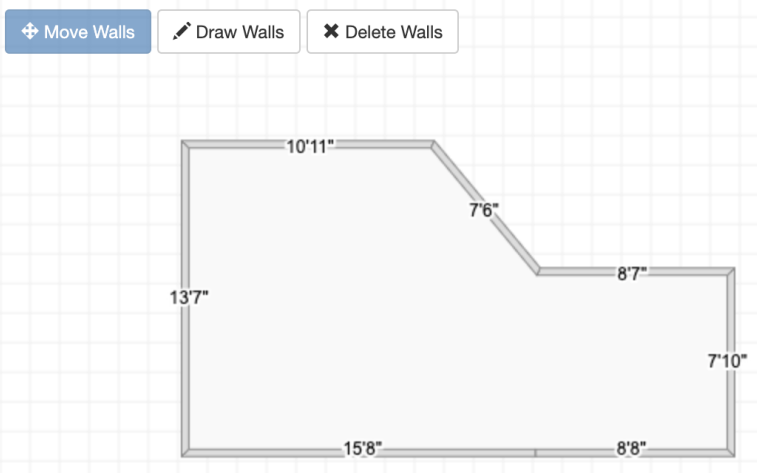
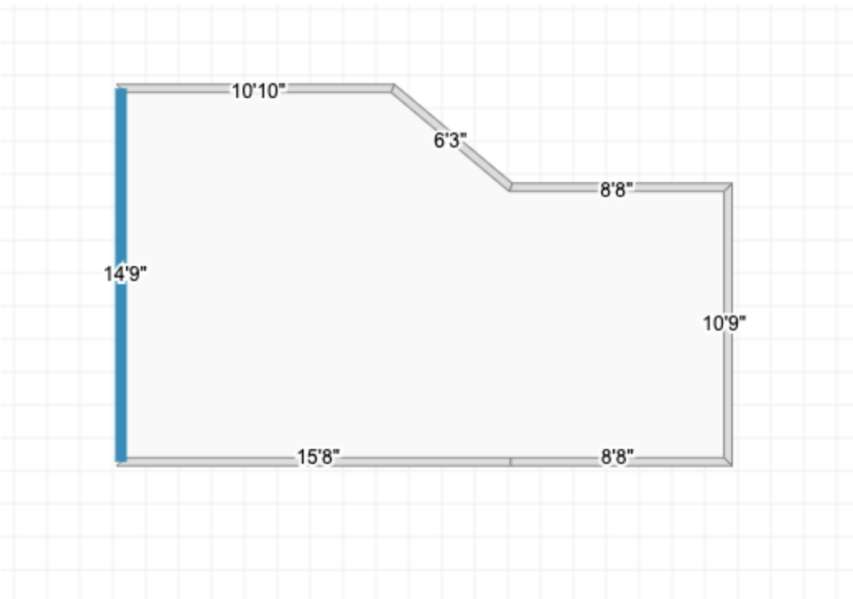
Plan Time: 03/31/06:00

Scale:

id:0, rect\_room, w:200, h:200

Mark	ID	Name	Group	Setup_start	Setup_end	Breakdown_start	Breakdown_end	Owner	Finished
<input type="checkbox"/>	0	rect_room	default	03/31/06:00	03/31/07:00	03/31/06:00	03/31/07:00	n/a	<input type="checkbox"/>
<input type="checkbox"/>	1	round_room	default	03/31/06:00	03/31/07:00	03/31/06:00	03/31/07:00	n/a	<input type="checkbox"/>
<input type="checkbox"/>	2	camera	default	03/31/06:00	03/31/07:00	03/31/06:00	03/31/07:00	n/a	<input type="checkbox"/>

