

Contents

What is Agile based development?	2
The Home page	3
Project page.....	4
Product Backlog.....	5
Current Sprint Page	8

What is Agile based development?

And why should you care? Agile software development is a set of principles for software development in which the requirements and solutions are constantly evolving throughout all stages of the project. It's a powerful tool when used correctly and places emphasis on delivering working software over heavily regulated documentation and micromanaging.

With that in mind, this web app was designed to help plan an agile based project and aid students implement the methodologies that they will be learning throughout their degree, and put these into practice for their third and fourth year projects.

So, let's start with some jargon busting for some of the features of this app.

Product backlog:

This is the list of tasks that are to be completed to bring about the next iteration or prototype of the product to be made.

Epic:

A large task that can be further broken up into subtasks. They are often compared to stories, which details the requirements of a project. Example, "Shopping cart page" can be broken up into subtasks like, "create ui" "add/remove items from cart" and so on so forth.

Task:

A task is the smallest unit of a sprint; this is an objective belonging to the product backlog that must be completed to advance project development. Information concerning a task includes the creator of the task, the people assigned to it, the estimation of how long it will take, the current logged hours on it, and then the priority of the task.

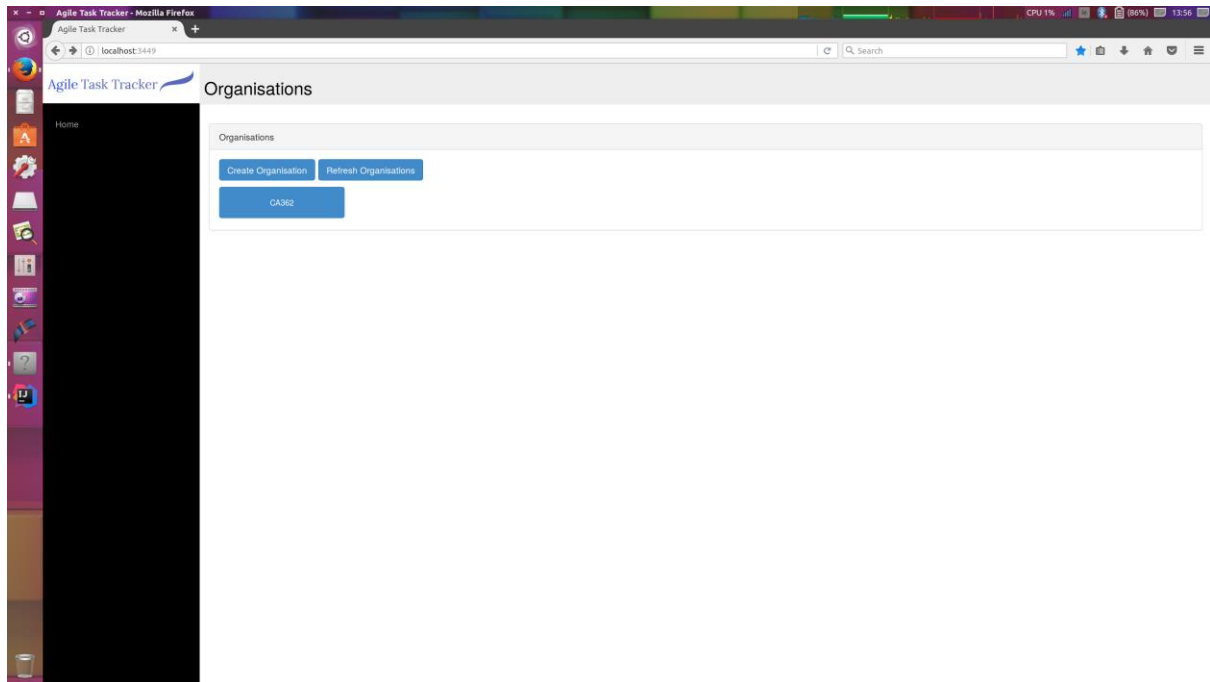
Sprint:

A sprint can be thought of as a unit of time decided by the team, whether a week, two weeks or a month. Tasks are assigned to a particular sprint from the product backlog and the team endeavours to complete those tasks by the end of the sprint, otherwise it's carried forward on to a new sprint. The best way of thinking of a sprint is a large board with 3 columns, "To be done", "In Progress" and "Completed", tasks can be thought of as post-it notes with the tasks relevant details.

