Group 3 project assignment

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Project team:

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Our concept

The positive effects of eating a wide variety of fruit and veg has become more popularised in recent years. Specifically, experts now recommend that we eat 30 different plants a week.

We also know that eating local and seasonal food is healthier for us and better for the environment than exporting out-of-season products year-round.

But the thought of eating 30 different plants a week can be overwhelming. On top of that, understanding what is in season each month can make meal planning a headache!

Our app puts the ease in seasonal eating. The Thirty Plant Kitchen™ app helps people discover which plants are at their best and how to incorporate more fruit and veg varieties in delicious, healthy recipes.

Background research

- 30 plants challenge: https://zoe.com/learn/30-plants-per-week
- Seasonal eating: https://hubbub.org.uk/how-to-eat-seasonally-in-the-uk-a-month-by-month-guide)
- Five benefits to seasonal eating: https://www.farringtons.co.uk/post/eat-the-seasons-seasonal-local-fruit-and-vegetables-from-farrington-s-farm-in-bristol#:~:text=Seasonal%20food%20is%20fresher%2C%20tastier,to%20your%20plate%20the%20better

Our solution

With the Thirty Plant Kitchen™ app users can:

- discover what's in season by searching our database of 100+ plant ingredients by month,
- select from 10-20 seasonal plants to include in their recipe search,
- select from a range of recipes packed with at least 5 seasonal plant-based ingredients,
- track how many fruit and veg they have eaten in the 30-a-week-challenge.

Target audience

Anyone who wants to improve their health by introducing more plant varieties into their diet in a delicious, easy and environmentally-friendly way.

Our toolkit

We'll use the following software and languages to build our app:

- React and JSX to build and design an interactive user interface,
- SQL to store seasonal plant data,
- REST API for recipe searches (either Edamam or TastyAPI),
- Redux for (TBC - testing?).

Ways of working

We have created a document for team members to share their strengths, weaknesses and initial project ideas. We'll use this as a guide to assign project tasks based on team member's preference (bearing in mind the requirement for all team members to contribute some code).

We will use MoqUps to:

- wireframe what screens need to be built for the app,
- design a blueprint for components on each screen,

Draft wireframe:
https://docs.google.com/presentation/d/1pEN4YdPb_QkNUwHMqQYe0lJ04zSqMwvVPf9nTq4Akmw/edit?usp=sharing

We will use Canva to:

- design and set the style for our app's brand

Draft branding:
https://docs.google.com/presentation/d/1PBDWjkCJ_BbBFrneY3MsQH9uq2xF_0gttXVRDgjKP9U/edit?usp=sharing

We will use Jira to:

- breakdown all project tasks into user stories,
- plan and prioritise the order of user stories,
- allocate tasks / features for team members to complete.

Our team Kanban board:
https://group-3-spring-24.atlassian.net/jira/software/projects/KAN/boards/1

We will use regular Slack chat / Zoom team meetings to:

- check in on progress / assign tasks,
- discuss any blockers,
- do ad hoc pair programming to work through issues,
- prepare / practice our final presentation.

Main features

The main features of our project include:

1. Clean, accessible user interface across all pages
2. Homepage with interactive quiz / form
3. Ingredients results page
4. Recipe results page
5. Sign up / My account page
6. About us page

Clean, accessible user interface

An interface designed in React using JSX (HTML & Javascript) and CSS that is intuitive to use.

Each page will be branded consistently and include a header, logo, navigation bar and footer.

Homepage with interactive quiz

Our homepage will have a clear call to action to sign up / start the quiz.

The main feature will be an interactive form built with JSX and connected to an SQL database via local API.

The quiz will get the user's dietary preferences. We'll ask the user what category of seasonal plants they want to include in their recipe base. The user can select from:

- fruit,
- vegetables,
- legumes,
- grains,
- nuts & seeds,
- herbs & spices.

The user can also choose to exclude specific foods they don't like / are allergic to.

The database will include at least 5 ingredients in each category per month (some ingredients will be in season across 2-3 months).

This will use a GET request for the endpoint.

The homepage will also provide an overview of the app and features so users know what they are signing up to.

Ingredients results page

The first results page will be built with JSX and returns 10-20 seasonal ingredients from the database rendered in a checklist format.

The user can then click and select a minimum of 5 ingredients to include in their recipe search.

This will use a GET request for the endpoint and be connected to a REST API.

Recipe results page

The second results page will be built with JSX and returns 10 recipes based on the user's ingredients criteria.

Each recipe is returned as a recipe card component with:

- image,
- recipe name,
- serving size,
- nutritional information
- preparation time (**Note:** the Edamam API does not include prep time or cooking instructions – simply a link to the recipe on the internet. Need to research what TastyAPI offers).

Sign up / My account page

We do not have time / scope to create a secure authentication system. However, we will aim to create a page built with JSX that allows the user to save their favourite recipes and track how many plants they have eaten as part of the 30-a-week challenge.

We might need to use local storage for this using React State and Hooks, or state management with Redux (TBC).

TBC - This will use a PUT request for the endpoint and be connected to an SQL database via local API.

About us page

Information about the team members behind the app including:

- Name
- Profile pic
- Snappy bio (100 characters max)
- Link to Github or LinkedIn profile