

Recipe Stacker

Executive Summary

Purpose

Imagine you want to find a recipe that uses only the ingredients that you choose, and doesn't use the ingredients you don't want. You sigh as you realize this is impossible to do with Google. You decide to try Allrecipes.com but unfortunately it also fails to find your food. Suddenly, you find Recipestacker and an hour later you are enjoying the best turkey ketchup meal combination you've ever eaten.

Recipe stacker is a search engine for recipes that uses the ingredients as the search criteria. You can specify ingredients you do or don't want, as well as fit the meal within diets, cuisines, and timeframes. Everyone eats so our goal is to help people eat better by finding foods that they like!

Recipe Stacker Design

- MVC Pattern was used to ensure the separation of duties between the code
- Active Record Design Pattern is a pattern that allows you to use function calls to update a database record rather than writing raw queries
- Our database design is a key differentiator against other recipe websites. You can see our diagrams from this on page 2
- We found our cohesion and complexity to be average but not excellent, the results are on page 3

Verification

- We have unit tests on the controllers to ensure functionality and robust error handling.
- Integration tests demonstrate functionality and robustness of testing and are combined with the user stories as documentation of the test
- Our search page and ingredient creation page have 100% test coverage utilizing 14 tests of 14 methods, and multiple end to end integration tests

Maintainability

- We added Gulp as a task runner to speed up development and provide functionality to compile sass, coffeescript, and run our javascript through JSLint (syntax tester)
- Jenkins provides continuous integration and automated deployment from within our Git Repo

Conclusion

Recipe Stacker was created to be a quick and easy way for a college student to look in their fridge, enter ingredients into the website, and find foods that they could create and enjoy. Recipe Stacker definitely accomplishes this and utilizes some of the cutting edge technologies available today to ensure maintainability, modern functionality, and a fun presentation. So the next time you aren't sure what to make, visit recipestacker.com and you will be surprised at how easy and fun finding a recipe you enjoy truly can be.