Team members will assign themselves to tasks and take ownership of them, moving them from the "To be done" column to the "In Progress" and then unsurprisingly to the "Completed" one when they are finished. This allows all members of the project to see the current progress of a sprint and know where they stand at any given time. Generally, a sprint will be comprised of tasks chosen from the backlog from the "Sprint master" but for this "shared workspace" app anyone can assign tasks from the backlog.

So, with all that out of the way, let's move on to how to use Agile Task Tracker.

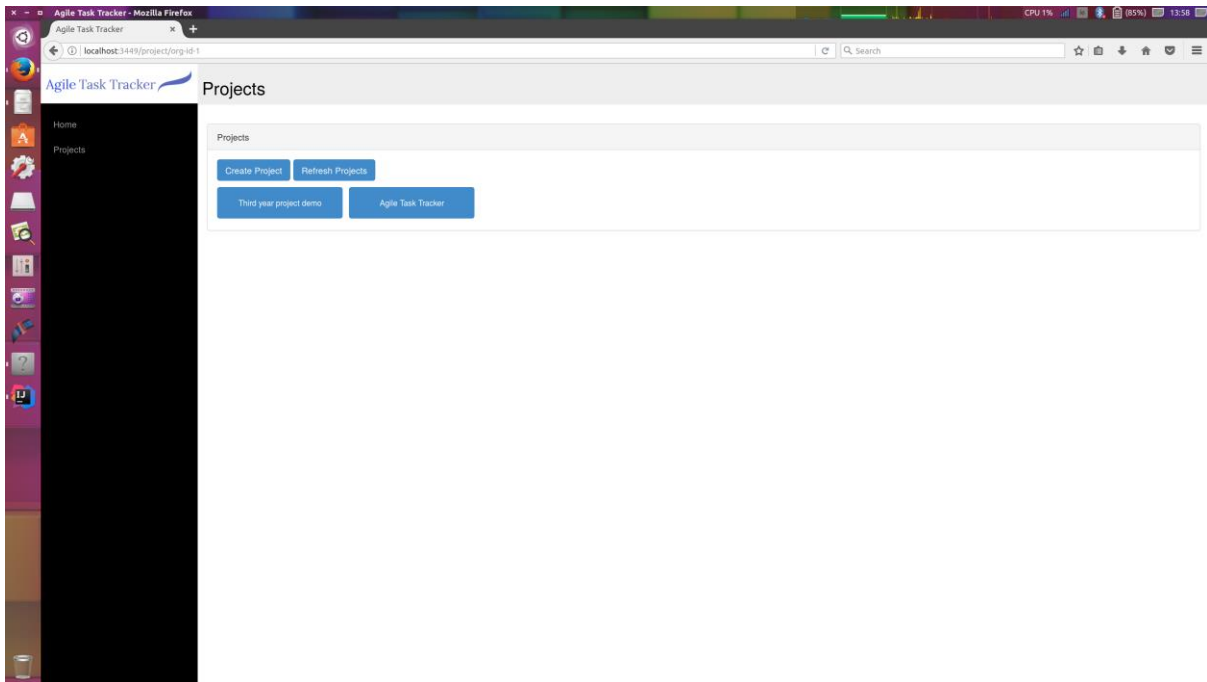
The Home page



When you first land on the web app, this is the first page you'll find, here you can manage your "Organisations" which can be viewed as course modules, which in turn will contain your projects/assignments. To add a new organisation, simply click on create organisation and you will be prompted to enter an ID and name for it. This will generate a new button named after your organisation. Refresh organisations allows you to query for any organisations that were added by people in your work group.

Clicking on these organisation buttons will bring you to the project page where you can manage your current projects and add new ones.

