

Agile Task Tracker

CA326 Third Year Project

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Use Case Testing

Reference Number (with image)	Scenario	Result	Developer Comments / Proposed Solution
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Dashboard Page

#001	Fig wheel Server Started without Elasticsearch running, user tries to connect to website.	java.net.connectException at / connection refused. See image #001	As Intended. For Dev only	
#001Uber	Uberjar Server Started without Elasticsearch running, user tries to connect to website.	Http 500 error Problem accessing. See image #001Uber	As Intended	
#002	When creating an organisation, user only fills out the organisation name	No organisation is created on the database and the user is shown an alert informing them to fill out all the required details	Works as intended	
#002	When creating an organisation, user only fills out the organisation ID	No organisation is created on the database and the user is shown an alert informing them to fill out all the required details	Works as intended, ID generation	
#003	When creating an organisation, user fills out a valid name, but enters an ID with a whitespace	No organisation is created on the database and the user is shown an alert informing them to remove all whitespaces from the ID	Works as intended, ID generation to be implemented	
#004	With no other organisations on the database, when the user attempts to create a new organisation with a valid id and valid name	The organisation is created on the database, and a button is generated to bring the user to the projects associated with that organisation.	Works as intended	

#005	With at least 1 other organisation on the database, user attempts to make another organisation with a different ID but with the same name.	As the IDs are unique, the second organisation is created successfully, with its own separate button for its project. Now two buttons with the same organisation names are rendered on the page, with links to their respective organisation's associated projects.	This will quite clearly lead to confusion on the user's part. Must implement a check that organisation names are unique before creation.	
#006	With at least 1 other organisation on the database, user attempts to make another organisation with the same ID and a different name	Warning that org already exists but replaces old org on refresh.	Check for duplicates is only checked on rendering of task, not on database. Needs to check database for duplicates. Otherwise its overwritten	
#007	With at least 1 other organisation on the database, which has at least 1 project associated with it, the user attempts to make another organisation with the same org ID	Same issue as #006 but project is migrated to new org name	As #006	
#008	Enough organisations are made to not fit on a single row	Distributes rows out across page	Image #008	
#009	Enough organisations are made to not fit on a single screen	Becomes scrollable	Image #009	

