Heading:
"System and Unit Test Report"
Scrum Tracker
The scrum trackers
11/29/2021

System Test scenarios (25 points per sprint – total 75 points)

Sprint #1

User Story #1: As a dev, I want secure login / logout.

Scenario #1:
1. Load the web app
2. Click on the Login button on the top right corner of the page
    a. Should see browser pop up with google credentials
3. Select desired Google Account
    a. The site should reload with your products and invitations shown on the Home Page

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User Story #2: As a dev, I want to be able to create a project and view

Scenario #2:
1. After logging in the user should be delivered to the home page.
2. From the home page a user can view all available products, or the user can insert text into the create product field and submit.

Sprint #2

User Story #1: As a product owner, I want to be able to share a project.

Scenario #1:
1. After creating a product go to the settings page by clicking on the hamburger icon in top left corner of the header.
2. Then click the settings tab.
3. On the settings page you will see an Add Users title, where you can input a user's email that you want to invite. Click enter.
4. The invited user will now see an invite to a project on their product selection page

5. Apon clicking accept on their invite they will be added to the current users in the settings page

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User Story #2: As a product owner, I want to be able to create a user story.

User Story #3: As a dev, I want to be able to add tasks to a user story

Scenario #{2,3}:
1. After selecting a product, user must open side bar(top left icon on top bar). User can navigate to the backlog page.
2. Once at the backlog page, user can find a button near the top right. That says "Add User Story" click on it.
3. A Text Field pops up, entry user story text, and select priority with a priority selection bar. Then click "Create"

User Story #4: As a dev, I want to be able to see User Stories in the Sprint backlog page
User Story #5: As a dev, I want to be able to move user stories from Product backlog to Sprint backlog

Scenario #{4,5}:
1. Navigate to the sprint backlog page
2. Click the Add sprint button in the bottom right of the page
3. Click the Sprint drop down in the top right of the page and select 'sprint 1'
    a. You should now see two title 'backlog stories' and 'sprint stories'
4. If you have already added user stories, you should see them underneath the backlog
5. You can click move to sprint on each user story card to move the user story to the current sprint

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User Story #6: As a dev, I want to be able to view a Scrum board, with user stories as rows

Scenario #6:
1. Once a user has selected a product and added a userstory.
2. Using the sidebar, navigate to Scrum Board.

Sprint #3

User Story #1: As a dev, I want to select the current sprint on the Scrum board
Scenario #1:
1. With product selected that has sprints assigned.
2. User can navigate to the scrum board.
3. At the scrum board there is a selection menu. Top left of page. Click on the menu and it expands to show all possible sprints. Click on a sprint to select.

User Story #2: As a dev, I want to be able to assign myself tasks

User Story #3: As a dev, I want to be able see my own tasks color coded on the scrum board

Scenario #{2, 3}:
1. Select a product on the home page.
    a. This should take you to the Scrum Board page.
    b. If you have user stories and tasks, the scrum board should be populated with user stories that have been added to the selected sprint.
2. Click on the blue triangle and click "Assign yourself to task".
    a. If you click the triangle again, it will say who the task is assigned to.
    b. The task color should change automatically to the color of whoever is assigned the task.
3. If the color does not change, go to the setting page and use the color selection feature to give yourself a color.

User Story #4: As a dev, I want to be able to move a task into different columns on the scrum board

Scenario #4:
1. Navigate to the scrum board with a product selected
2. Click the arrow next to a task on the board
    a. You should see a pop up menu
3. Select "Move Task to Next Stage"
    a. The task should display under the next column

User Story #5: As a product owner, I want to be able to see completed user stories in the backlog.

User Story #6: As a product owner, I would like to see completed user story rows on the board at the bottom and incomplete user stories as top rows.

Scenario #{5,6}:

1. Add a user story to your product, and move the user story to the current sprint
2. Add a task to the user story you created
3. Navigate to the scrum board page.
4. Click on the task, and click move to next stage
    a. Do this until the task is in the completed stage
    b. You should see a green box with the message user story complete appear on the board
5. Navigate to the product backlog page
    a. You should see the user story appear with the heading complete

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User Story #7: As a dev, I want to be able to edit tasks.
Scenario #7:

1. Create a User story, and add a task to that user story.
2. On the user story card in the product backlog page, next to the task you added should be a button titled 'edit'.
3. Add text to the task name in the text form that appears.
4. Click Save, and the task name should be updated.

User Story #8: As a user, I want to be able to create a new sprint
User Story #9: As a user, I want to be able to delete a sprint

Scenario #{8,9}

1. With Product selected user can navigate to the sprint backlog page via sidebar.
2. From the sprint backlog page: the page has a card that is titled "Add Sprint". Select dates from sprint then click the Add Sprint button.
3. To delete sprint, first select the sprint you wish to delete from the Sprint selection bar top left of the page. Then click "Delete" next to the sprint selector.

Sprint #4

User Story #1: As a developer, I would like to see the full Backlog page regardless of device screen size.
Scenario #1:

1. Now when navigated to the backlog page. User can see "Create" button, when creating a User Story for any page size.

User Story #2: As a developer, I would like to see Sprints with proper naming in the dropdown of the sprint backlog and the scrum board.

Scenario #2

1. Create a sprint on the sprint backlog page.
2. In the sprint selector in the top left you should see the sprints you have created neatly numbered along with their start and end dates.

User Story #3: As a dev, I want to see consistent styling across all pages.

Scenario #3

1. On all page of the app, you should see a white color scheme with blue highlights, and dark shadows around cards

Unit tests

1. Matthew Zurlin

I created several components within our app. Then I would manually launch the server and try to find edge cases and break the app. And also check that the expected behavior happened when clicking on buttons and doing database queries.

2. Brandon Kwe

I worked primarily on the Backlog page, creation of user stories, creation of tasks, and updating of the state of user stories and tasks based on whether or not they should be complete. I primarily tested my components by viewing the live updates to firebase and seeing if the new documents were being instantiated or deleted. In addition, I would view the way the components rendered to ensure they were being refreshed along with the data and states. I made sure the states were being updated in the firebase as well. For example, if a user story is considered complete and a new task is added, the state should change so that the user story is no longer complete.

3. Ryan Bahl

I was in charge of the sprint backlog page. I tested the UI components in the sprint backlog by inputting dummy data and walking through all the steps of a normal user. I verified that the components interfaced with the back end correctly by watching for the live updates in the other components as well as checking the raw data in the Firebase console.

4. Niland Schumacher

I worked mostly on the Scrum board. To test the Scrum board I would add and remove both tasks and user stories to continuously check that the board was loading correctly. If a task or stage were to be moved, I would check that the task and stages render appropriately so that the board was still understandable, and neat. Also whenever someone was making a change to how any of the data was stored on the backend, I would ensure that the Scrum board would be able to handle the changes to the data.