SmartMeal

3/13/23
SmartTeam
Eric Xie (Product Owner)
Edmond Poon
Dylan Burger (Scrum Master)
Ivan Chernyak
Alberto Garagnani

Project Motivation

- Wanted to create a platform to help keep track of meal plans
  - Ingredient Checklist
  - Creating your own recipes
- More customizable meal planner
  - Click and drop recipes into calendar slots
  - Recipes can be uploaded by yourself or other people

Intended users, problem, opportunity addressed

- Intended Users
  - People who want to plan out their meals
    - Adds more structure to their lives
    - One decision at the beginning of the week
      - saves time overall
- Problem addressed
  - More freedom with your meal plans
    - Track what ingredients you have on a checklist
    - Create your own recipes to add
      - Recipes are better tailored to the user

Goals

Set out to achieve

- Create weekly meal plans from a set of recipes
- Copy previous meal plan of others to the current meal plan
- Generate Ingredients checklist
- See other users' meal plans and recipes
- Set a meal as public or private
- Set user allergies

Goals

Achieved

- Create meal plans from a set of recipes
- Copy a previous meal plan to the current meal plan
- Ingredients checklist
- See other users’ meal plans and recipes

Biggest Challenges

Connecting frontend and backend

- This part took longer than expected

Acceptance Criteria

- Considered features implemented if we had frontend and backend, but not the end to end

Merge requests and conflicts

- Git source control would be held up due to merge conflicts

SMARTMEAL

LOGIN SIGN UP

You can create and save your own meal plan and generate a grocery list from it!

You can now move away from sporadic buying and instead buy in bulk with a plan in mind!

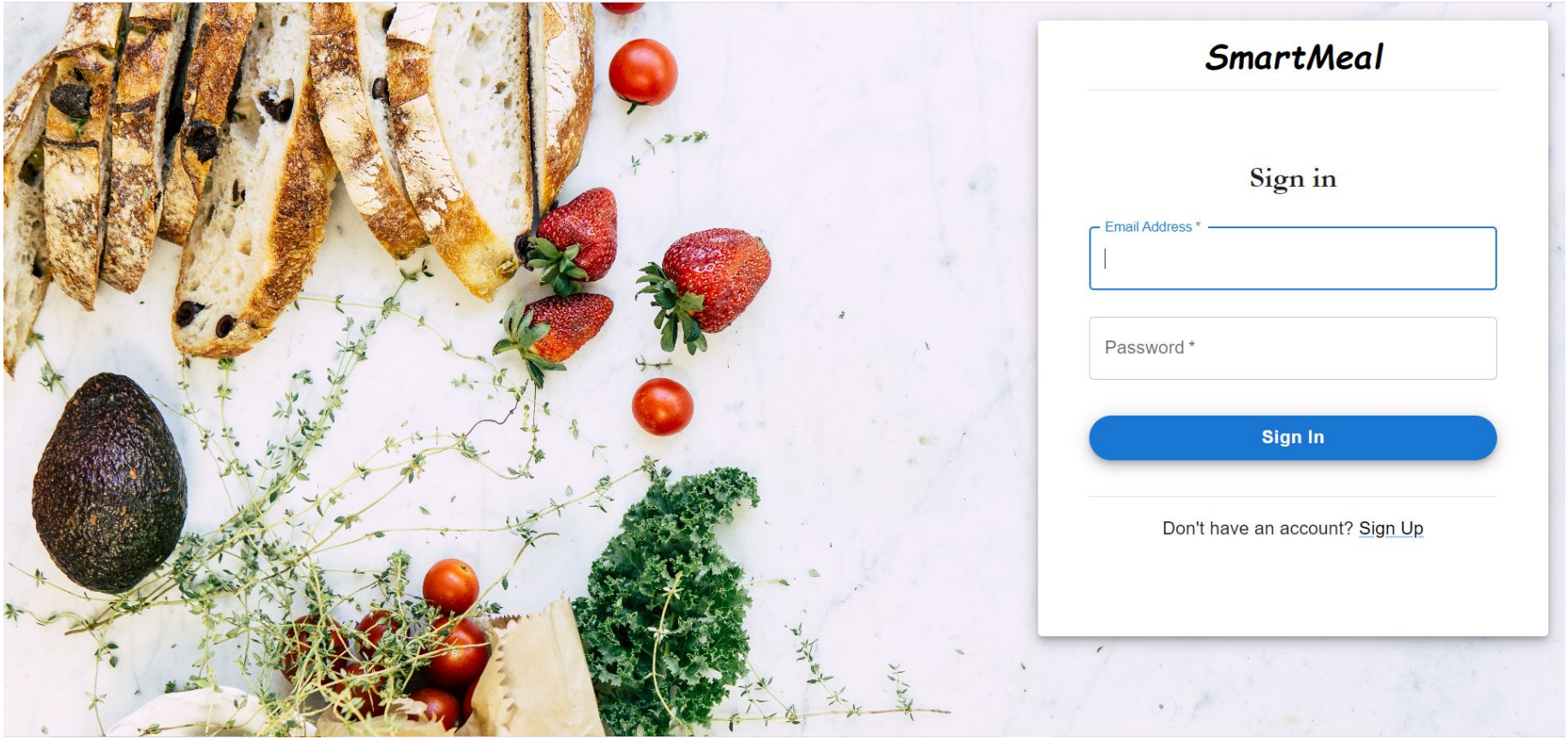
This will save your time! You will have a clear and concise grocery list with stores to visit provided

Weekly Schedule

Personalize your weekly meal plan, find the meals that fit you the best and add them to your schedule. Choose your preferred diet with the filter tool and much more

Your recipes

You can create any recipe you want adding a title, an image and a list of ingredients. Personalize your healty recipes and share them with the world!