Image 1

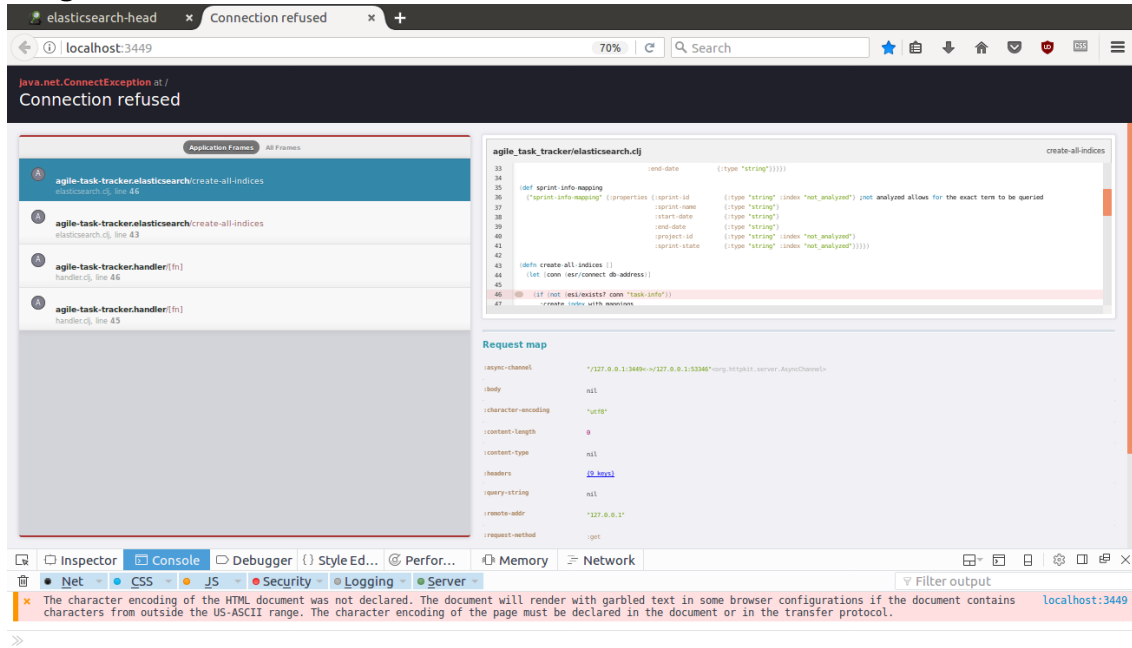


Image 1 Uber Jar

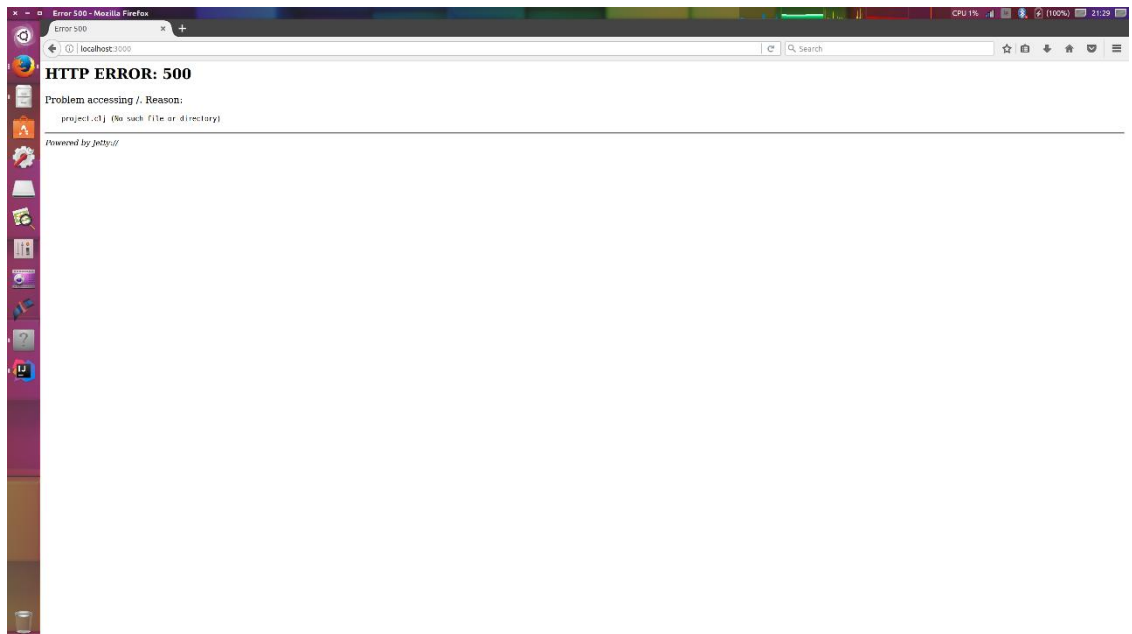


Image 2

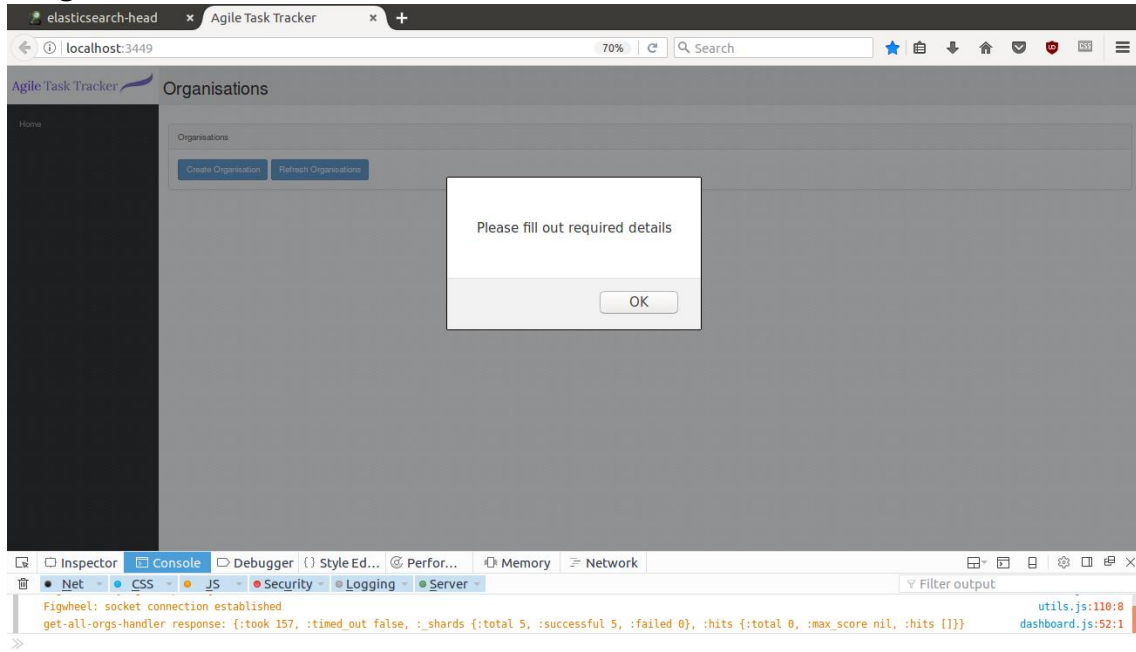


Image 3

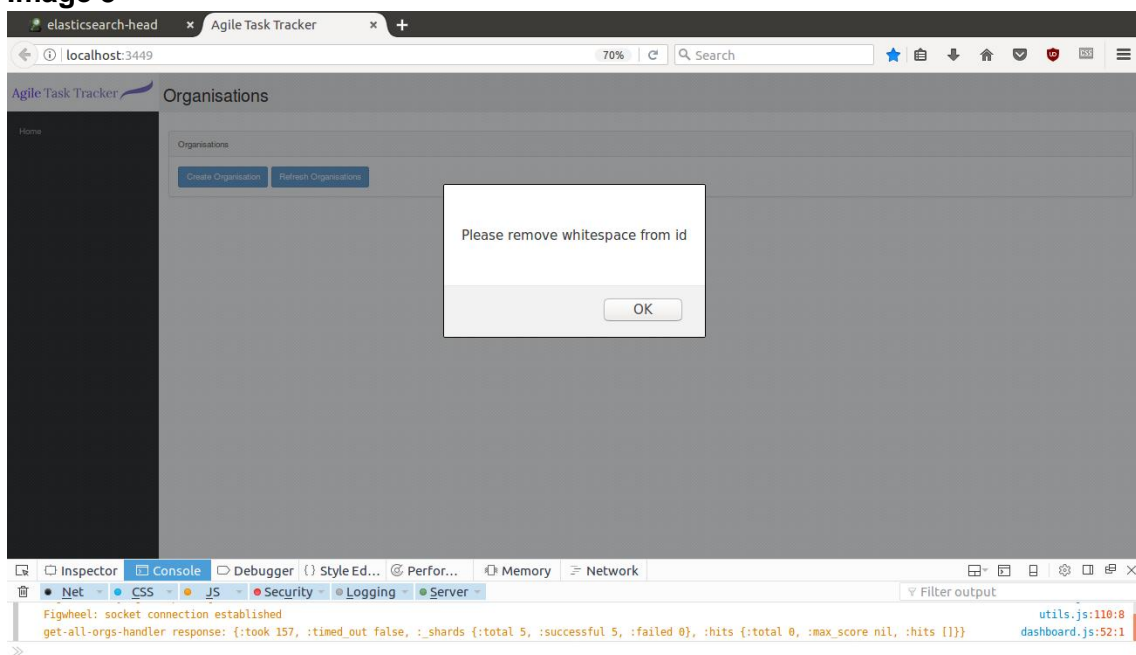


Image 4

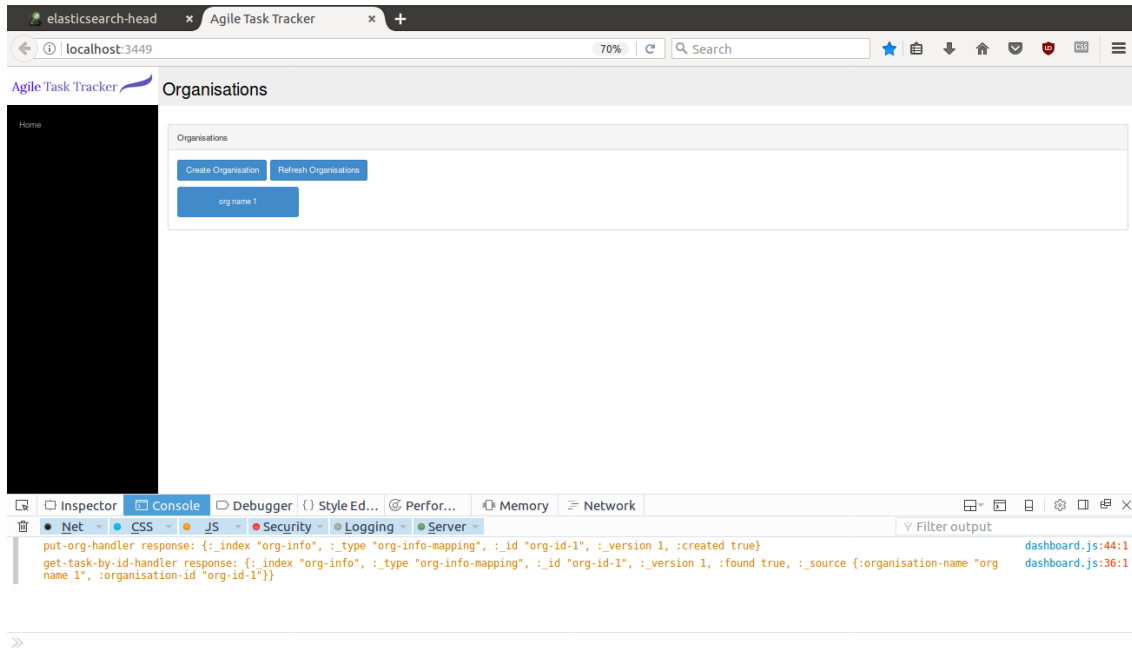


Image 5

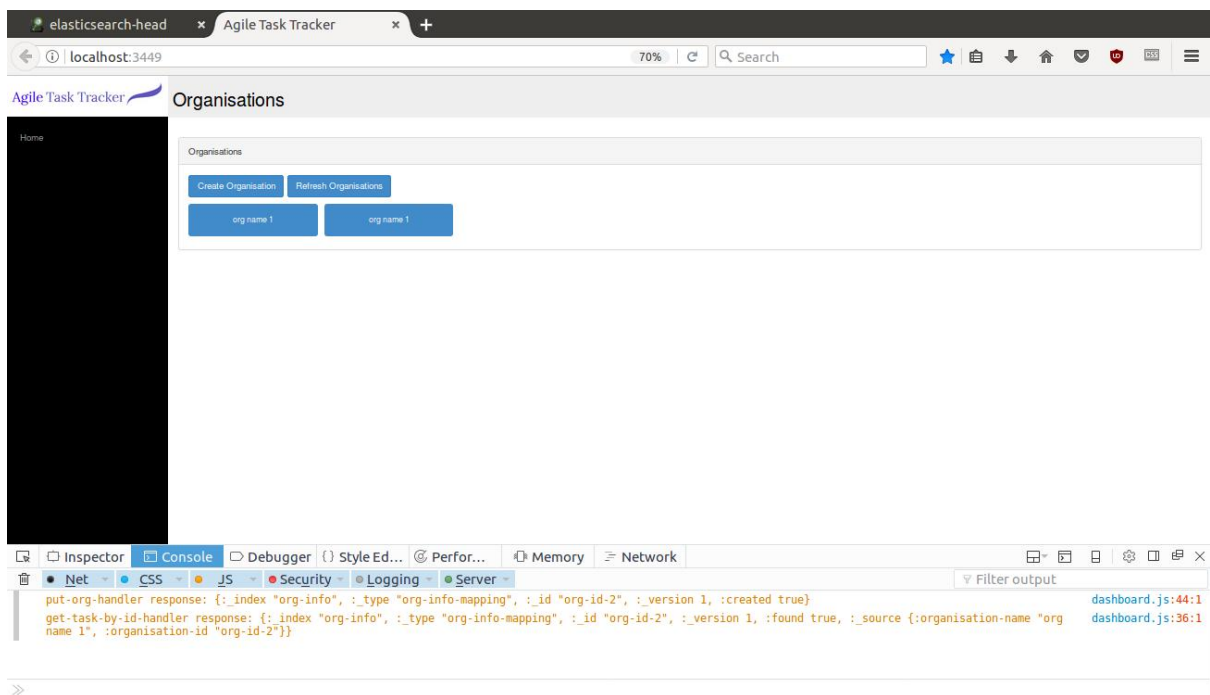


Image 8

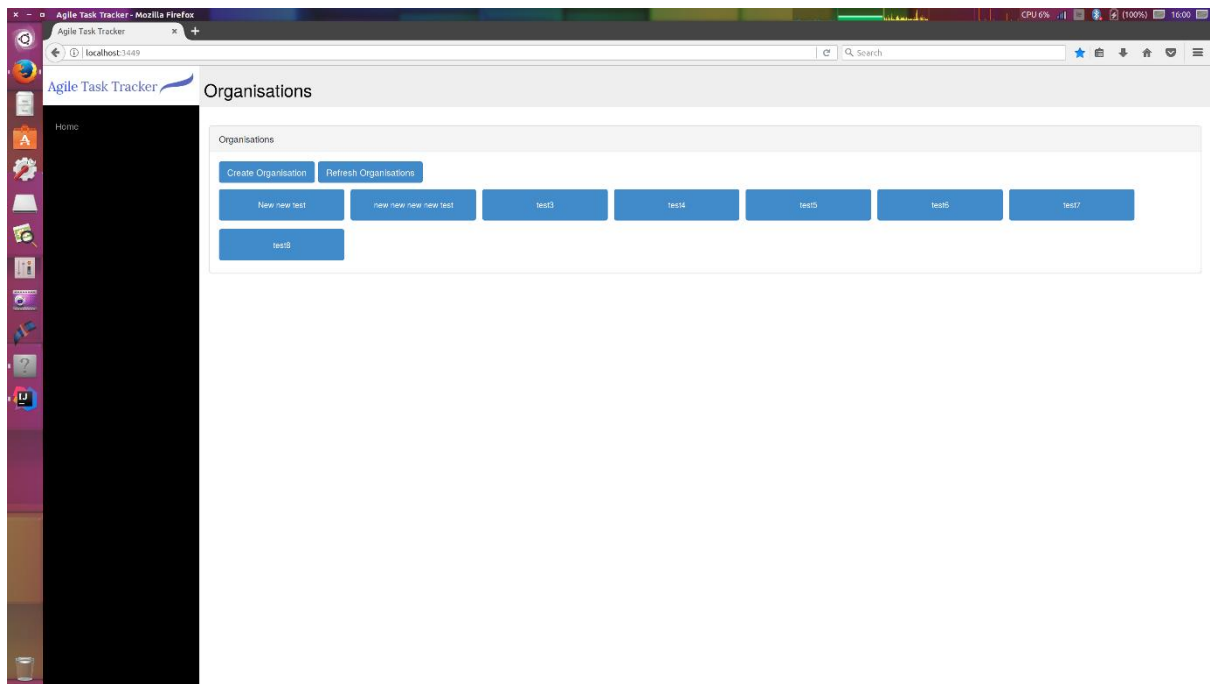
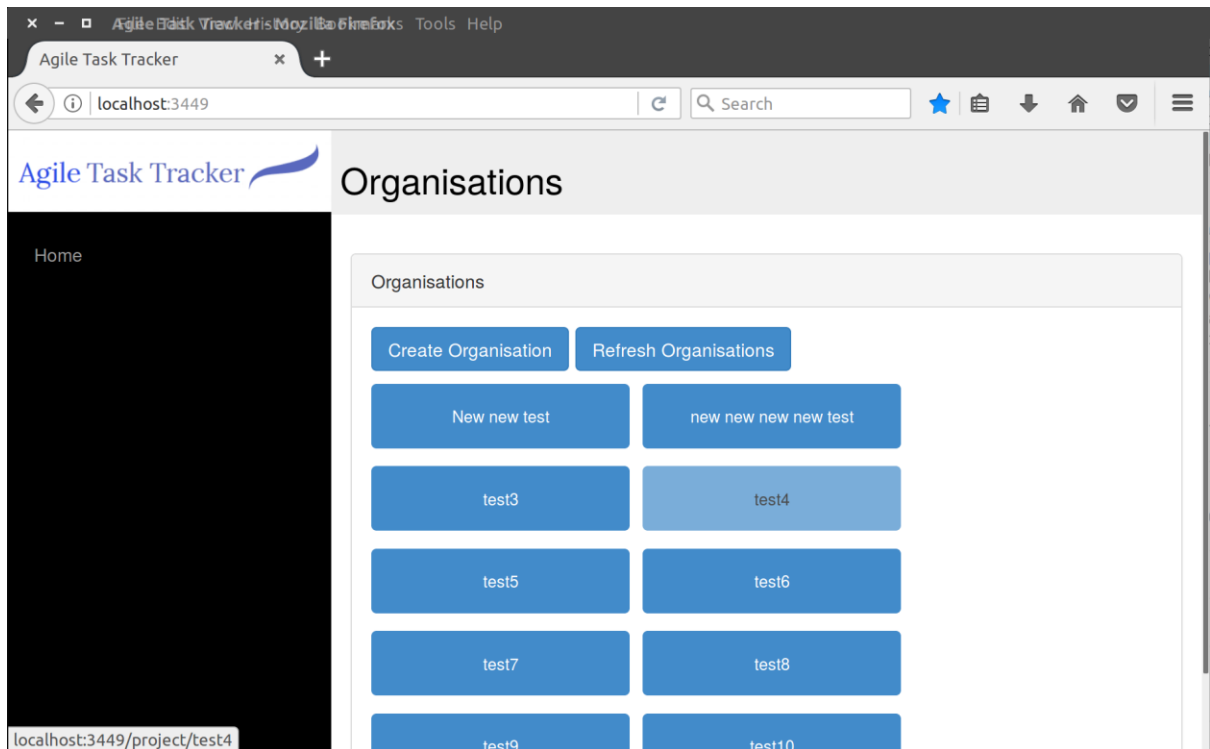


Image 9



		Projects Page		
#010	When making a project, the user doesn't enter either a project id or project name	Error alert window to enter required fields	As intended	
	When making a project, the user enters a project id with a whitespace in it	Error alert window to remove whitespace	As intended	
#011	When creating a project, the user enters a non-date string	date accepted	Need date validation	
#012	When creating a project, the user enters a non-number string into the estimated man hours field	Status 400 "Bad request"	Require warning window to alert user to proper data type	
#013	When 2 different organisations with two different organisation IDs and names exist on the database and both make a project with the same project id and project name	2nd org takes project, removes project from org1 project page	UUID required for project/org/sprint/task id generation	
#014	When 2 different organisations with two different organisation IDs and names exist on the database and both make a project with the same project id different project names	Same as #013. Name overwritten by 2nd project	Same as #013	
#015	When 2 different organisations with two different organisation IDs and names exist on the database and both make a project with different project id and the same project names	Each org and project exist independently and are successfully retrieved	Working as intended	
#016	Enough Projects are made to not fit on a single row	Projects wrap around to fit on multiple rows	Working as intended	
#017	Enough Projects are made to not fit on a single screen	Window becomes scrollable	Working as intended	

