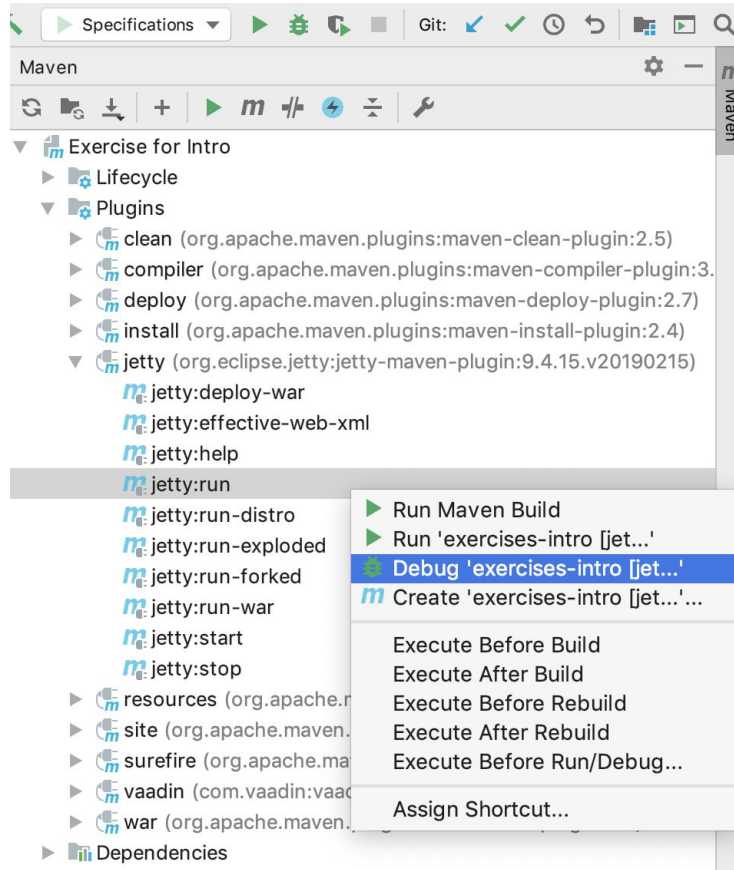
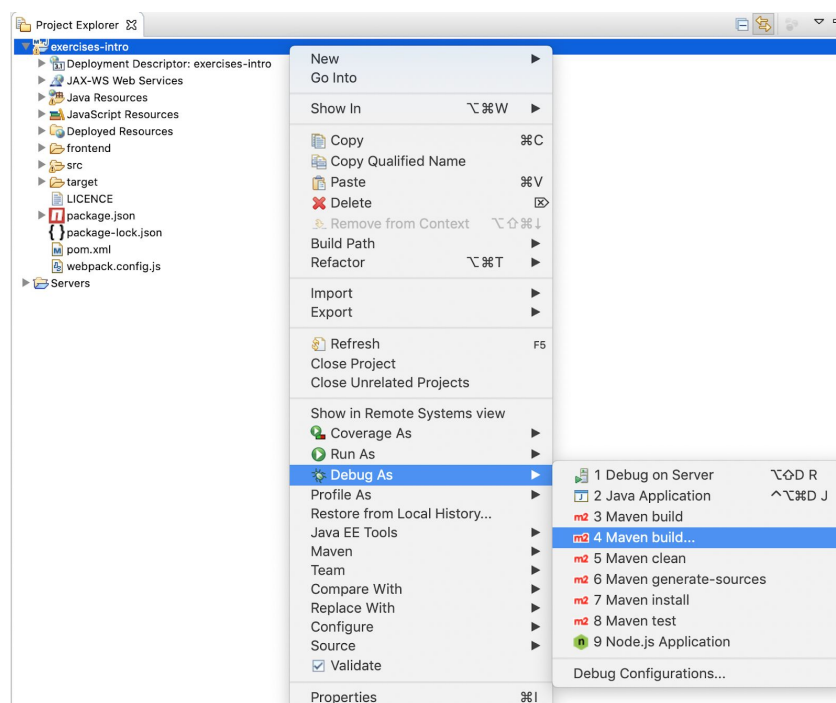