SmartMeal
Sign in
Email Address *
Password *
Sign In
Don't have an account? Sign Up

SmartMeal

Sign up

First Name

Last Name

Email Address *

Password *

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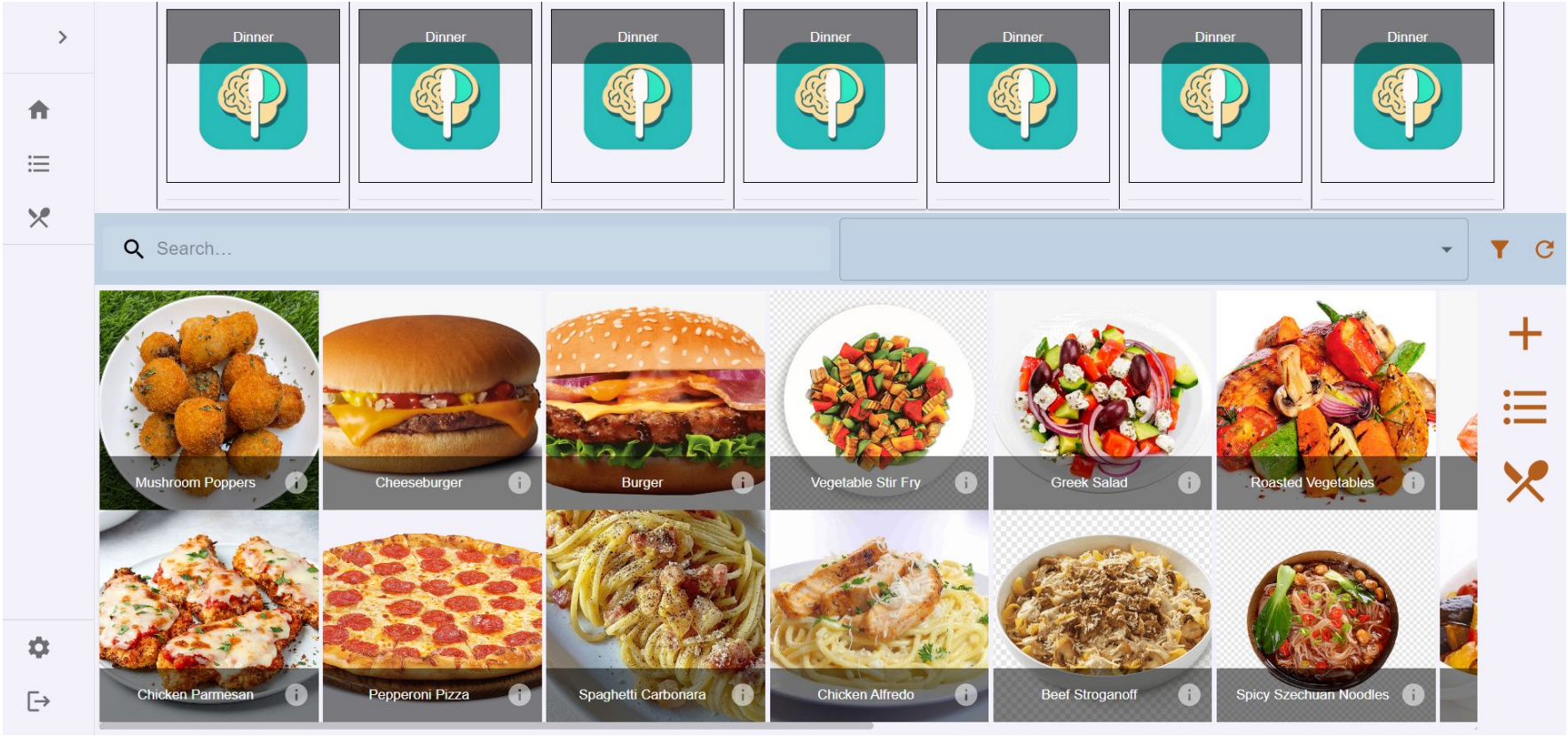
Sign Up