		Backlog Page		
#018	Only tasks (if any) associated with that project should be loaded	All backlog tasks for all projects are loaded	We need to implement the same check that we already have for active sprints. In current sprints, we filter the results to only active sprints that belong to that project-id (which there should only be one of). We need to apply that same filter to backlog	
#019	When creating a task, the user doesn't enter a required field, i.e. task id, task title, created by, estimated time	For every field an alert is shown asking to fill out required fields as marked	Need to stop modal closing on error	
#020	When creating a task, the user puts a whitespace in the task-id	Alert shown "Please remove whitespace"	Need to change alert string to "ID's must be one word and not contains spaces. Will be solved by ID Generation	
#021	When creating a task, the user enters a non-date string into the date field	Accepts non-date string.	Need date validation	
#022	When creating a task, the user uses the same task id as another task within the same project	Accepts. Overwrites Previous task	Will be solved by ID Generation	
#023	When creating a task, the user uses the same task id as a task in a different project	Task removed from previous Project. Now attached to 2nd project	Will be solved by ID Generation	
#024	When creating a task, the user enters a non-number string into the estimated time field	Status 400 bad request	User alert needs to be includes, check for non-numerical value	
#025	When creating a sprint, the user doesn't enter in either a sprint id or sprint name	Alert window Shown asking to fill out required info	Working as Intended	
#026	When creating a sprint, the user puts a whitespace into the sprint id	Alert window shown asking to remove whitespace	Will be solved by ID Generation	
#027	When the user is creating a sprint, they enter in a non-date string into the start date and/or end date fields	String accepted	need date validation	
#028	User attempts to make a sprint with no tasks assigned	Accepted	This is valid.	

#029	While there is already a sprint active, the user attempts to make a new sprint without ending the old one	New sprint is created, both sprints are now active. User must hit end sprint once to get task to reappear	The saving of a new sprint should ask for confirmation to close a previous sprint	
#030	The user attempts to add a task to a sprint without inputting the same sprint information	Adds new task to same sprint	As intended. Need to auto fill current sprint info in form for user to see.	
#031	The user places a task from the backlog column into the sprint creation column. Then they move that task back into the backlog column, then they create a sprint	Task not added to new sprint	As intended.	
#032	The user places a task from the backlog column into the sprint creation column. Then they delete the task, then they create a sprint	Task no longer assigned to sprint	As intended.	

		Current Sprint Page		
#033	For a newly created sprint, all tasks should be in the to do column.	All tasks rendered accordingly	As intended.	
#034	For a sprint that is in progress, tasks should be rendered in their respective columns based off their task-state in the database.	All tasks rendered accordingly	As intended.	

		Side Bar		
#035	On the homepage, only a link to the Home page should be shown	Only Home link is shown	As intended. Image #035	
#036	On the projects page, only links for Home and projects should be shown. The link to projects only links to projects for that organisation	Only Home and Projects links are shown	As intended. Image #036	
#037	On the backlog and current sprints pages' links for Home, Project, Backlog, and Current Sprint should be shown. The links for Backlog and Current Sprint are only for that project	All stated links are shown. Backlog and Current sprint links to the correct backlog and sprint for the project	As intended. Image #037	
#038	On either the home page or project page the user refreshes the browser and tries to use the sidebar links that are available for those pages	All sidebar links available to those pages' work (i.e. the Home and Projects links	As intended	
#039	On either the backlog page or current sprint page the user refreshes and tries to use the sidebar links that are available for those pages	Only the Home and Project links work. The Backlog and Current Sprints links do not	This is due to the fact links to the correct Backlog and Current Sprints pages are generated by appending the project-id which is store in the session to the links. On a refresh the project-id stored in the current session is gone, thus breaking the links. A solution would be to query the database for the relevant project-id if the project-id in the current session is null from a refresh.	

