Document: Project Proposal	Course: BSCOE 2-4	Course Code: CMPE 30074
Group Name: BA²E	Instructor: Engr. Pedrito M. Tenerife Jr.	Date: 09/06/2023

Group Members:

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Trinidad, John Lawrence E.	UI/UX

I. **Title of the Project:**

BARCODE-A

Rationale

The rationale for developing this app revolves around the need to provide users with a convenient way to retrieve information about various products. By leveraging the app's capabilities, users can make informed decisions based on their specific dietary needs, allergies, or preferences. The app promotes transparency, enables users to stay informed about the products they consume, and prioritizes user safety, health, and convenience.

The target audience will benefit from this app by being able to access essential product information conveniently. By scanning barcodes or manually entering product details, users can retrieve information such as expiration dates, nutrition facts, and allergen details. This personalized experience empowers users to make informed choices based on their individual preferences and health requirements.

The app's alarms and notifications feature serve as a proactive measure to warn users about potential allergens in products. This is especially crucial for individuals with severe allergies who need to carefully monitor the ingredients in the products they consume. By receiving timely reminders, users can double-check ingredients and make informed decisions, reducing the risk of allergic reactions or other health complications associated with allergens.

Not only do individuals benefit from this app, but the community also gains several advantages. The app provides a convenient way for community members to access information while shopping for groceries, ensuring healthier food options. By retrieving crucial information about products, individuals can make informed decisions about the foods they choose to

consume, prioritize their diet and overall health, and adhere to specific dietary preferences or requirements.

With access to comprehensive product information, the app empowers community members to take control of their food choices, promoting a healthier lifestyle. By encouraging individuals to make more informed decisions about the products they purchase and consume, the app has a positive impact on their overall well-being and long-term health.

In summary, the rationale for developing this app lies in providing a convenient, transparent, and personalized tool for users to retrieve essential information about products. By prioritizing user safety, health, and convenience, the app empowers individuals to make informed choices, avoid allergens, and promote a healthier lifestyle. The community benefits from improved access to information, enabling them to prioritize their diet, make healthier choices, and positively impact their overall well-being.

II. About the Project

This project focuses on developing an app that offers a convenient way to retrieve information about various products. The app can be accessed either by scanning the product's barcode using the device's camera or by manually entering the product details.

Once the product is scanned or the information is entered, the app utilizes its capabilities to read the barcode or search for the product in its database. The primary purpose of this process is to identify the specific product accurately.

Once the product is identified, the app retrieves and displays essential information about the product. This information typically includes the product's expiration date, nutrition facts, and details about any allergens that the product may contain.

The app aims to provide users with a comprehensive overview of the products they are considering purchasing or consuming. By accessing this information, users can make informed decisions based on their specific dietary needs, allergies, or preferences. It promotes transparency and enables users to stay informed about the products they consume.

III. How will the audience use it?

The target audience for this app will be required to download it from their respective app stores onto their devices. Once downloaded, users will need to create an account and log in using their credentials. The app will only ask for minimal personal information, primarily focusing on the users' food preferences. This includes details such as the types of food they commonly consume and any specific food allergies they may have.

After setting up their preferences, the user will have to use the scanner feature to scan barcodes or by manually inputting the product information.

When a product is scanned or manually inputted, the app will retrieve the relevant details about the product from its database. These details will typically include the product's nutrition facts, and any allergens it contains. The app will then display this information to the user.

Furthermore, the app will provide additional features to enhance user experience and safety. One such feature is the option to set alarms or notifications. The app will issue warnings regarding allergens present in the products based on the user's input from the information page they filled out during account setup. This feature ensures that users are notified if a product contains allergens that could potentially harm them based on their individual preferences and allergies.

Overall, the app aims to provide a personalized experience for users by tailoring the information and alerts to their specific needs and preferences. It prioritizes user safety, health, and convenience when it comes to managing and selecting the products they consume.

IV. **How will the audience benefit from this?**

This app offers several benefits to its audience, primarily focusing on providing alarms and notifications related to allergens in products. These features ensure that users are promptly alerted if a product contains ingredients to which they are allergic. This information empowers users to exercise caution and make informed decisions when it comes to consuming food.

By receiving alarms and notifications about allergens, users can avoid accidental exposure to substances that may cause adverse reactions or allergies. This is particularly important for individuals with severe allergies who need to carefully monitor the ingredients in the products they consume.
The app's notification system serves as a proactive measure, providing timely reminders to users about potential allergens in the products they are

considering. This feature enables users to double-check the ingredients and make informed choices based on their individual allergies and preferences.