Already have an account? Sign in

MyMeal
Sun
Mon
Tues
Wed
Thurs
Fri
Sat
Breakfast
Lunch
Dinner


Dinner
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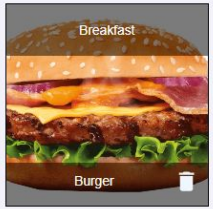
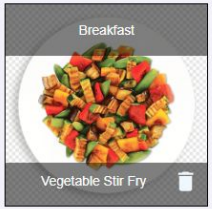
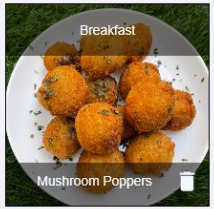
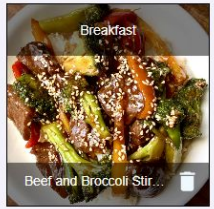
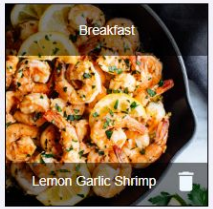
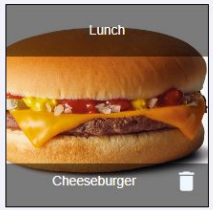
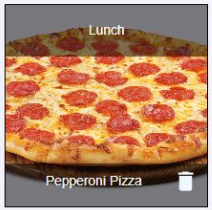