Image 35

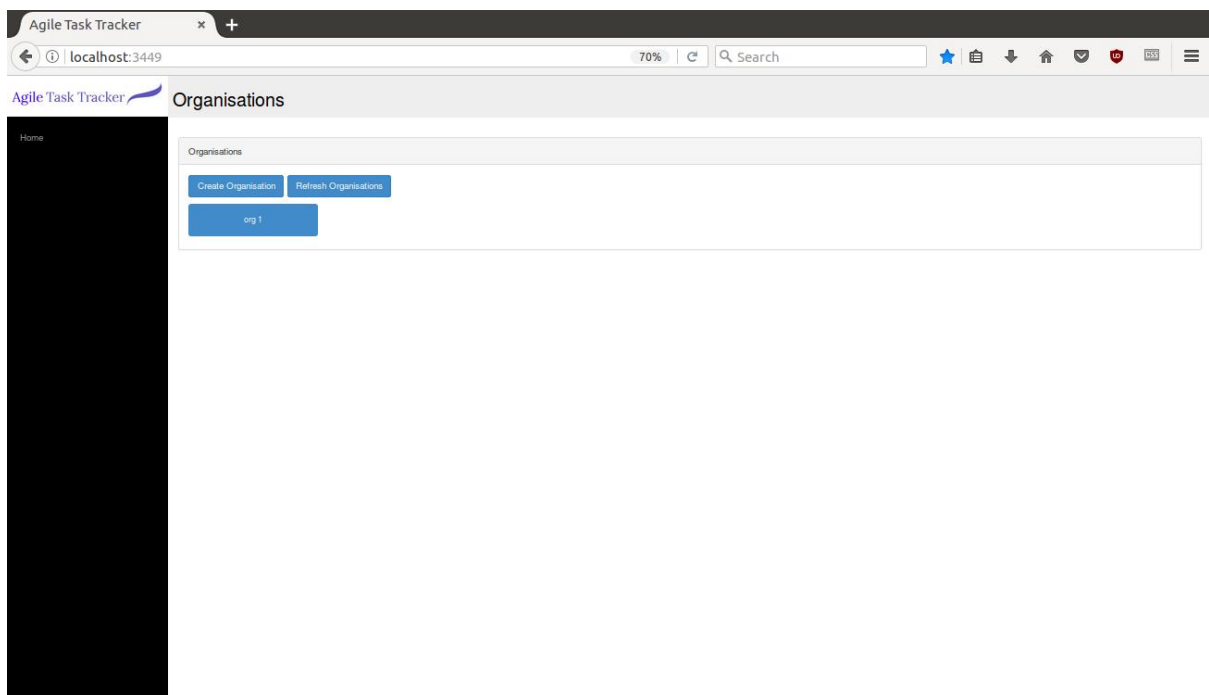


Image 36

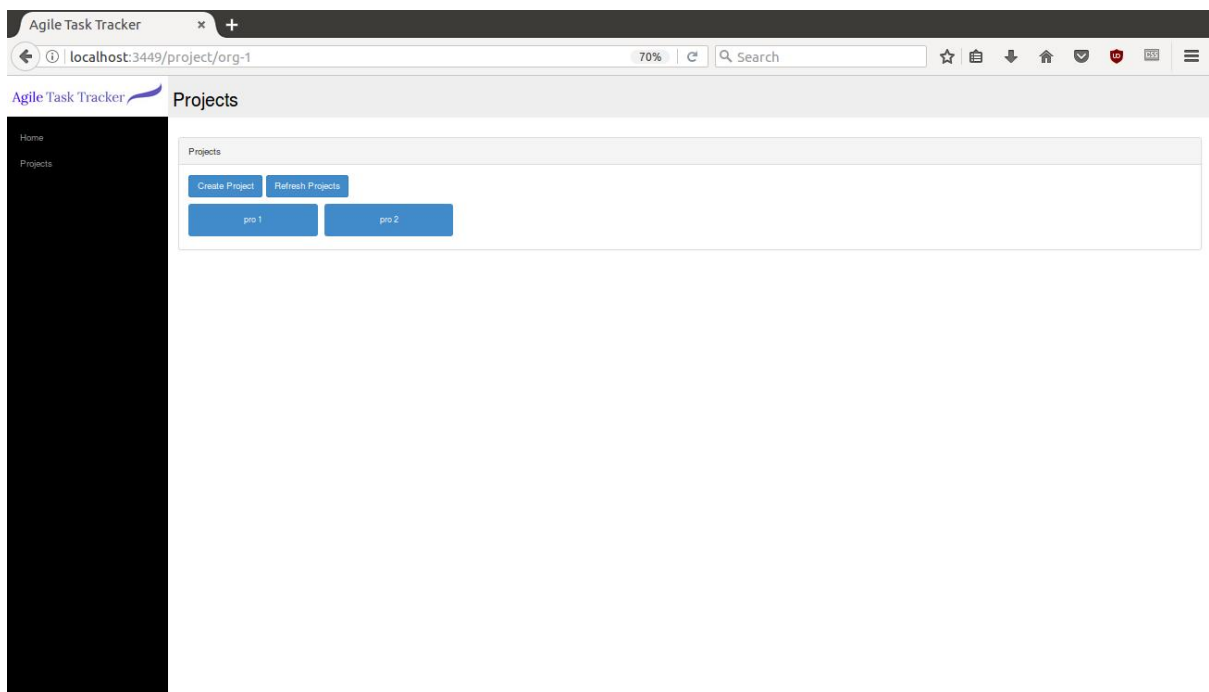
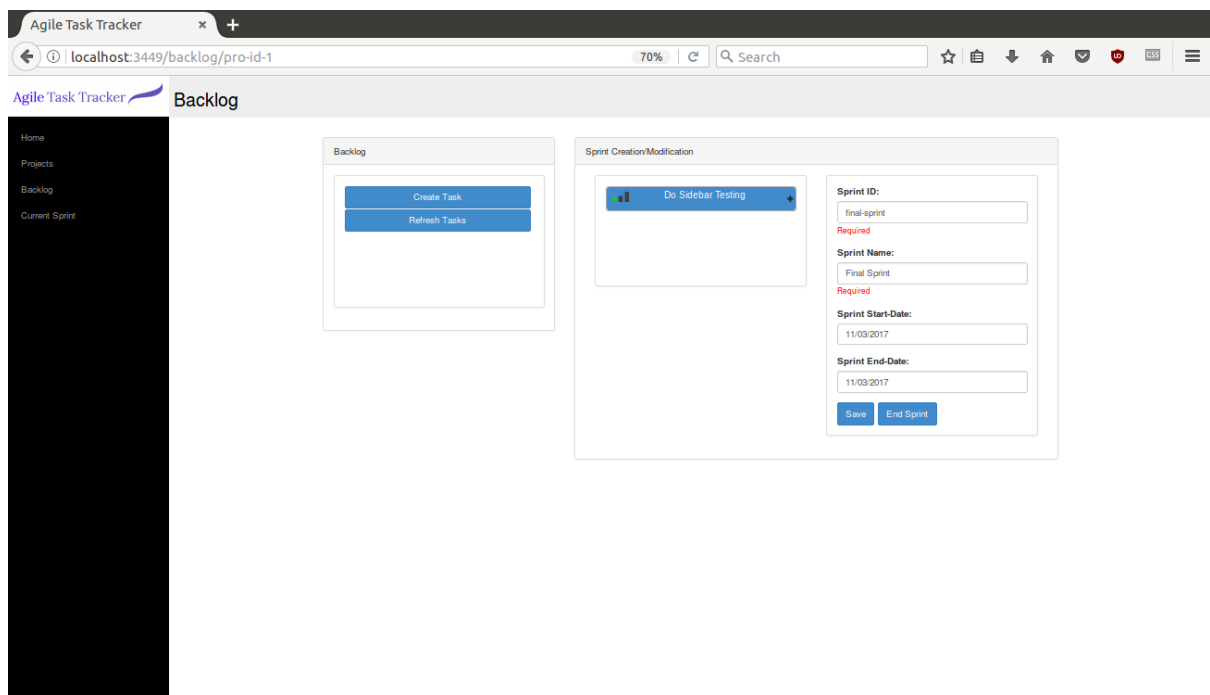


