Test suites for Jog Project Manager

Test Suite 1: UI

The main method used in testing the UI was Random Testing/Adhoc testing, this method was selected because of the nature of UI testing.

Test Cases

Test Case ID	Tester Name	Test Description	Inputs	Expected Output	Actual Output	Test Pass/Fail
TC1.01	Ellie	Side menu bar closes	Click on double arrows to close sidebar	Product backlog expands and fills the space	Product backlog expands and fills the space	Pass
TC1.02	Ellie	Double arrows indicate	Clicked double arrows	Double arrows change direction to	Double arrows change direction to	Pass

		open and closed to user		represent open as the new option	represent open as the new option	
TC1.03	Ellie	Side menu bar opens	Clicked double arrows	Product backlog collapses and the side menu bar is displayed with assignee details	Product backlog collapses and the side menu bar is displayed with assignee details	Pass
TC1.04	Ellie	Home button (sidebar closed)	Click the home button on the navigation panel	The product backlog should display and sidebar stays closed	The product backlog is displayed and sidebar stays closed	Pass
TC1.05	Ellie	Home button (sidebar open)	Click the home button on the navigation panel	The product backlog should display and sidebar stays opened	The product backlog is displayed and sidebar stays opened	Pass
TC1.06	Ellie	Add first sprint	Click the plus button on the navigation panel	A new square icon (sprint) should display	A new sprint is created and the button is added to the nav bar	Pass
TC1.07	Ellie	Sprint icon hover	Hover over a sprint icon	Should show readable text with the sprint number	Shows readable text with the sprint number	Pass
TC1.08	Ellie	Sprint click	Click sprint icon	Should change the view to sprint view	Changes the view to sprint view and displays the sprint name	Pass
TC1.09	Ellie	Add more than 10 sprints popup	Press the plus button with 10 sprints already initialised	Should show a pop up message and prevent the sprint from being created	Pop up with message "you can't have more than 10 sprints"	Pass
TC1.10	Ellie	Delete sprint	Hover over sprint	Should be able to delete a sprint and icon be removed	No option	Fail
TC1.11	Ellie	New task button	Click the new task button	New task creation modal should show up	New task modal opens up	Pass
TC1.12	Ellie	Task card edit	Click on an existing task card	Should open the task modal for editing	Opens the task modal for editing	Pass
TC1.13	Ellie	Sprint move (from open)	Click the arrow button next to task card	Should move the task to in progress	Moves the task to in progress	Pass
TC1.14	Ellie	Sprint move (from in progress)	Click the arrow button next to task card	Should move the task to closed	Moves the task to closed	Pass
TC1.15	Ellie	Update priority	Click priority from task view	Updates priority, and remains even moving around	Updates priority, and remains even moving around	Pass

TC1.16	Ellie	Add assignee	Click assignee button from task view	Opens modal for updating	Opens modal for updating	Pass
TC1.17	Ellie	Assignee icon	Assign task to someone	Shows assignee initials on task card	Shows assignee initials on task card	Pass
TC1.18	Ellie	Search	Type name in search bar	Filters the assignee list to search criteria	Filters the assignee list to search criteria	Pass
TC1.19	Ellie	Tasks assigned	Assign task to someone	Assignee card shows number of tasks assigned	Assignee card shows number of tasks assigned as 1	Pass
TC1.20	Ellie	Submit button	Hover over create button on task modal	Should have some sort of feedback (opacity changed) and then closes modal	Button goes dark on hover and then closes modal on click	Pass

Test Suite 2: Task Modal

Testing for tasks being added with information. There are a lot of dependencies on certain inputs before a task can be accepted.

Test Cases

Test Case ID	Tester Name	Test Description	Inputs				Expected Output	Actual Output	Test Pass/Fail
			Title	Due date	Task status	Points			
TC2.01	Ellie	Testing using only valid inputs.	Task 1	21/10/22	Selected	1	Add task 1 that shows 21/10/22 on task card	Adds task 1 with due date on task card	Pass
TC2.02	Ellie	Testing using no task title.		21/10/22	Selected	1	Don't add the task, show error message	Adds task 1	Fail
TC2.03	Ellie	Testing due date before current	Task 1	21/10/19	Selected	1	Don't add the task, show error message	Adds task 1	Fail

		date							
TC2.04		Testing no task status	Task 1	21/10/22		1	Don't add the task, show error message	Adds task 1	Fail
TC2.05	Ellie	Testing invalid points	Task 1	21/10/22	Selected	-1	Don't allow task creation	Only allows a drop-down of valid options	Pass

I tested the base case, all inputs for the task modal to check if it stays in local storage, on edit. Test passed

Test Suite 3: Adding Assignees

Equivalence Class Partitioning is used to test the requirement that assignees can be added to the project by inputting their name, phone number, position, and email address.