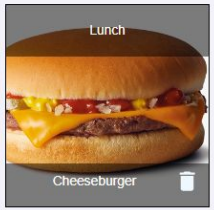
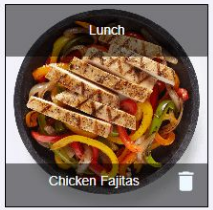
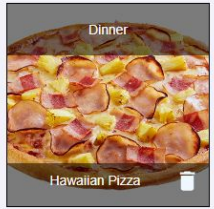
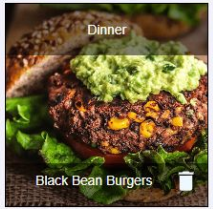
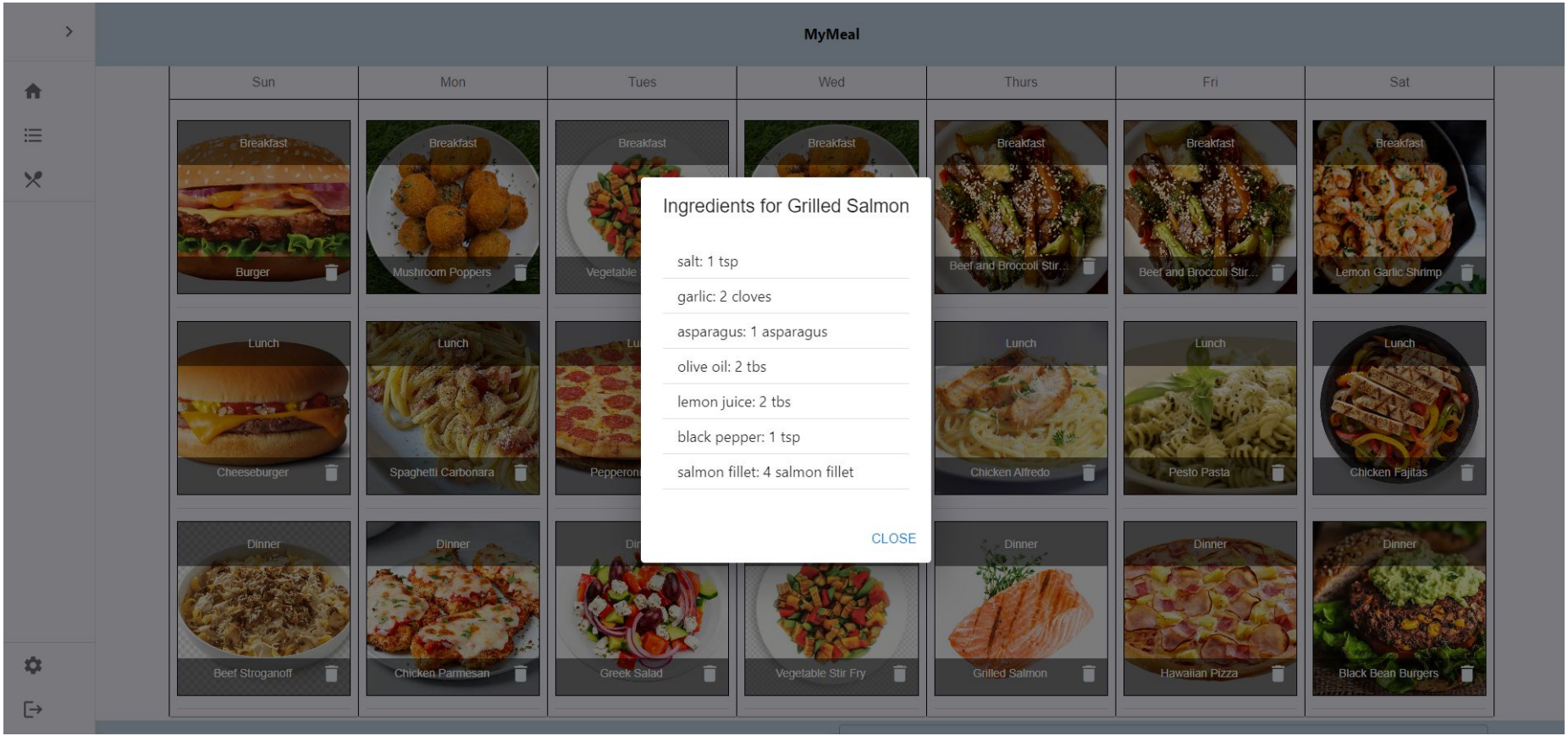
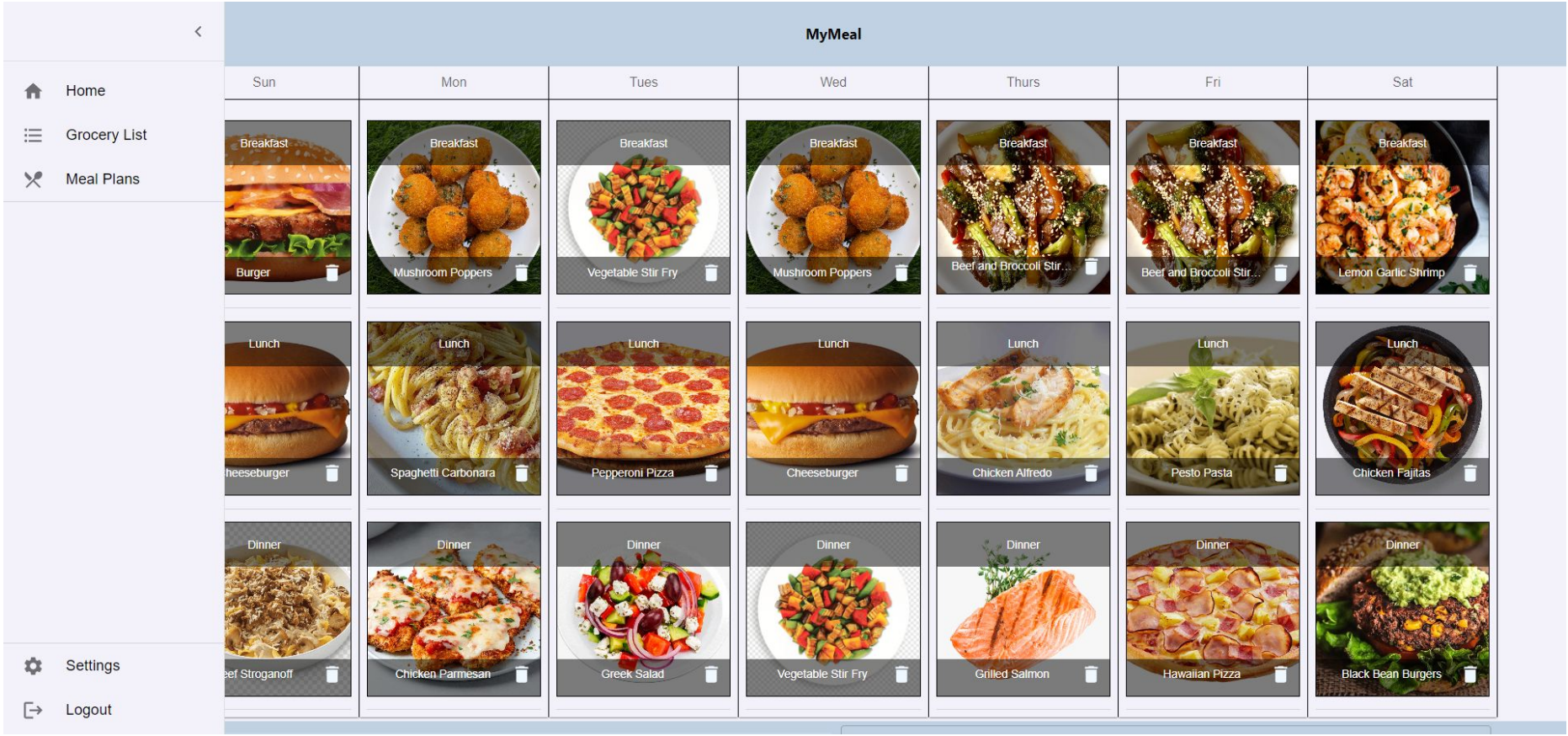
Search...
Mushroom Poppers
Cheeseburger
Burger
Vegetable Stir Fry
Greek Salad
Roasted Vegetables
Chicken Parmesan
Pepperoni Pizza
Spaghetti Carbonara
Chicken Alfredo
Beef Stroganoff
Spicy Szechuan Noodles