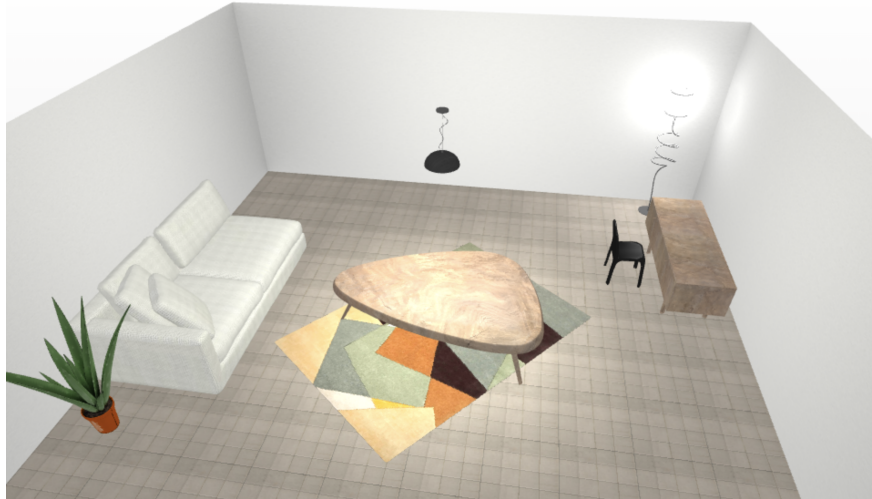
- Explored 3D rendering using WebGL ( Huixin Zhang )
  - Experimental Project
    - Develop tool: WebGL.
    - WebGL-based 3D room previewer optimized.
    - Exploring a way to bridge PlanNXT and 3D modeling toolkits.
  - Room planner demo: <https://zhanghuixin1103.github.io/3D-Room/>
  - 2D View:



○ 3D Preview:



## ROOM PREVIEW



## User Stories to Implement

- Add more symbols and icons to make the rendering more realistic
- Dependency check (Stefan Wu, Tian Liu)

Once you click the “Dependency Check” button, it will jump to the dependency check page, where you can set the time for each group and add the dependency for each group. It will print the conflicts and ask the user to fix the corresponding setup time.

- Allow sharing of plans between users (Amory Doerr)
  - Maintain strict user permission tiers
- CRMNXT integration (Amory Doerr)
  - Allow GET for obtaining account information
  - Allow PUSH to enable/disable users
- Recreate the home screen (Amory Doerr)
  - Include a ‘promo’ section to describe the application
  - Display ‘archived’ plans shown by users

add a column "group" click  
set up dependency

[Back to canvas](#)

Set Time and Dependency for Groups

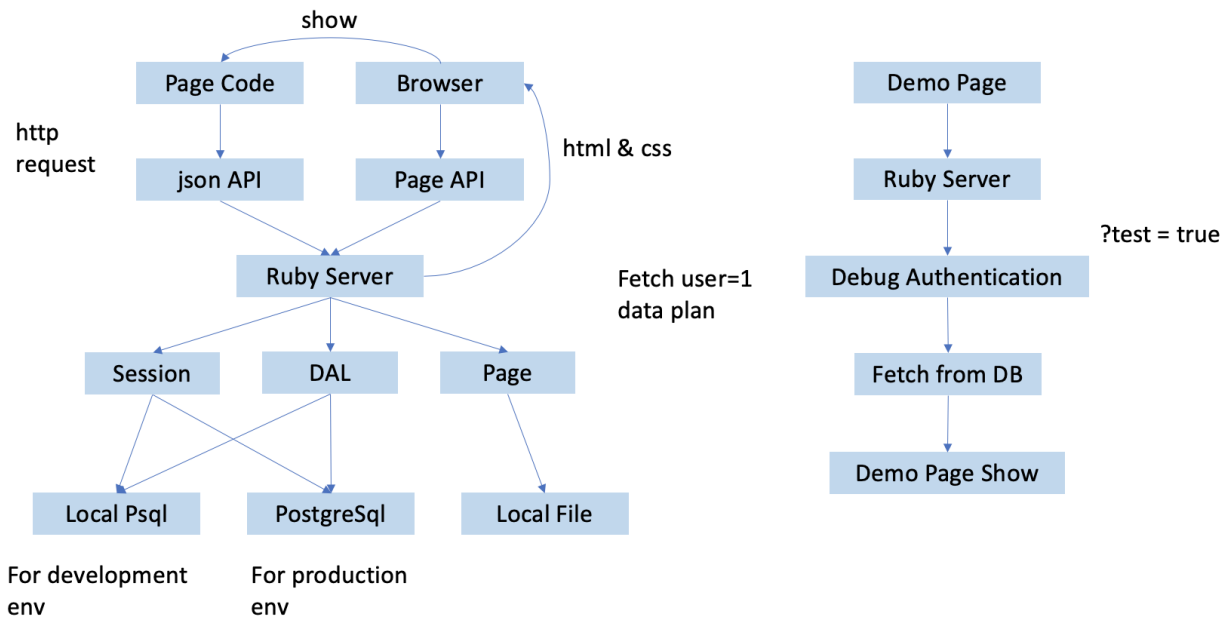
Group	Setup_start	Setup_end	BD_start	BD_end	Depend on
Carpet	2023-3-23 8:00	2023-3-23:10:00	2023-3-23 20:00	2023-3-23 21:00	-
Chairs	2023-3-23 10:00	2023-3-23:12:00	2023-3-23 18:00	2023-3-23 20:00	Carpet
Wires	...	...	...	...	...