Test Cases

Test Case ID	Tester Name	Test Description	Inputs				Expected Output	Actual Output	Test Pass/Fail
			Name	Phone Number	Position	Email			
TC3.01	Ellie	Testing using only valid inputs.	Ellie Campbell	0412345678	Manager	email@gmail.com	Add a new person to the sidebar with details and no tasks assigned yet	Adds a new person to the sidebar with details and tasks assigned: 0	Pass
TC3.02	Ellie	Testing an invalid name length	abcdefghijklmnopqrstuddd	0412345678	Manager	email@gmail.com	Show invalid message and do not add person	Adds new person	Fail
TC3.03	Ellie	Testing an empty name		0412345678	Manager	email@gmail.com	Show invalid message and do not add person	Shows message "Please fill in this field!"	Pass

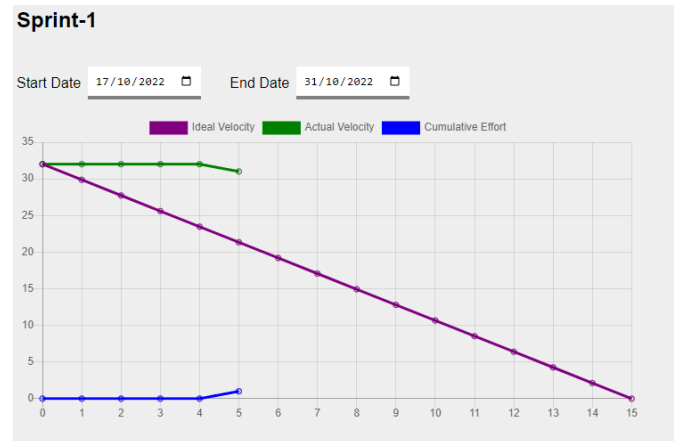|		input							
TC3.04	Ellie	Testing position with invalid length	abcdefghijklm nopqrstuddd	0412345678	Manager	email@gmail.c om	Show invalid message and do not add person	Adds new person	Fail
TC3.05	Ellie	Testing invalid phone number with letters	name	41eee2345678	Manager	email@gmail.c om	Show invalid message and do not add person	Adds new person	Fail
TC3.06	Ellie	Testing with no phone number input	name		Manager	email@gmail.c om	Show invalid message and do not add person	Shows message "Please fill in this field!"	Pass
TC3.07	Ellie	Testing a position with no input	name	041235678		email@gmail.c om	Show invalid message and do not add person	Shows message "Please fill in this field!"	Pass
TC3.08	Ellie	Testing no email input	name	+61412345678	Manager		Show invalid message and do not person	Adds new person	Fail
TC3.09	Ellie	Testing invalid email	name	0412345678	Manager	email	Show invalid message and do not person	Adds new person	Fail

Test Suite 4: Displaying Charts

The strategy for this is ad hoc testing. There are no input values to test so it is based on checking tasks in the sprint and making sure the data is aligned and presented correctly.

Test Cases

Test Case ID	Tester Name	Test Description	Expected Output	Actual Output	Test Pass/Fail
TC4.01	Ellie	Show only one graph line	Ideal velocity is hidden	Ideal velocity line is hidden, others remain	Pass
TC4.02	Ellie	X-axis displays correctly	X-axis shows total days in the sprint	X-axis shows total days in the sprint (15 from 17/10 - 31/10)	Pass
TC4.03	Ellie	Y-axis displays correctly	Y-axis shows total hours based on points	Y-axis shows total hours based on points (32 from 8 points)	Pass
TC4.04	Ellie	Accumulation of effort is growing	Shows effort based on time tracked for each day	Spikes on the day time is tracked (shows 1 for 1 hour)	Pass
TC4.05	Ellie	Ideal velocity	Ideal velocity is linear from starting hours generated (y-axis)	Ideal velocity starts at 32 and goes to 0 by 15 days	Pass
TC4.06	Ellie	Actual velocity	Actual velocity reduces based on time tracked	Actual velocity remains at 32 until 1 hour is logged and goes to 31	Pass

Example output:

Test Suite 5: Portability

Tests the base cases for each browser. One is the task creation modal, product backlog view, sprint creation, and sprint view.

Test Cases

Test ID	Tester Name	Test Description	Input/Test Procedure	Expected Output	Actual Output	Pass/ Fail
TC5.01	Ellie	Testing application on chrome	Test all base cases (above)	New task, shown in product backlog/sprint and menu bar shows sprints	New task, shown in product backlog/sprint and menu bar shows sprints	Pass
TC5.02	Ellie	Testing application on microsoft edge	Test all base cases (above)	New task, shown in product backlog/sprint and menu bar shows sprints	New task, and menu bar shows sprints. But the task card doesn't show in the product backlog and no option to add to sprint	Fail

Test Suite 6: Usability

For the application to conform with Non-Functional Requirement Usability, its appearance must be user-friendly with appropriate contrast and browser compatibility. Appearance must adhere to the conventions of other project management tools. It should be straightforward so that end-users with basic knowledge can manage their tasks. To determine the usability of the application, comparisons will be made with the designs done by the Ui team, given they are accounting for these user-friendly principles.