MyMeal

Sun	Mon	Tues	Wed	Thurs	Fri	Sat
						
						
						


MyMeal
Sun
Mon
Tues
Wed
Thurs
Fri
Sat
Breakfast
Burger
Mushroom Poppers
Beef and Broccoli Stir...
Lemon Garlic Shrimp
Lunch
Cheeseburger
Spaghetti Carbonara
Chicken Alfredo
Pesto Pasta
Chicken Fajitas
Dinner
Beef Stroganoff
Chicken Parmesan
Greek Salad
Vegetable Stir Fry
Grilled Salmon
Hawaiian Pizza
Black Bean Burgers
Ingredients for Grilled Salmon
salt: 1 tsp
garlic: 2 cloves
asparagus: 1 asparagus
olive oil: 2 tbs
lemon juice: 2 tbs
black pepper: 1 tsp
salmon fillet: 4 salmon fillet
CLOSE


MyMeal
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Grocery List
Meal Plans
Settings
Logout
Sun
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Tues
Wed
Thurs
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Breakfast
Burger
Mushroom Poppers
Vegetable Stir Fry
Mushroom Poppers
Beef and Broccoli Stir...
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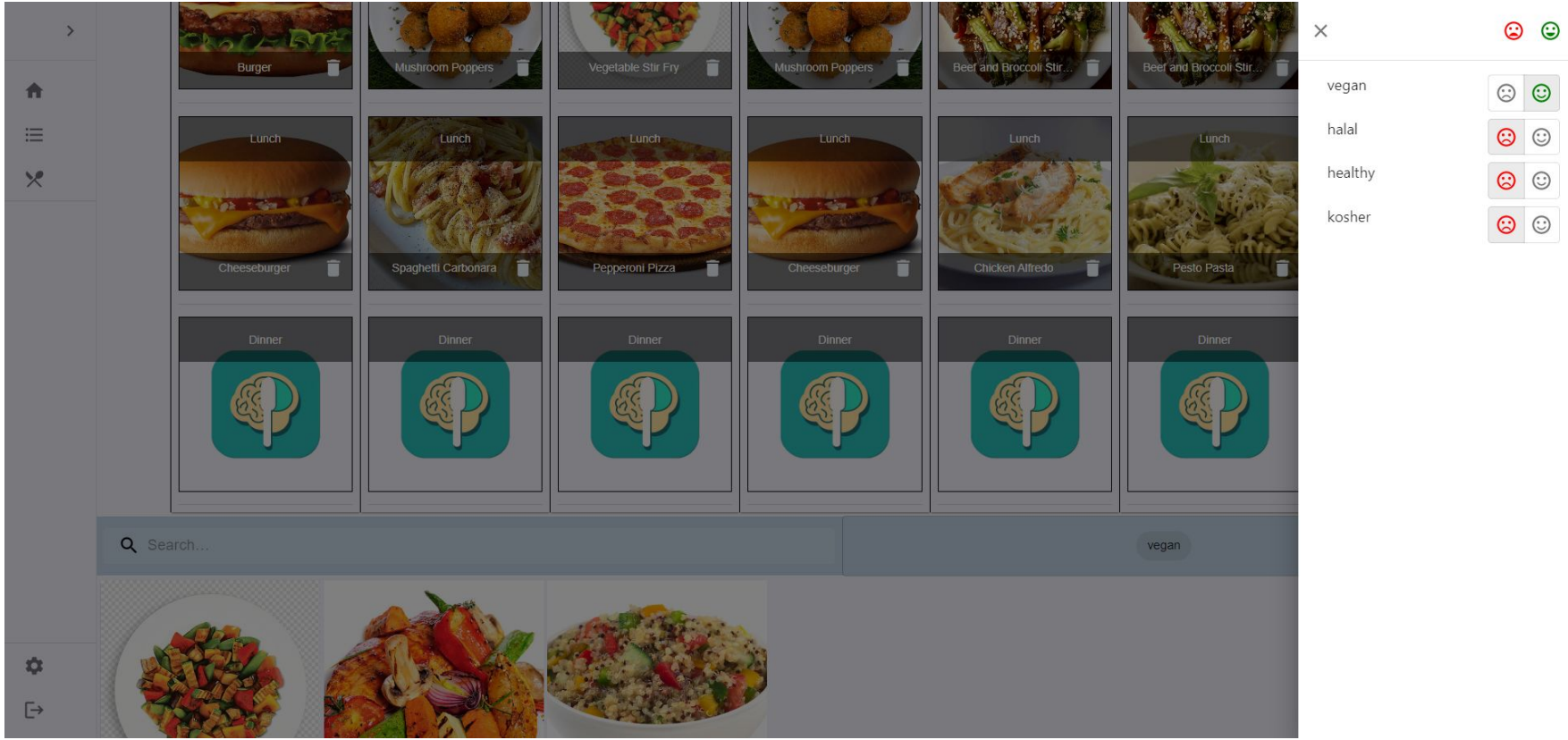
Burger
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Vegetable Stir Fry
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Beef and Broccoli Stir...
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Lunch
Cheeseburger
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Spaghetti Carbonara
Lunch
Pepperoni Pizza
Lunch
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Chicken Alfredo
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Dinner
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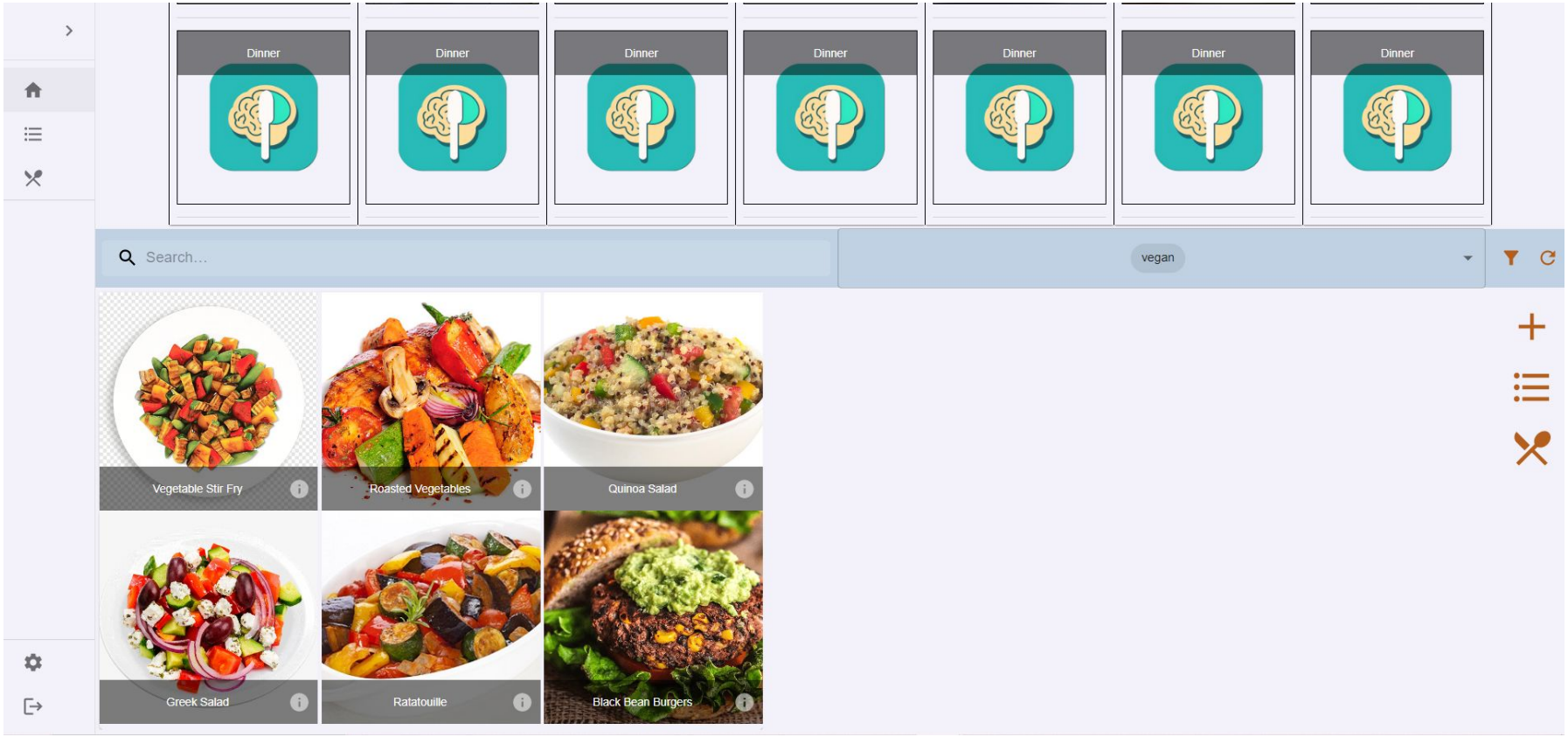
Dinner
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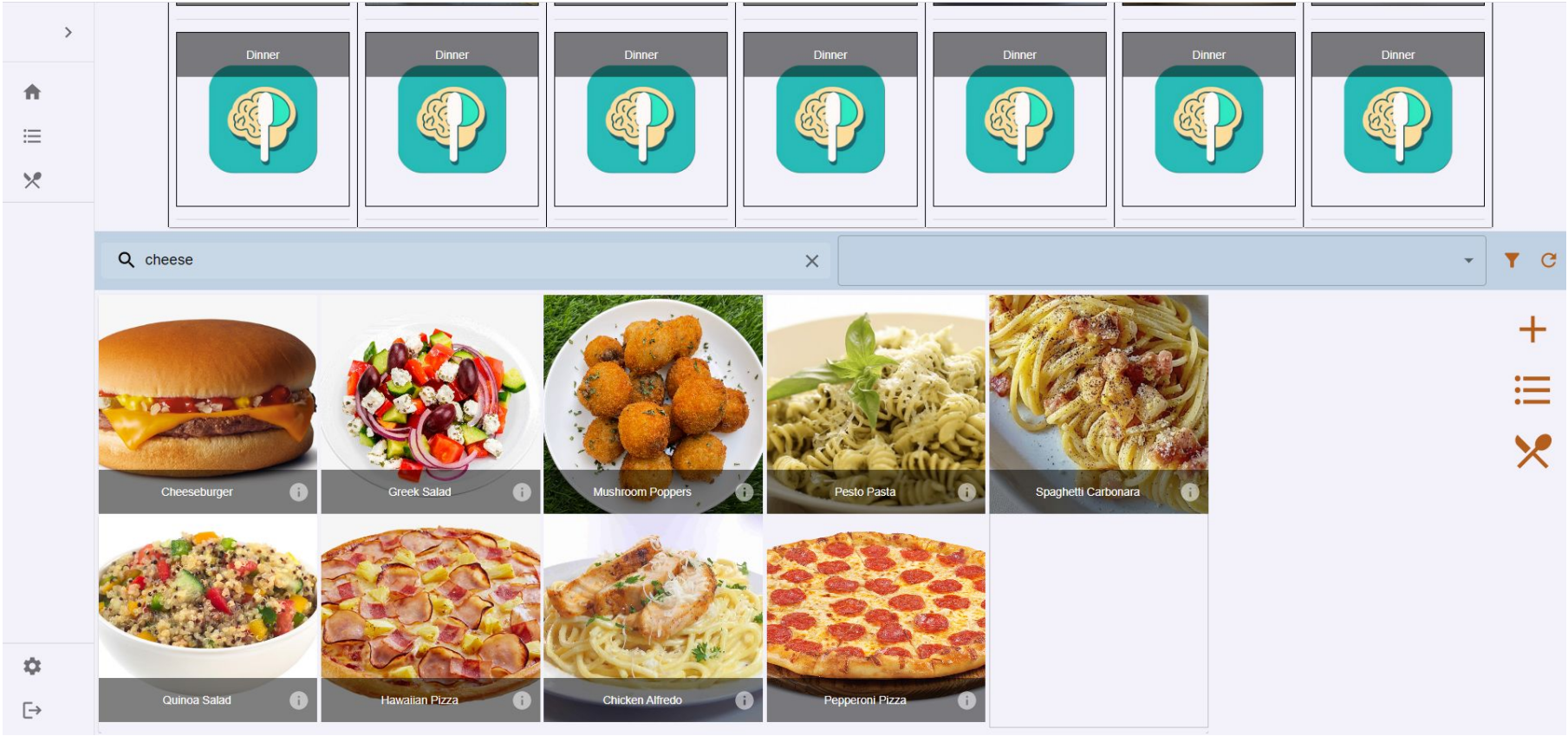
vegan
Vegetable Stir Fry
Roasted Vegetables
Quinoa Salad
Greek Salad
Ratatouille
Black Bean Burgers


