Possible enhancements

From the functional testing standpoint

I feel the need for **automating the regression tests** with all the major end-to-end scenarios of this app.

The **regression suite can be linked to a Jenkins job** which will run each time a developer pushes changes. This will help in Continuous integration and development.

Other Automated tools that can be used:

As the app is developed in Ruby on Rails and Angular, we could use **RSpec with capybara or Protractor using javascript.**

If you are using Rails, put Capybara specs in spec/features and Capybara specs in a different directory, then tag the example groups with :type => :feature.

Protractor is an end-to-end test framework for Angular and AngularJS applications. Protractor needs two files to run, a spec file and a configuration file.

For non-functional testing

The To-do App needs to go through some **performance and scale testing** Automating tools like **JMeter and LoadRunner** can be used for this.

Also, some web API testing should be done to check the data returned from **API endpoints**. API testing tools like **Postman or RunScope** could be used.

To maximize the value of testing,

I design a test coverage checklist and exploratory tests in addition to the acceptance criteria's Eg.

As a ToDo App user I should be able to create a task So I can manage my tasks

Test Coverage checklist

- The user should always see the 'My Tasks' link on the NavBar \circ Clicking this link will redirect the user to a page with all the created tasks so far-
- The user should see a message on the top part saying that list belongs to the logged user—Fail The displayed message is "John's ToDo List"
- The user should be able to enter a new task by hitting enter or clicking on the add task button. pass
- The user should not be able to add an empty task by clicking on "+" add symbol -fail
- The task should require at least three characters so the user can enter it. Fail able to add tasks with less than three characters

- The task can't have more than 250 characters. Fail able to add a task with 254 characters
- When I add a very long name for the task it shouldn't break the page fail text overflow issue
- Task with same name shouldn't exist Fail able to add tasks with same name
- When added, the task should be appended on the list of created tasks –fail when a new task is added it appears as the first task on the list of created tasks

Exploratory tests

Test in different browsers and OS, make use of selenium grid for parallel testing.