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**EC602 Project 2**

**Github link:** https://github.com/jtsui1/EC601-projects.git

**Link to API:** https://www.fruityvice.com/#3

**User stories:**

* I want to learn more about a particular fruit
* I want to cook with less fat and sugar
* I want to make healthier food choices
* I want to grow fruits in my garden

**Product mission statement:**

“Empower people to make more informed fruit choices”

**Minimum Valuable Product (MVP):**

For the MVP, I have chosen to focus on displaying the info by fruit and by nutrition content. The API provides various pieces of information for many kinds of fruits, but one of the most common things people look at when picking food and aiming to make more healthy choices is the nutritional content of the food. The other fields of info provided by the API (scientific names, family and biological order of fruits), are more specialized info that people generally would not search for directly unless they already had that knowledge beforehand. By letting people search by fruit rather than by the more obscure parameters, they are more likely to get info/results and thus more use out of the API.

The python program I’ve written allows users to look up all the available data of a chosen fruit, or to return a list of all fruits that fall within a specified range for a specific nutritional attribute.

**User stories generated by ChatGPT:**

ChatGPT prompt:Create user stories for a fruit API

*Here are some user stories for a Fruit API:*

*1. As a user, I want to retrieve a list of all available fruits*

*• Description: Users can request a list of all fruits stored in the database.*

*• Acceptance Criteria:*

*• API endpoint returns a list of fruits, including their name and basic details (e.g., color, taste, etc.).*

*• Data is returned in JSON format.*

*2. As a user, I want to retrieve details about a specific fruit*

*• Description: Users can search for a fruit by name or ID and receive detailed information about it.*

*• Acceptance Criteria:*

*• API allows searching for a fruit by ID or name.*

*• Detailed information about the fruit is provided, including attributes like nutritional value, color, seasonality, and origin.*

*3. As a user, I want to search for fruits based on certain attributes*

*• Description: Users can filter fruits based on specific criteria, such as color, taste, or season.*

*• Acceptance Criteria:*

*API supports queries to filter fruits based on attributes like color (e.g., “red”), taste (e.g., “sweet”), or season (e.g., “summer”).*

*• Results are returned in a paginated format, if necessary.*

*4. As a user, I want to add a new fruit to the database*

*• Description: Users can add new fruits to the database with relevant details.*

*• Acceptance Criteria:*

*• API allows authenticated users to submit new fruit data (name, color, taste, nutritional value, etc.).*

*• Successful requests result in a confirmation response with the new fruit’s ID.*

*5. As a user, I want to update the details of an existing fruit*

*• Description: Users can modify the information of a fruit already in the database.*

*• Acceptance Criteria:*

*• API supports updating specific details of a fruit (e.g., changing its name, color, or nutritional data).*

*• Only authenticated users can perform updates.*

*• Successful updates return the updated fruit details.*

*6. As a user, I want to delete a fruit from the database*

*• Description: Users can delete a fruit from the system by providing its ID.*

*• Acceptance Criteria:*

*• API allows authenticated users to delete a fruit by ID.*

*• Deleted fruit is removed from all API queries.*

*• A confirmation message is returned upon successful deletion.*

*7. As a user, I want to retrieve fruits that are in season*

*• Description: Users can request a list of fruits that are currently in season.*

*• Acceptance Criteria:*

*• API provides a list of fruits based on the current season or a specified season.*

*• Results include detailed information about each fruit.*

*8. As a user, I want to retrieve nutritional information for a specific fruit*

*• Description: Users can request detailed nutritional information about a specific fruit.*

*• Acceptance Criteria:*

*• API provides detailed nutritional data, such as calories, vitamins, minerals, and sugar content for the selected fruit.*

*9. As a user, I want to get fruits that pair well with each other*

*• Description: Users can request a list of fruits that complement or pair well with a given fruit.*

*• Acceptance Criteria:*

*• API allows users to input a fruit and receive a list of suggested complementary fruits based on taste, texture, or culinary pairings.*

*10. As a user, I want to get fruits based on their health benefits*

*• Description: Users can search for fruits that provide specific health benefits, such as fruits high in vitamin C or those good for digestion.*

*• Acceptance Criteria:*

*• API supports search queries for health benefits (e.g., “high in fiber,” “rich in antioxidants”).*

*• Results include a list of fruits that match the specified health benefit criteria.*

*These user stories should cover a wide range of functionalities for a Fruit API, ensuring it meets various user needs.*

The ChatGPT output includes similar user stories, but it also includes some from different perspectives, and some stories are also more specific and defined. Notably, stories #4-6 are from the perspective of someone maintaining the database rather than an end user.

ChatGPT also generated acceptance criteria for each story, which describes how the user would enter queries and what the results would look like. Since the prompt was for a general fruit API, it generated some stories that are not implementable with my chosen API, specifically #9 and #10.