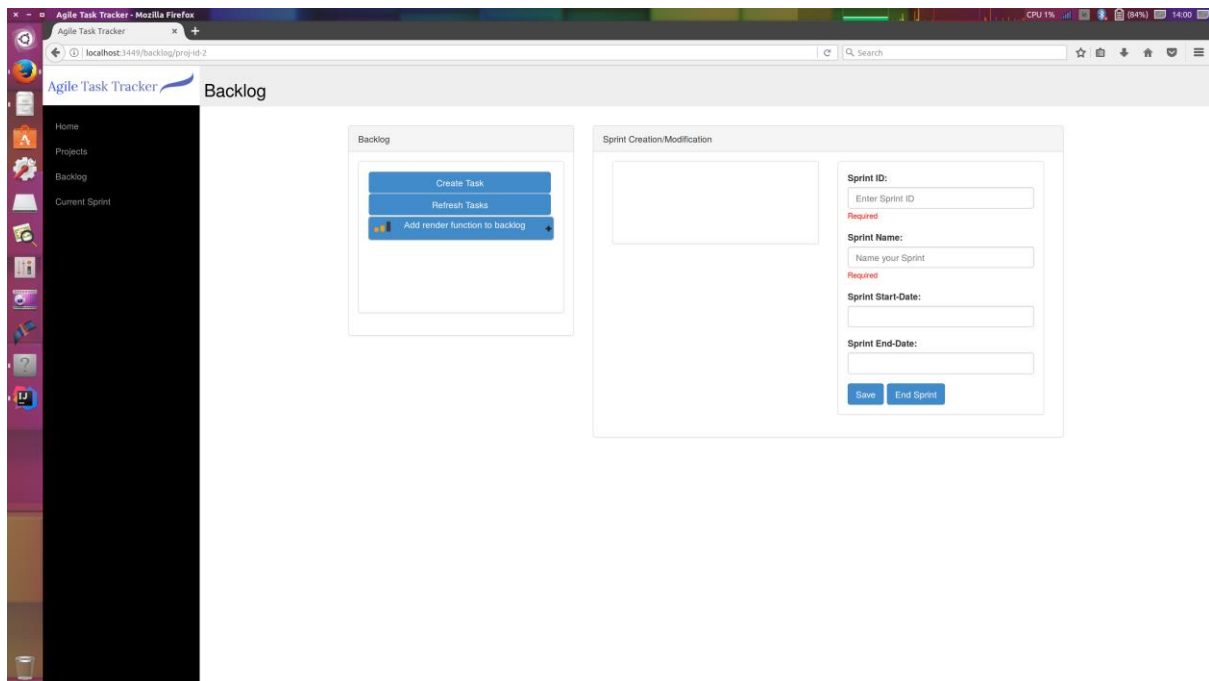
Project page



From the organisation page, you'll end up on the projects page, detailing any projects associated with the organisation/module. Same as organisation, click create project and you'll be prompted to enter the project-id, name, the number of man-hours that you and your team have available to dedicate to the project from start to end and finally the start and end date of the project. In future releases you will be able to track your progress with estimated man hours' vs actual hours per sprint.

Clicking the project button will then bring you to the project's product backlog where we can start creating tasks.