## Adobe XD Design
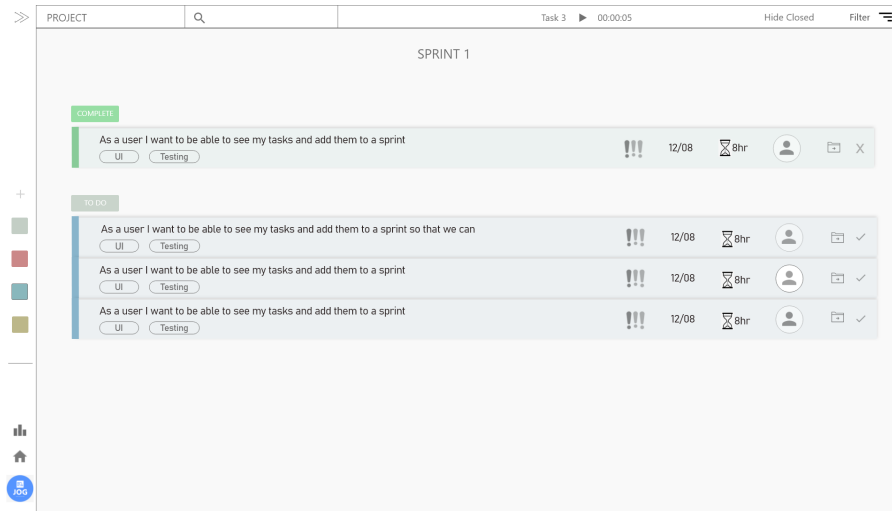
Code Design
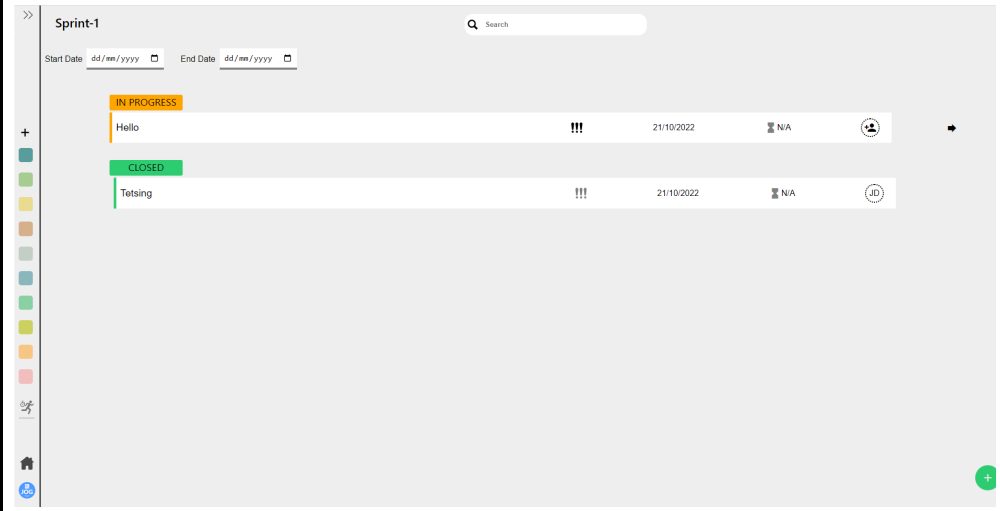
Aside from colour variations, most of the UI design has been implemented. The sprint icons worked effectively, and the code added additional functionality with the hover feature. The task status groups were implemented and work really nicely with the code.