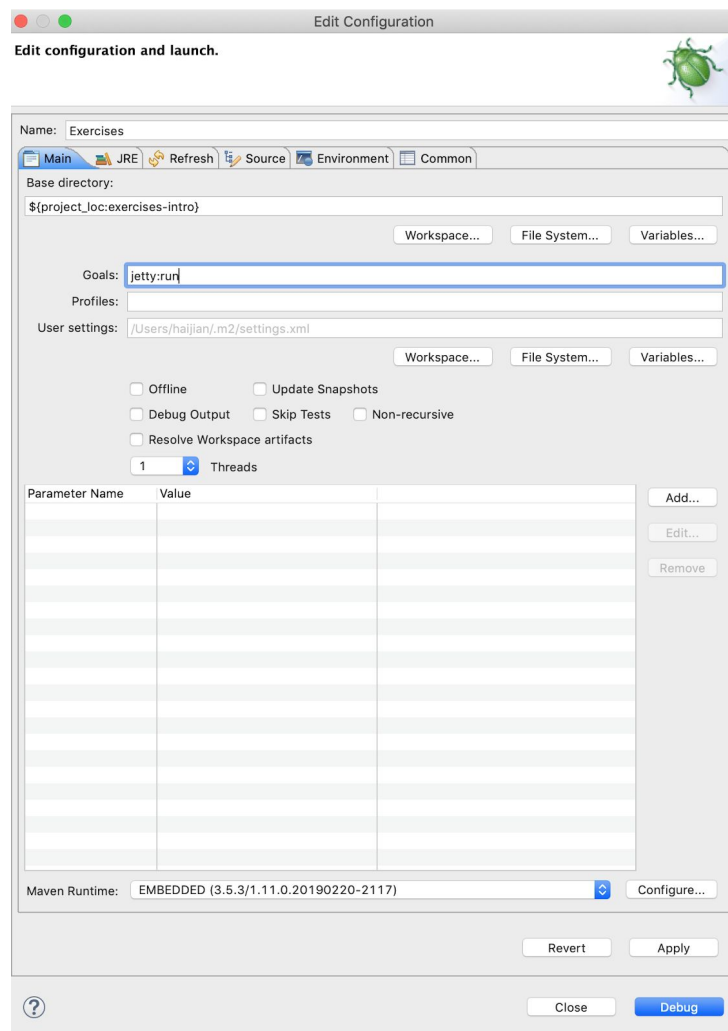
Instructions

1. Import the Maven project to your Favourite IDE.
2. Run the Maven goal jetty:run
 - a. If you have command line Maven installed you can run mvn jetty:run in terminal OR
 - b. Debug or run the application in IntelliJ



- c. Debug or run the application in Eclipse





3. Go to localhost:8080

Exercise 1: Kanban Board

In this exercise, we are going to practice the usage of drag and drop functionality in Vaadin. Your task is to create a Kanban board. The application should consist of three horizontally placed panels, TODO, Ongoing and Done. The panels can contain tasks. The users should be able to move a task from one panel to another by dragging the task and releasing it over the new panel.



Things you'll need to do

1. Add a `DragSourceExtension` to each `TaskComponent`
2. Add a `DropTargetExtension` to each `DropTargetPanel`
3. Add a `DropListener` to each `DropTargetExtension` where you move the dragged `Task` to the new panel.

Bonus task: Implement a server-side check that checks that no tasks are dragged directly from TODO on Done. All tasks should first go through Ongoing before being moved to Done. This can be done e.g. in the `DropHandler`.

Exercise 2: Drag and drop

Your task here is to implement drag and drop in a Grid that already exists. The Grid's rows are already set to be draggable and the relevant drag and drop listeners have been created for you already, all you need to do is to implement the listeners.

Things you'll need to do:

1. In the drag start listener, check the dragged item from the event object and store a reference to it in the `draggedItem` member variable. Also change the Grid's drop mode to `BETWEEN`.
2. In the drop listener, get the drop target row's bean from the drop event object. If it's a different bean than the `draggedItem`,
 - a. Remove the `draggedItem` from the Grid's backing `gridItems` collection
 - b. Find the index of the drop target bean in `gridItems`
 - c. Add `draggedItem` into `gridItems` at the index you got in the previous step (you can adjust the index based on the drop event's drop location for extra fine tuning)
 - d. Refresh the Grid's `DataProvider`
3. In the drag end listener, reset the `draggedItem` and the Grid's drop mode