**Check Dependency Conflicts**

- Congratulations! No conflicts found.
- Error! Conflicts between Carpet and Chair. Please update their setup/breakdown time.

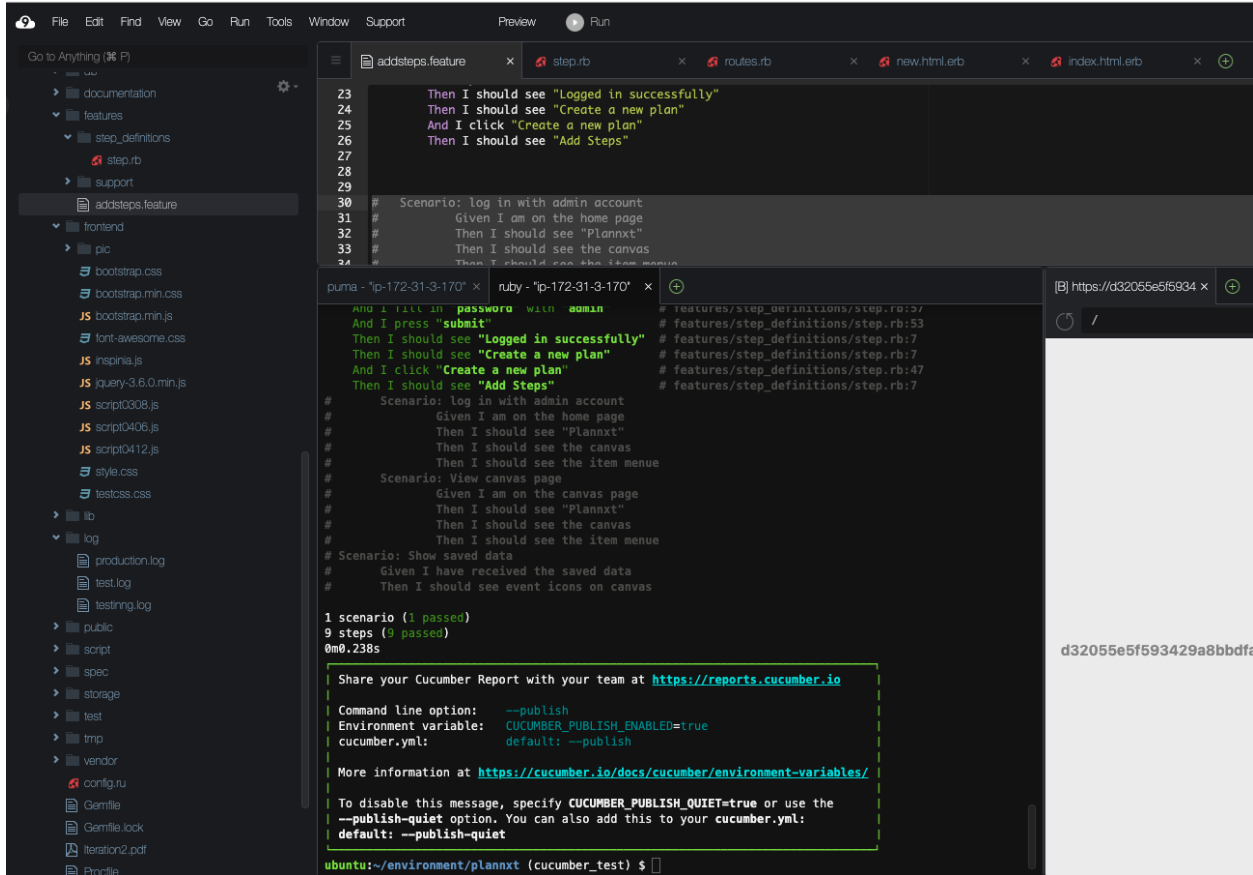
## Design Diagram (UML)

Because this is a legacy project, we used the latest UML diagram from the previous team’s report to show the architecture of the Application.