The task card isn't as detailed but the folder icon and cross/tick buttons have been ejected and turned into an arrow on the right, which combines the functionality.
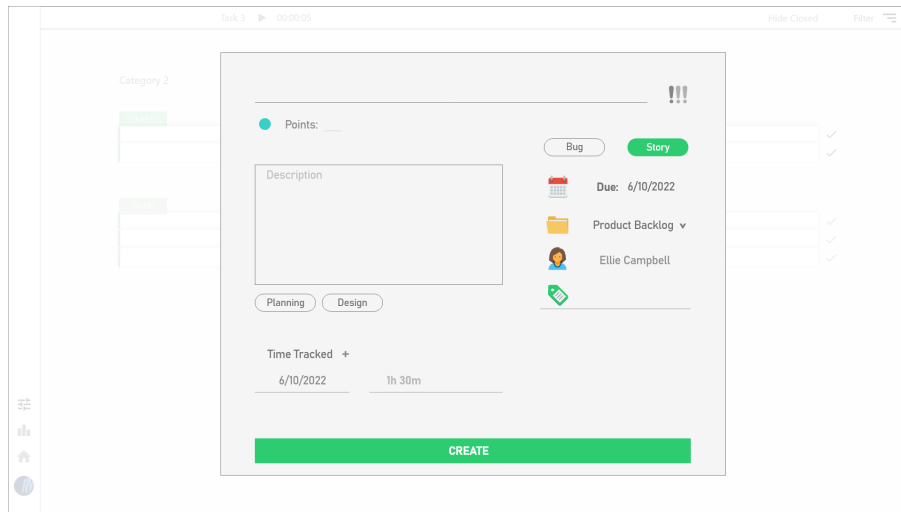
Adobe XD Design	Code Design
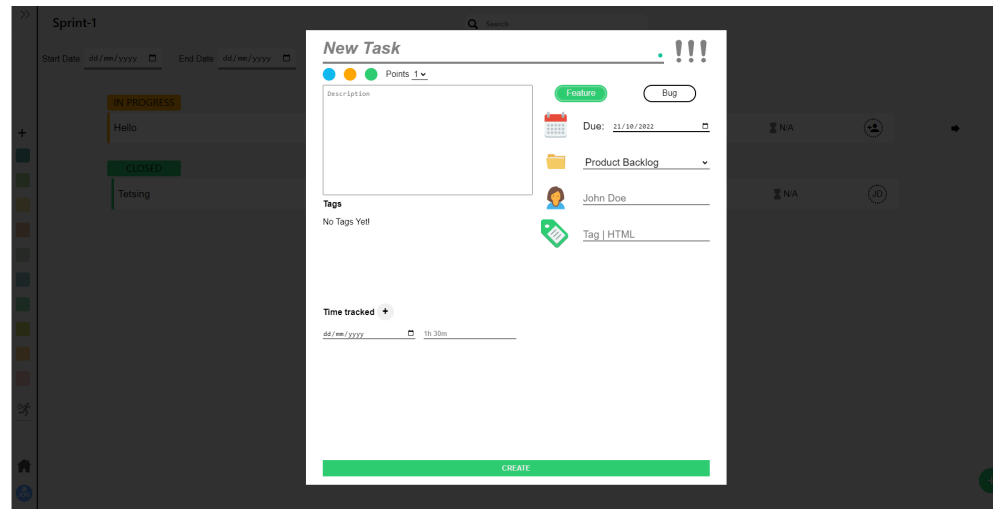
The overlay is dark rather than light, but this makes the modal pop, assisting any users with visual impairments for example. The priority feature matches the design and is extremely intuitive for a user. The task status buttons have been optimised to allow for clearer selection. Everything else is fairly spot-on in terms of design and user interaction.
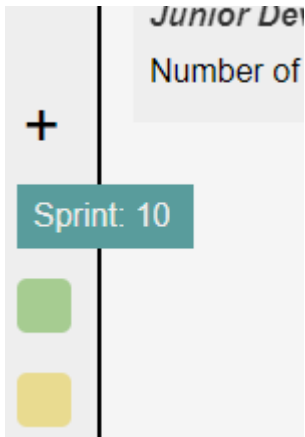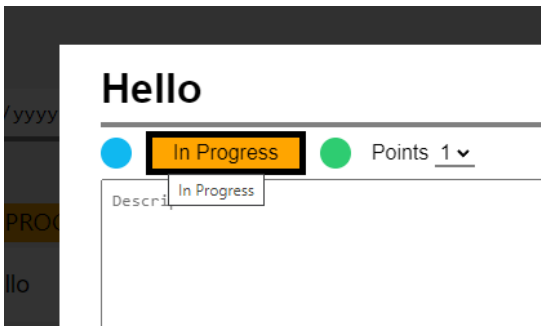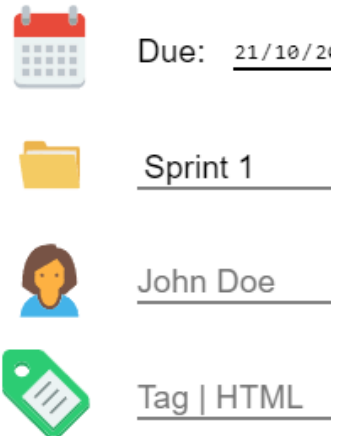
Appropriateness Recognisability:
For the application to be usable, it should replicate the appearance of common project management tools.

ClickUp uses the task groups functionality

Priority is often associated with exclamation marks

Learnability:

For a program to be considered easy to use, it should have appropriately labeled buttons and extra details for any confusing behaviors.

Sprint hover displays the sprint number for more information	On hover shows which task status the button is associated with. It is a clever design and appealing to use	Familiar icons that users can associate with, and placeholder text