Dinner
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Dinner
cheese
Cheeseburger
Greek Salad
Mushroom Poppers
Pesto Pasta
Spaghetti Carbonara
Quinoa Salad
Hawaiian Pizza
Chicken Alfredo
Pepperoni Pizza

Add your Recipe

You can add your own recipe adding a title, ingredients, diets and an optional URL image.

Name of Recipe

Diets

System

Metric US

Select Image (jpeg | png | jpg)

Ingredient

Quantitiy

Unit

ADD RECIPE CLOSE

View Plans

Search...

Public Meals

AlbiPlan		NoMoreIdeas	
PLAN		Test Meal	
My Healthy Meal		What I Like	
Andys Meal		LoVeMeAl	
TheNEW		Bulky	

Rows per page: 5 1–5 of 5

View Plans

Search...

Public Meals

Andys Meal	LoVeMeAl
MyMeal	

Rows per page: 5 1–2 of 2

Week: 3/12/2023 - 3/19/2023

Meal

Mushroom Poppers - Sunday lunch

Ingredient

cheese

tradefor

Low Fat Cheese

Fat Free Cheese

veganalternative

Cashew Cheese

Daiya Cheese

Cancel | Change All | Change this

- [ ] Dairy
  - [ ] cheese, 2 cup
- [ ] Other
  - [ ] egg, 1 egg
  - [ ] baby bella mushroom, 20 baby bella mushroom
- [ ] Grains
  - [ ] rice, 4 g
- [ ] Protein
  - [ ] burger patty, .25 lb
- [ ] Vegetables
  - [ ] jalepeno, 4 jalepeno