By using this app, users can have greater peace of mind when consuming food. They can trust that the app will help them identify potential allergens and take the necessary precautions to protect their health. This can significantly reduce the risk of allergic reactions or other health complications associated with allergens.

Overall, the app's focus on alarms and notifications regarding allergens ensures that users have the necessary information to make safe and informed decisions about the products they consume. It promotes user health and well-being by providing a reliable tool to navigate the complexities of dietary restrictions and allergies.

V.   **How will the community benefit from it?**

The community will experience numerous benefits from using this app, as it provides a convenient way to access information while shopping for groceries. Whenever community members find themselves at a store or heading for grocery shopping, they can open the app to assist them in selecting the correct item.

One of the significant advantages is the app's ability to ensure healthier food options. By using the app, individuals can retrieve crucial information about the products they are considering. This includes details about nutrition facts, such as calorie content, macronutrient composition, and ingredient lists. With this information readily available, community members can make more informed decisions about the foods they choose to consume, thereby prioritizing their diet and overall health.

In addition to nutritional information, the app also helps individuals make choices aligned with their specific dietary preferences or requirements. For example, if someone is following a particular diet, such as a low-sodium or gluten-free diet, the app can provide information about whether a product meets those criteria. This empowers community members to adhere to their dietary goals and prioritize their health needs.

By having access to such comprehensive information, the app enables community members to take greater control over their food choices. It promotes a healthier lifestyle by encouraging individuals to make more informed decisions about the products they purchase and consume. This, in turn, can have a positive impact on their overall well-being and long-term health.

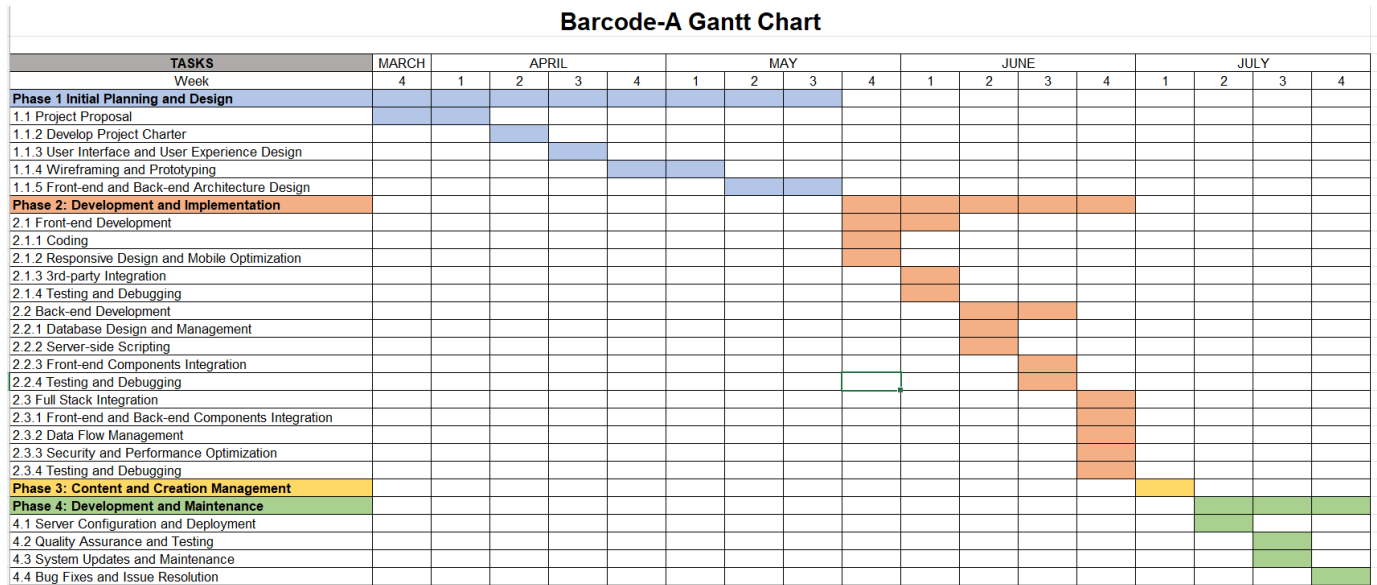| Document:	Course:	Course Code:
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Overall, this app provides the community with a tool to prioritize their diet and make healthier choices while shopping for groceries. By empowering individuals to access information about products, it supports their journey toward improved nutrition and overall well-being.

