Nutritionacts

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1. App Overview:

Nutritionacts is an Android and iOS app which will let user get nutritional facts or data about any food item by allowing user to take picture of the food or just by uploading it to the app.

2. Requirements:

1. User will open the app.
2. User will **select an Image** or **Open Camera** to click the Image
3. ML Model will **analyze** and after detection, call the **Database or API** to get the information about the Food.
4. The Data will be then **Displayed** to the user

Use Cases:

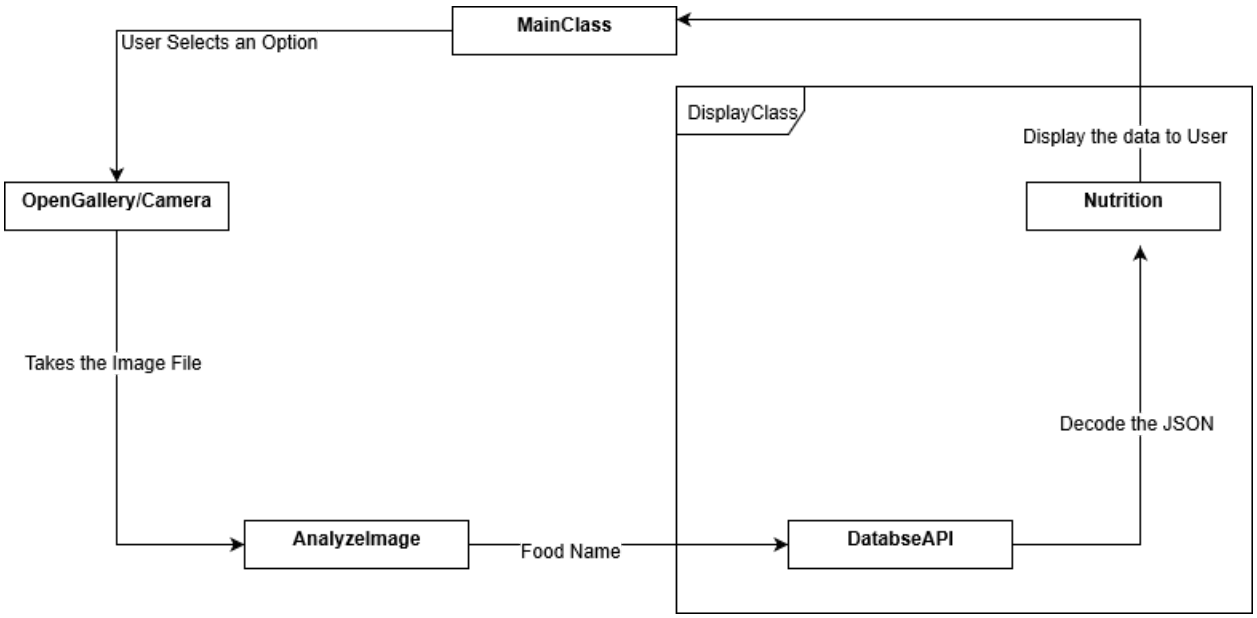
Action by User	Action by System
1. Select an Image or Click an Image	
	2. Take the Image and Analyze it. If Food detected go to Step 3 or if not detected go to Step 4.
	3. Call the API to get the information about the Food and go to Step 5
	4. If the food detected has very little

	confidence then we ask the user for confirmation. If user presses ‘Yes’, we move on with Step 3. If user presses ‘NO’, we redirect user to Step 1.
	5. Display the data to the user and a Home Button.

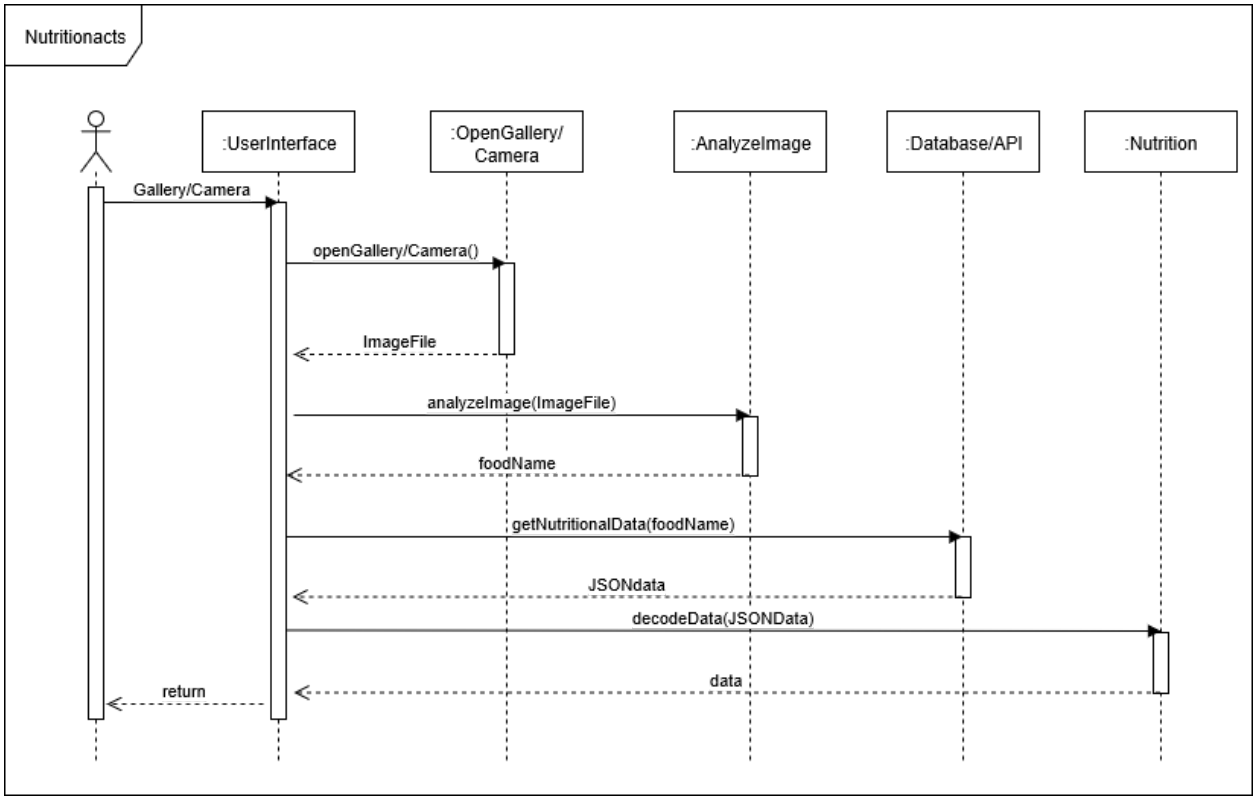
List of Concepts:

- Foods
- Calories
- Camera
- Gallery
- Analyze Image
- Database API
-

3. Conceptual Diagram:



4. Sequence Diagram:



4. Class Diagram:

Nutrition
+ alltheData: String
+ Nutrition(): void + fetchJSON(Map<dynamic, dynamic>): nutrition

OpenGallery

+ imageFile: File
+ Future getImageFromCamera(): File + analyzeImage(): String

OpenImage
+ imageFile: File + foodName: String
+ Future getImageFromGallery(): File + analyzeImage(): String

DisplayData
+ alltheData: String, int + JSONData: map
+ getDataFromAPI(foodName): JSONData + decodeJSON(JSONData): Nutrition