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- [x] Dairy
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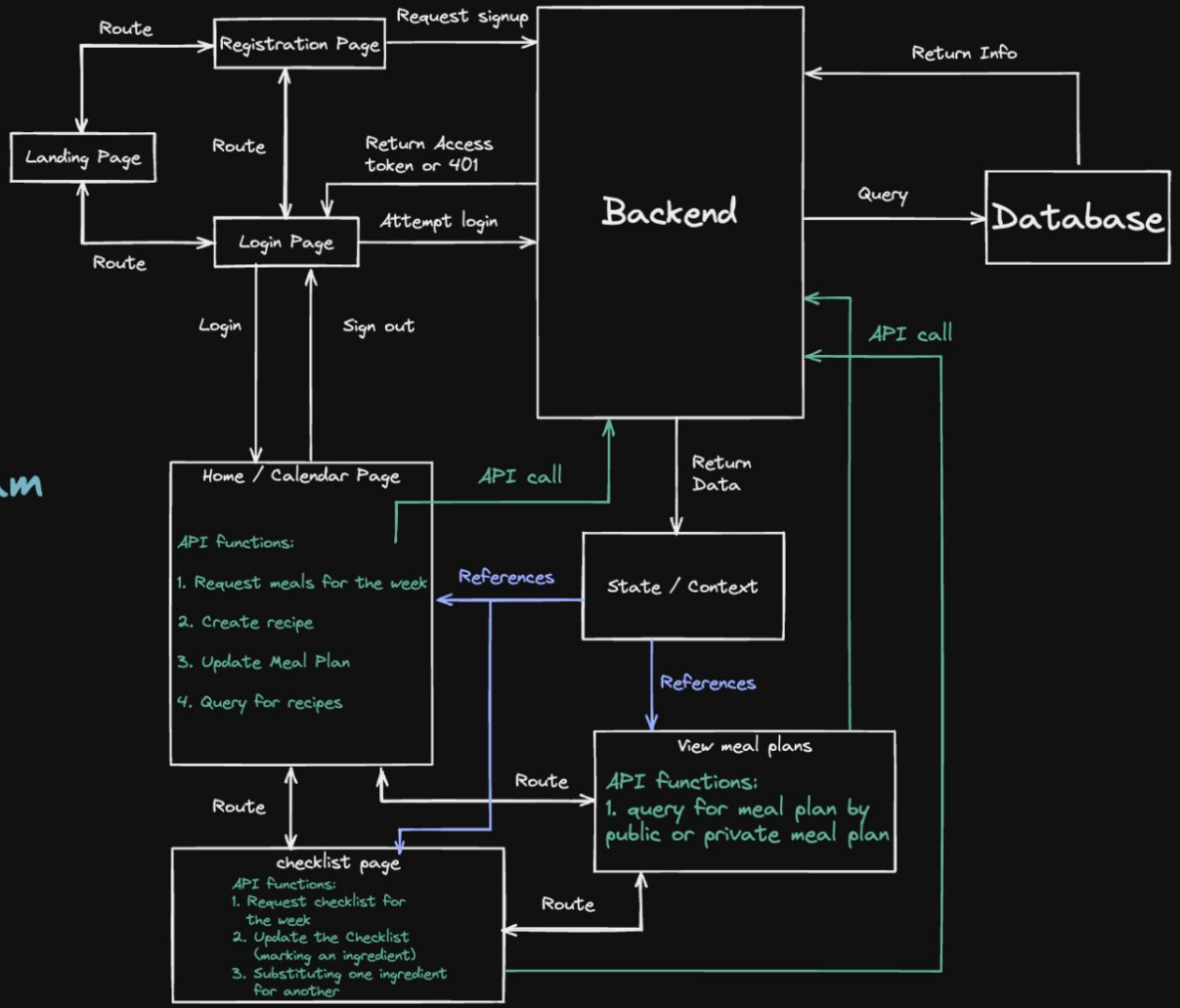
System Overview/Diagram



Technologies used and what they were used for

Javascript

- Main language used for coding

Express

- Used for Backend Middleware to manage endpoints

Swagger.io

- Used to generate interactive API for backend testing

React + MUI

- Main framework for frontend coding

Jest

- Unit test framework

Project management techniques used (1)

- Scrum Board
  - Instead of a physical scrum board, we used Jira
  - Pros
    - Allowed everyone to access from anywhere
    - Jira had useful tools to help us manage workflow
      - e.g. different types of progress charts
      - intuitive ui to help us keep track of completed work
  - Cons
    - Higher learning curve
      - It took us more time to get familiar with the technology

Project Management techniques used (2)

- Agile Scrum meetings held on Discord
  - Held Monday Wednesday Friday from 1:15 pm to 1:30 pm
    - Kept people more accountable for their work
    - Let the team know how progress was coming along
    - During storm, scrum meeting was asynchronous to accommodate for power outages
- Sprint review meetings held in person
  - 2 hour meeting for our sprint review and retrospective
  - Working face to face helped us with in depth planning because we could be more responsive to each other

Things we enjoyed/didn’t enjoy

Things we enjoyed

- App customization
- Piecing components together

Things we didn’t enjoy

- Merge Conflicts
- Color Themes
- Unit Testing!!

Lessons Learned

What worked

- Having scheduled short scrum meetings
  - Held people accountable
  - People didn’t “disappear”
- Holding in person long form sprint post mortem meetings
  - More productive than an online meeting
  - Less likely to get distracted
- Online scrum board
  - Everybody knew what they had to do
  - Easily accessible

Lessons Learned

What didn’t work

- Leaving end-to-end to sprint 4
  - Not connecting frontend and backend right away when features were finished
    - Led to redesign of the features in the end
    - Many bugs discovered late in project lifespan
- Better documentation up front
  - Documentation was not clear enough sometimes
  - Led to confusion when frontend would need to look at backend functions and vice versa

Lessons Learned

Things we wish we had done

- Schedule more meetings outside of scrum meetings
  - We would bring up roadblocks in our scrum meetings
    - needed more follow up
- Included actual recipes to the meal plans
  - Users would benefit from being reminded on recipes

Thank you