VI.   **Target UNSDG**

VII. Proposed Timeline of Development (Gantt Chart)

Barcode-A Gantt Chart

TASKS	MARCH	APRIL				MAY				JUNE				JULY			
Week	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Phase 1 Initial Planning and Design																	
1.1 Project Proposal																	
1.1.2 Develop Project Charter																	
1.1.3 User Interface and User Experience Design																	
1.1.4 Wireframing and Prototyping																	
1.1.5 Front-end and Back-end Architecture Design																	
Phase 2: Development and Implementation																	
2.1 Front-end Development																	
2.1.1 Coding																	
2.1.2 Responsive Design and Mobile Optimization																	
2.1.3 3rd-party Integration																	
2.1.4 Testing and Debugging																	
2.2 Back-end Development																	
2.2.1 Database Design and Management																	
2.2.2 Server-side Scripting																	
2.2.3 Front-end Components Integration																	
2.2.4 Testing and Debugging																	
2.3 Full Stack Integration																	
2.3.1 Front-end and Back-end Components Integration																	
2.3.2 Data Flow Management																	
2.3.3 Security and Performance Optimization																	
2.3.4 Testing and Debugging																	
Phase 3: Content and Creation Management																	
Phase 4: Development and Maintenance																	
4.1 Server Configuration and Deployment																	
4.2 Quality Assurance and Testing																	
4.3 System Updates and Maintenance																	
4.4 Bug Fixes and Issue Resolution																	

VIII. Budget Source

The budget for this application will solely be from the creator's capital, which will make them – as there are 4 creators, be the investors and sponsors of the said mobile application project.

IX. Basic Program Flow Chart
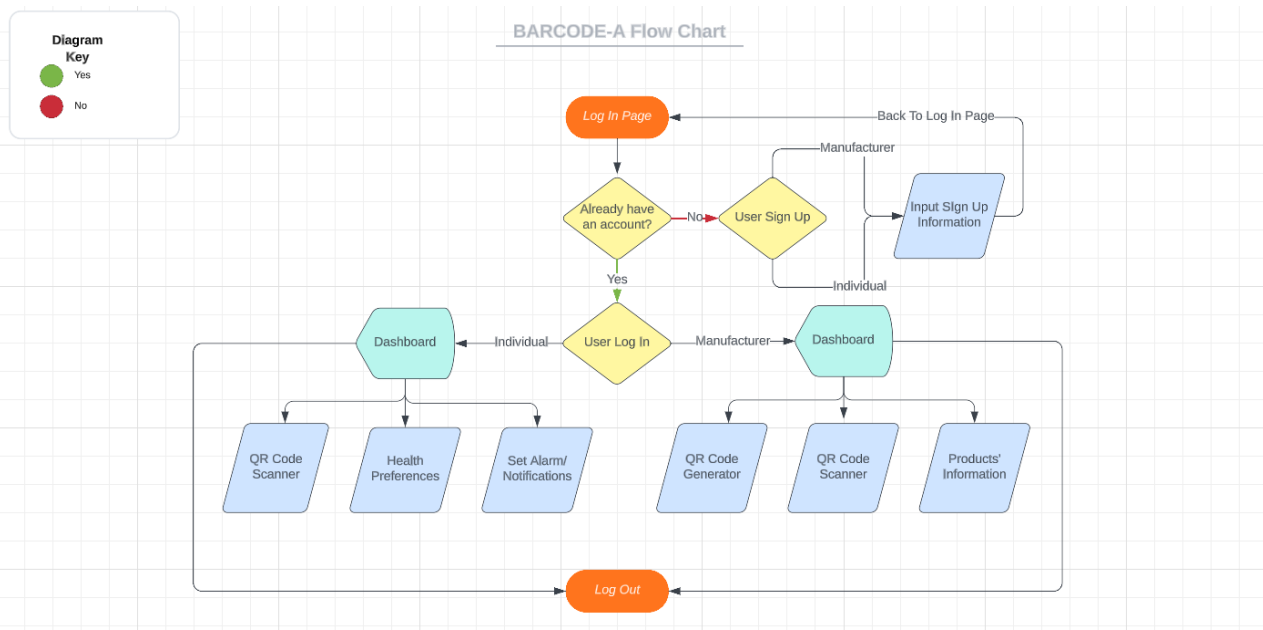
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X.   Plan for Monetization

The app will be monetized on the user side – app features will only be available and usable for those who manage to pay the subscription to the app. If not subscribe for premium usage, there will be ads to access other features.