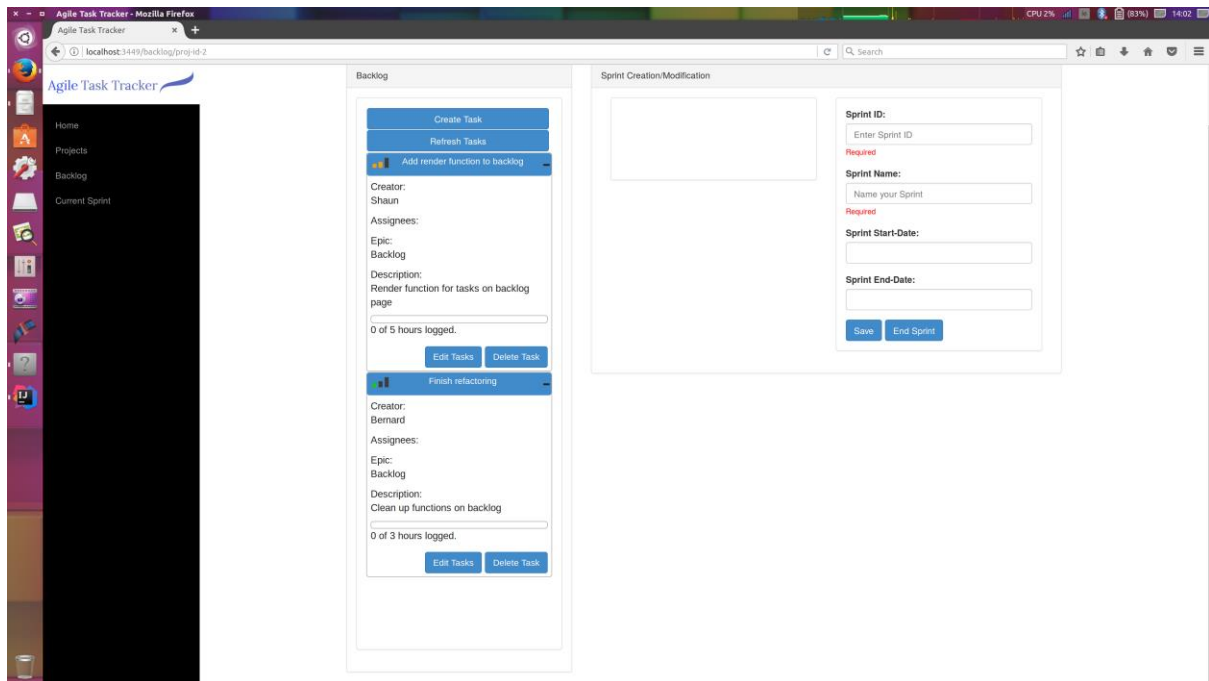
Product Backlog



This is where things start to get a little interesting. On the left side, you have your product backlog, which allows you to create new tasks that are added to the backlog itself, and on the right side the sprint-creation column, where you can drag your newly created tasks and assign them to a new sprint.

So, let's start by adding a new task to our backlog. Click "Create Task" and give the task an id and a name. A brief description of the task is helpful but not necessary, mark yourself as the creator. You don't have to give an assignee right now, that can be specified when a task is added to a sprint. You do however, must give an estimated time to complete the task, in Agile this is a practice and a good habit to get into. Don't worry if your estimate is off, it can be updated afterward.

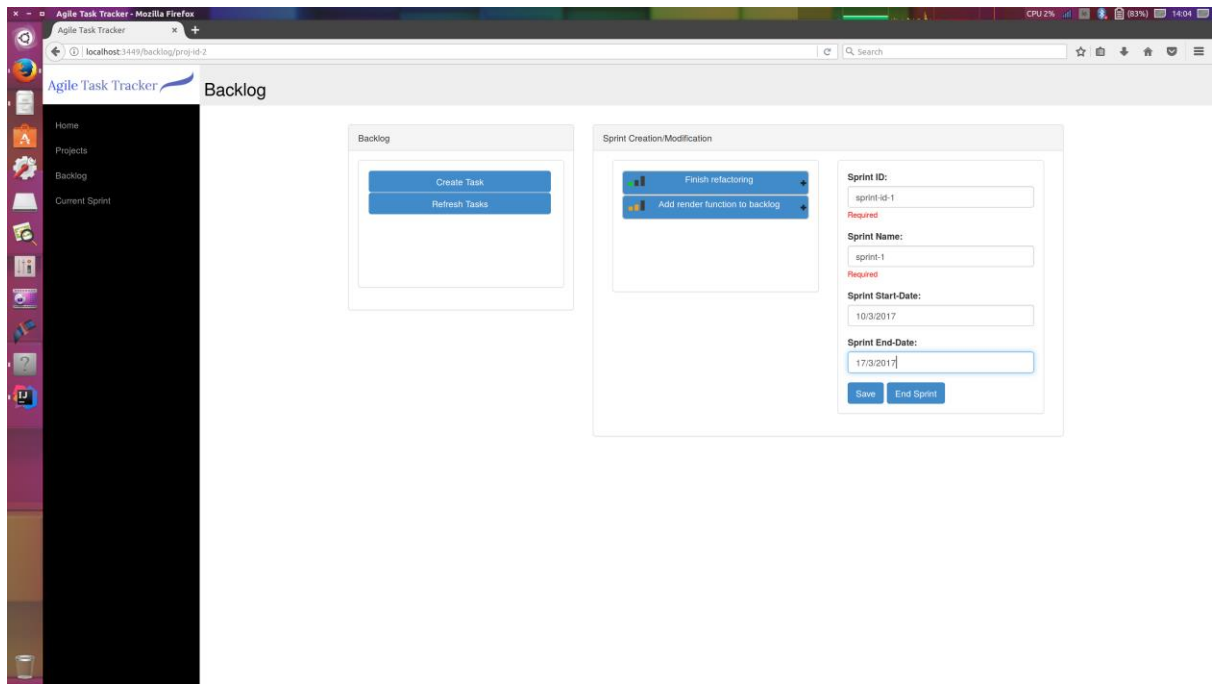
By default, the task will be set to a low priority but you can select medium or high, and this will be flagged on the task so team members can see what tasks are more important than others at a glance. If a task is part of an epic you can specify it also, but is not required. Once you are happy with the task info, you can hit save. And you should have your very first task.