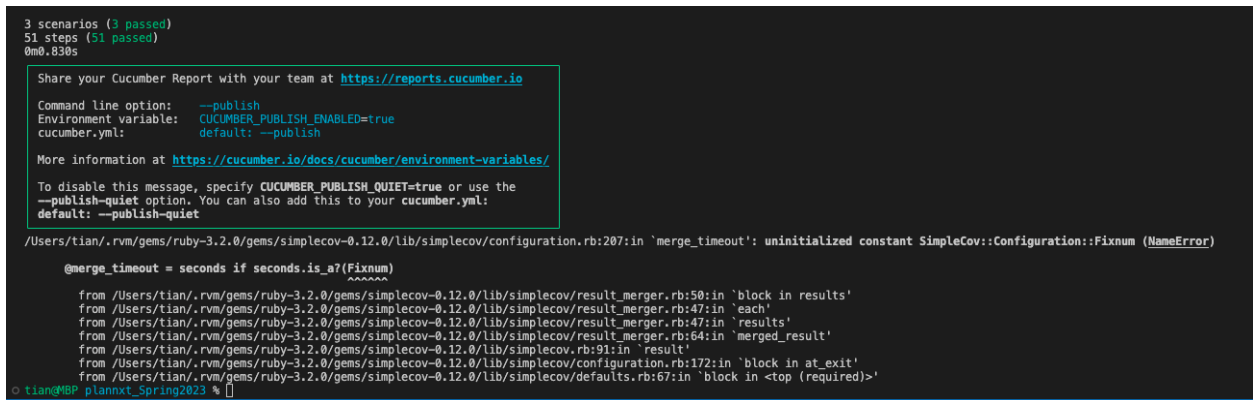


## Evaluations

- The AddDays feature involves significant changes on Ruby code. See the TDD test done above.
- Other features mainly involves HTML, JS code update
- We are working on fixing the Cucumber test bug left by the previous team
- Cucumber test result for AddSteps feature (Tian Liu)
- Contact from CrmNXT near the end of this iteration called for halting progress on plan sharing to prioritize the implementation of CRM API (Amory Doerr)



- Cucumber test for canvas page content and navigation between pages






- Cucumber test for all existing features

```
2
Rendering layout layouts/application.html.erb
Rendering plan_models/index.html.erb within layouts/application
PlanModel Load (0.4ms) SELECT "plan_models".* FROM "plan_models" WHERE "plan_models"."creator" = $1 ORDER BY created_at DESC [["creator", 2]]
PlanModel Count (0.6ms) SELECT COUNT(*) FROM "plan_models" WHERE "plan_models"."creator" = $1 [["creator", 2]]
Rendered plan_models/index.html.erb within layouts/application (Duration: 2.5ms | Allocations: 475)
Rendered layout layouts/application.html.erb (Duration: 5.2ms | Allocations: 20)
Completed 200 OK in 8ms (Views: 4.7ms | ActiveRecord: 1.3ms | Allocations: 2670)
Open file in editor (cmd + click)
And I press "Sign Up"
Then I should see "Successfully created account! Automatically logged in!" # features/step_definitions/step.rb:57
Then I should see "Create a new plan" # features/step_definitions/step.rb:7
TRANSACTION (0.4ms) ROLLBACK
# Then I should see the canvas
# Then I should see the item menu
# Scenario: Show saved data
# Given I have received the saved data
# Then I should see event icons on canvas
5 scenarios (5 passed)
69 steps (69 passed)
0m1.026s
View your Cucumber Report at:
https://reports.cucumber.io/reports/1eb42dbd-00d9-462c-862b-0ac3b6247729
This report was published in collection "sky"
/Users/tian/.rvm/gems/ruby-3.2.0/gems/simplecov-0.12.0/lib/simplecov/configuration.rb:207:in `merge_timeout': uninitialized constant SimpleCov::Configuration::Fixnum (NameError)
@merge_timeout = seconds if seconds.is_a?(Fixnum)
from /Users/tian/.rvm/gems/ruby-3.2.0/gems/simplecov-0.12.0/lib/simplecov/result_merger.rb:50:in `block in results'
from /Users/tian/.rvm/gems/ruby-3.2.0/gems/simplecov-0.12.0/lib/simplecov/result_merger.rb:47:in `each'
from /Users/tian/.rvm/gems/ruby-3.2.0/gems/simplecov-0.12.0/lib/simplecov/result_merger.rb:47:in `results'
from /Users/tian/.rvm/gems/ruby-3.2.0/gems/simplecov-0.12.0/lib/simplecov/result_merger.rb:64:in `merged_result'
from /Users/tian/.rvm/gems/ruby-3.2.0/gems/simplecov-0.12.0/lib/simplecov.rb:91:in `result'
from /Users/tian/.rvm/gems/ruby-3.2.0/gems/simplecov-0.12.0/lib/simplecov/configuration.rb:172:in `block in at_exit'
from /Users/tian/.rvm/gems/ruby-3.2.0/gems/simplecov-0.12.0/lib/simplecov/defaults.rb:67:in `block in <top (required)>'
o tian@MBP features %
```