Image 37



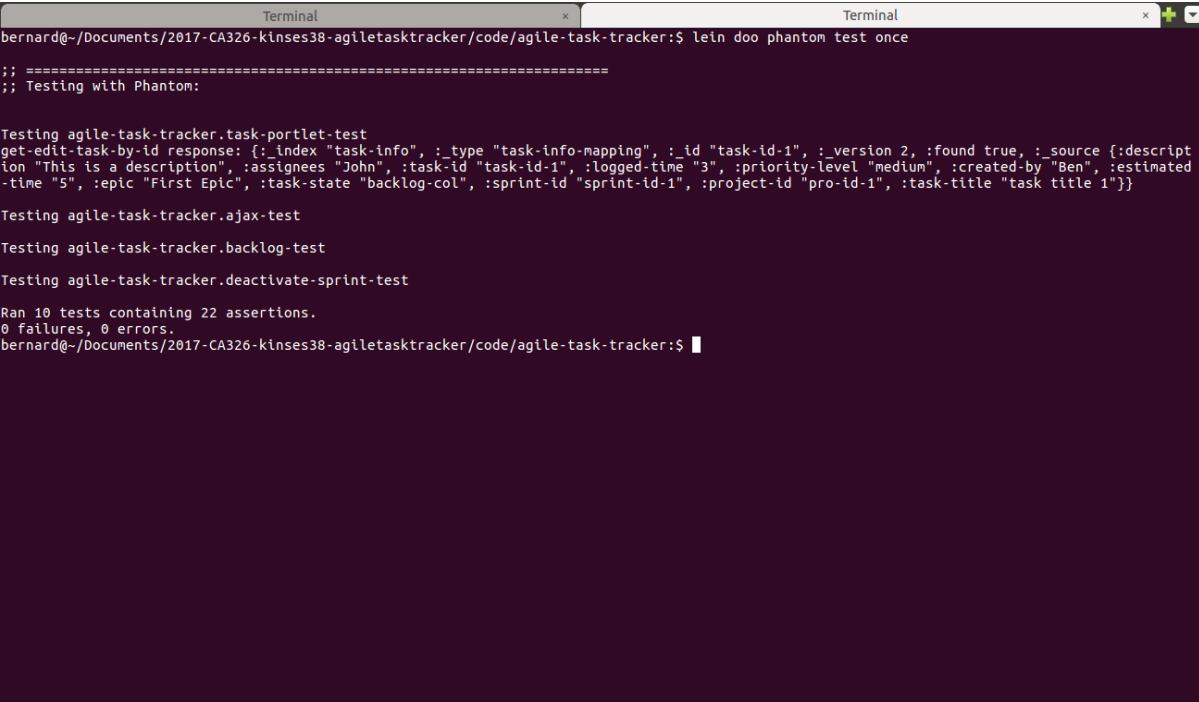
		Task Portlet		
#040	When the user is editing a task portlet, the user edits a piece of information and hits save	The information is edited correctly and saved	As intended.	
#041	When a user is editing a task portlet, the user removes a required field and hits save	The task is saved without the required field. Note that the task id cannot be edited/ removed by design	The required fields check must be re-called for the editing of a task	
#042	When the user is editing a task portlet, the user edits a piece of information and hits close without saving	The task is not edited	As intended.	
#043	The user hits the delete button on the task portlet from both the backlog page and the current sprint page	The task is removed correctly from the database and does not appear in either the backlog or the current sprint	As intended.	

Unit Tests

We have written a number of tests written that can be run through leiningen, our build automation and dependency management tool. The tests can be run with the following command

```
lein doo phantom test once
```

Within our code project structure we have a test folder which contains cljs tests for our project. When the above command is entered, leiningen looks within this folder for the file "doo_runner.cljs". This file define which testing files are to be run.

A terminal window with a dark purple background. The prompt is 'bernard@~/Documents/2017-CA326-kinses38-agiletasktracker/code/agile-task-tracker:'. The command 'lein doo phantom test once' has been executed. The output shows a series of test runs for 'agile-task-tracker.task-portlet-test', 'agile-task-tracker.ajax-test', 'agile-task-tracker.backlog-test', and 'agile-task-tracker.deactivate-sprint-test'. A detailed JSON response is shown for the first test. The final summary states 'Ran 10 tests containing 22 assertions. 0 failures, 0 errors.'

```
bernard@~/Documents/2017-CA326-kinses38-agiletasktracker/code/agile-task-tracker:$ lein doo phantom test once
;; =====
;; Testing with Phantom:

Testing agile-task-tracker.task-portlet-test
get-edit-task-by-id response: {:index "task-info", :type "task-info-mapping", :_id "task-id-1", :version 2, :found true, :_source {:description "This is a description", :assignees "John", :task-id "task-id-1", :logged-time "3", :priority-level "medium", :created-by "Ben", :estimated-time "5", :epic "First Epic", :task-state "backlog-col", :sprint-id "sprint-id-1", :project-id "pro-id-1", :task-title "task title 1"}}

Testing agile-task-tracker.ajax-test
Testing agile-task-tracker.backlog-test
Testing agile-task-tracker.deactivate-sprint-test

Ran 10 tests containing 22 assertions.
0 failures, 0 errors.
bernard@~/Documents/2017-CA326-kinses38-agiletasktracker/code/agile-task-tracker:$
```