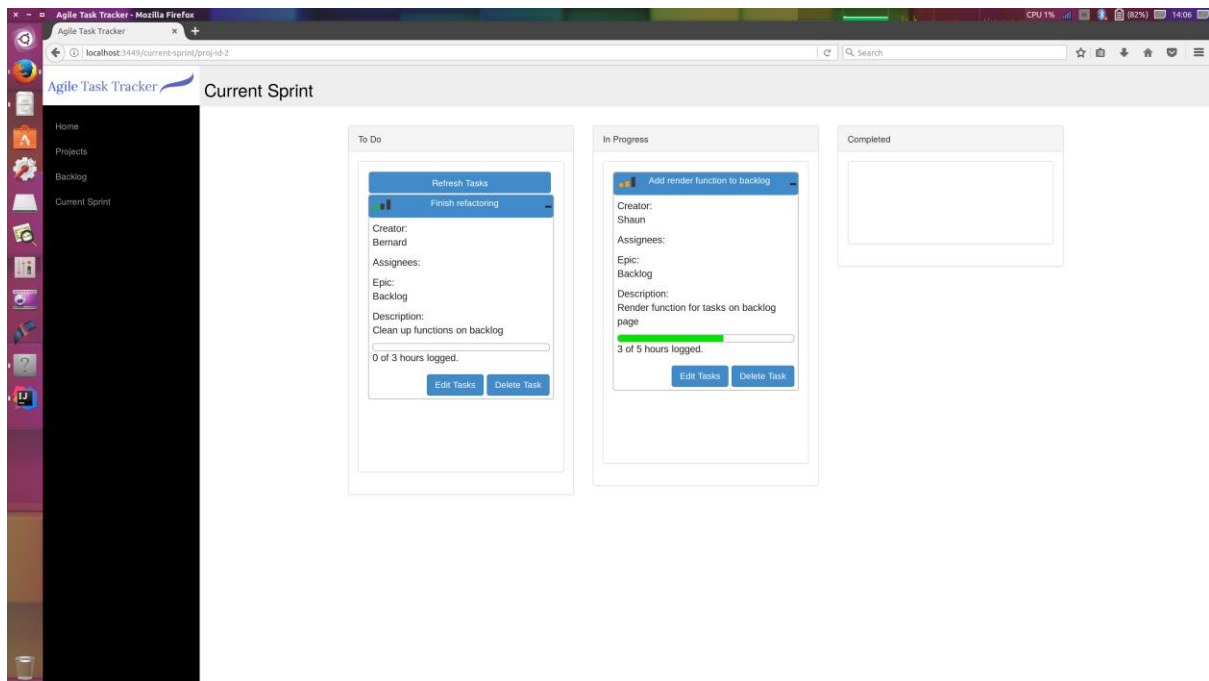
To review any of the info within the task just click the plus symbol to maximise the tasklet. You also have the option to edit any of the info, or delete the task.

Now that you've made a few tasks, it's time to start a sprint, so click and drag the header of any tasks you want assigned to the sprint to the sprint column. Don't worry if you drag the tasks over then stop there. The next time you come back they will still be assigned to the sprint column, ready to add to a sprint. Next you just enter a sprint ID, name it, and specify the start and end dates optionally. Just click save and now your tasks are assigned.