Cucumber Reports Log out

sky / 1eb42dbd-00d9-462c-862b-0ac3b6247729

5 PASSED

<b>100% passed</b> 5 executed	<b>a few seconds ago</b> Last Run	<b>1.02 seconds</b> Duration
 darwin21	 ruby 3.2.0	 cucumber-ruby 8.0.0

Delete Report

features/addstep.feature

features/canvas\_navigation.feature

features/editcanvas.feature

features/signin.feature

features/signup.feature

## RSpec tests for TDD testing:

This APP does not have any existing test cases. Wrote TDD test cases for new as well existing features. Coverage of the code is low as there are many existing code for which a test does not exist. Will write TDD for all those features in the upcoming iteration.

Coverage report for TDD:

All Files ( 35.55% )							
Controllers ( 33.83% )							
Channels ( 0.0% )							
Models ( 100.0% )							
Mailers ( 0.0% )							
Helpers ( 66.67% )							
Jobs ( 0.0% )							
Libraries ( 100.0% )							
Generated 2 days ago							
All Files ( 35.55% covered at 0.46 hits/line )							
28 files in total.							
256 relevant lines, 91 lines covered and 165 lines missed. ( 35.55% )							
Search: <input type="text"/>							
File	% covered	Lines	Relevant Lines	Lines covered	Lines missed	Avg. Hits / Line	
app/controllers/application_controller.rb	100.00 %	11	6	6	0	2.67	
app/helpers/event_steps_helper.rb	100.00 %	2	1	1	0	1.00	
app/helpers/password_resets_helper.rb	100.00 %	2	1	1	0	1.00	
app/helpers/passwords_helper.rb	100.00 %	2	1	1	0	1.00	
app/helpers/plan_model_helper.rb	100.00 %	2	1	1	0	1.00	
app/helpers/plan_models_helper.rb	100.00 %	2	1	1	0	1.00	
app/helpers/registrations_helper.rb	100.00 %	2	1	1	0	1.00	
app/helpers/sessions_helper.rb	100.00 %	2	1	1	0	1.00	
app/helpers/welcome_helper.rb	100.00 %	2	1	1	0	1.00	
app/models/application_record.rb	100.00 %	3	2	2	0	1.00	

## Links

- Heroku deployment: <https://plannxt.herokuapp.com/>
- Pivotal Tracker: <https://www.pivotaltracker.com/n/projects/2632066>
- Github: [https://github.com/tian1327/plannxt\\_Spring2023](https://github.com/tian1327/plannxt_Spring2023)
- Slack: <https://app.slack.com/client/T04MD0D7JUW/C04MD0DA0CW>
- Project tracking sheet: [https://docs.google.com/spreadsheets/d/1fuGQ4pg3e9oblH8lAyWd6LOM0U-9pO\\_DMsepnc7uj2A/edit#gid=1557543451](https://docs.google.com/spreadsheets/d/1fuGQ4pg3e9oblH8lAyWd6LOM0U-9pO_DMsepnc7uj2A/edit#gid=1557543451)