Here we have the output from running our tests. You can see that the tests written for task-portlet.cljs, ajax.cljs, backlog.cljs and deactivate-sprint.cljs, have all completed successfully.


```
Terminal
bernard@~/Documents/2017-CA326-kinses38-agiletasktracker/code/agile-task-tracker: lein doo phantom test once

;; =====
;; Testing with Phantom:

Testing agile-task-tracker.task-portlet-test
get-edit-task-by-id response: {:index "task-info", :type "task-info-mapping", :id "task-id-1", :version 2, :found true, :_source {:description "This is a description", :assignees "John", :task-id "task-id-1", :logged-time "3", :priority-level "medium", :created-by "Ben", :estimated-time "5", :epic "First Epic", :task-state "backlog-col", :sprint-id "sprint-id-1", :project-id "pro-id-1", :task-title "task title 1"}}

Testing agile-task-tracker.ajax-test

Testing agile-task-tracker.backlog-test

FAIL in (test-validate-task) (: )
Test if required user inputted fields are present... ...with all required fields present
expected: (= false (backlog/validate-task valid-task))
actual: (not (= false true))

Testing agile-task-tracker.deactivate-sprint-test

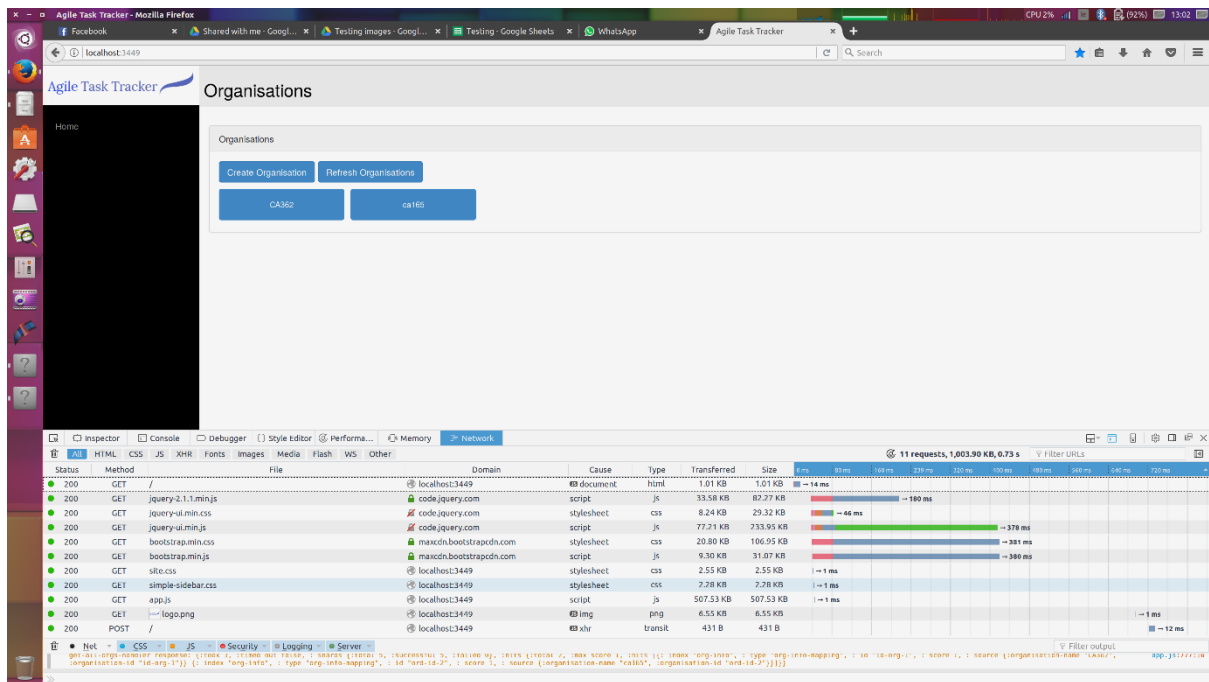
Ran 10 tests containing 22 assertions.
1 failures, 0 errors.
Subprocess failed
bernard@~/Documents/2017-CA326-kinses38-agiletasktracker/code/agile-task-tracker: $
```

And here you can see the sample output for when I cause one of the tests to fail, which alerts you to how many and which tests failed, and what the expected and actual results of the test were.

Load times

Image Ref	Optimisations/Load times	
Devload	Dev figwheel server, non-cached load	0.73 seconds
Uberload	Uberjar production version, non-cached load, css/bootstrap/jQuery online	0.49 seconds
UberLocalLoad	Uberjar production, bootstrap/jQuery/css saved locally	0.43 seconds

DevLoad



Uberload

Agile Task Tracker - Mozilla Firefox

Agile Task Tracker

localhost:3000

Organisations

Create Organisation Refresh Organisations

CA362 ca166

11 requests, 1,603.26 KB, 6,449 s

Status	Method	File	Domain	Cache	Type	Transferred	Size	Time
200	GET	/	localhost:3000	document	html	1.01 KB	1.01 KB	12 ms
200	GET	jquery-2.1.1.min.js	code.jquery.com	script	js	33.58 KB	62.27 KB	42 ms
200	GET	jquery-ui.min.css	code.jquery.com	stylesheet	css	8.24 KB	29.32 KB	35 ms
200	GET	jquery-ui.min.js	code.jquery.com	script	js	77.21 KB	233.95 KB	73 ms
200	GET	bootstrap.min.css	maxcdn.bootstrapcdn.com	stylesheet	css	20.80 KB	106.95 KB	49 ms
200	GET	bootstrap.min.js	maxcdn.bootstrapcdn.com	script	js	9.30 KB	31.07 KB	48 ms
200	GET	site.min.css	localhost:3000	stylesheet	css	1.91 KB	1.91 KB	2 ms
200	GET	simple-sidebar.css	localhost:3000	stylesheet	css	2.56 KB	2.56 KB	2 ms
200	GET	app.js	localhost:3000	script	js	507.53 KB	507.53 KB	10 ms
200	GET	logo.png	localhost:3000	img	png	6.55 KB	6.55 KB	7 ms
200	POST	/	localhost:3000	xhr	transit	431 B	431 B	7 ms

UberLocalLoad

Agile Task Tracker - Google Chrome

Agile Task Tracker

localhost:3000

Organisations

Create Organisation Refresh Organisations

CA362 ca166

11 requests, 1,603.26 KB, 6,449 s

Name	Status	Type	Size	Time	Waterfall
localhost	200	document	1.01 KB	12 ms	
jquery-2.1.1.min.js	200	script	62.27 KB	42 ms	
bootstrap.min.css	200	stylesheet	106.95 KB	49 ms	
bootstrap.min.js	200	script	31.07 KB	48 ms	
app.js	200	script	507.53 KB	10 ms	
simple-sidebar.css	200	stylesheet	2.56 KB	2 ms	
logo.png	200	img	6.55 KB	7 ms	
localhost	200	xhr	431 B	7 ms	

User Testing

		User Testing	
Task	Expected time	Average (Rounded up)	Comments
Create new org	10 seconds	11 seconds	Entered ID with space. Pressed enter to submit
Navigate to project page, Create new project	20 seconds	19 seconds	Entered dates by typing
Navigate to backlog, create new task. Task specific Info given	30>40 seconds.	45 seconds	Created task without estimating time. Required field noted.
Add tasks to sprint creation, start new sprint	40 seconds	38 seconds	Started sprint before adding all tasks.
Navigate to Current Sprint, move tasks to in progress, edit task to assign person to task	20 seconds	21 seconds	Mistype on assignee.
Update logged time on singular task, add to completed. Then end sprint	50 seconds > 1 min	49 seconds	Success without comment