If you wish to add more tasks to a current sprint you can just come back and add more tasks to the sprint column and just hit save, no need to enter the details again, and they will be added to the current sprint along with any of the previous tasks

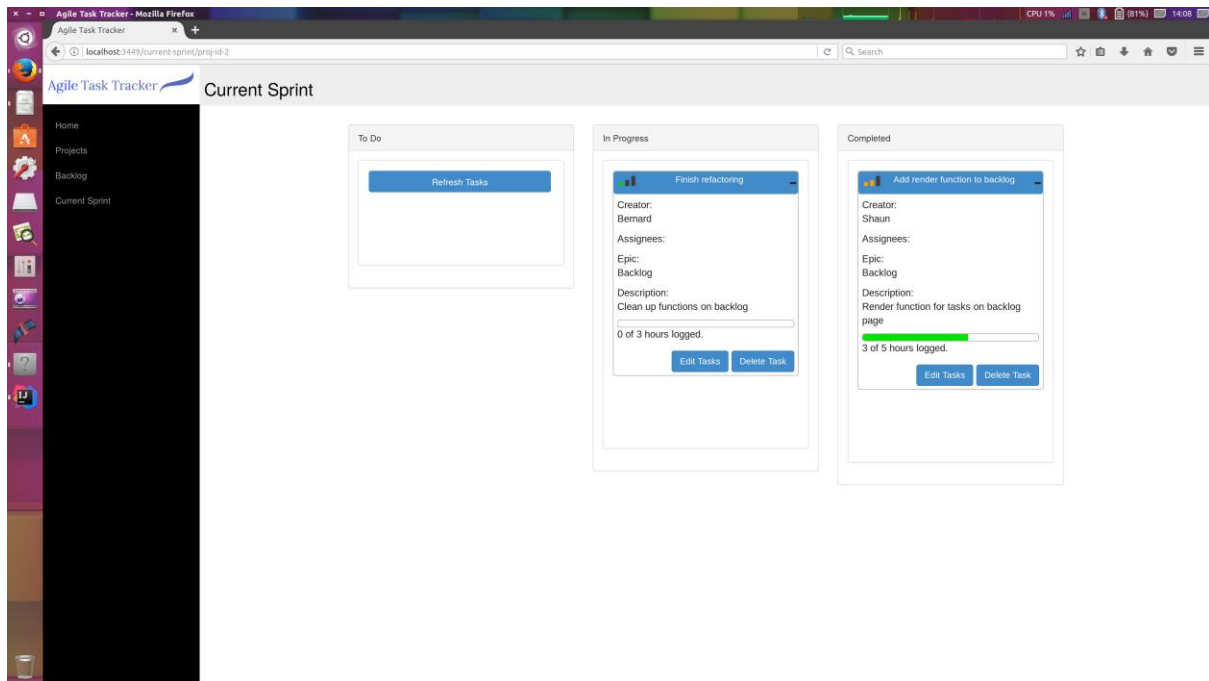


Current Sprint Page



The sprint page is basically a glorified notice board. You will have the three aforementioned columns, “To Do”, “In Progress” and “Completed”. Any tasks you assigned to your sprint should now be shown in the “To do”. Here is where you start to take responsibility for tasks. Choose a task, expand it out, and hit edit, fill in the name of the assignee, and save it. Now you can move it to “In Progress” and it will be updated on the database and anyone viewing the sprint can see you are currently working on that.

It's good practice to keep a log of hours spent working on a task, so you can add hours to the task by editing it. And if you don't complete by the estimated time, give a new estimate. This is all a good practice in Agile development. Once you have completed a task, move it to the “Completed” column to flag it as done on the database.



Another good practice is to keep to a sprint's timeframe. When the deadline has passed, leave the tasks in their current columns and just navigate back to the backlog page. On the sprint creation column, click "End sprint". This will deactivate the current sprint and will pull any uncompleted tasks back into the sprint column, so you don't have to remake them, or pull them from your backlog again. Now when you start a new sprint, you can assign new tasks along with any uncompleted tasks from the previous one.

