**HCI Project Phase 1**

**DietaryBot**

Team Members

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i. Project Domain

DietaryBot is a chatbot customer service which simulates human-like conversations with users or customers via text messages or voice commands or both to help them calculate calories, gain or lose weight and achieving better healthy lifestyle. DietaryBot is an artificial intelligence (AI) application that can be deployed and used on any messaging platform. Its main purpose is to assist users by responding to their questions about anything related to diet in general.

ii. What page will serve?

Page will serve people in different ages who pursuing a healthier life and does not have the ability to subscribe a plan with private coach and save their time and energy to search for many misleading information online.

iii. Chatbot requirements and expected scenarios

Requirements:

1-User can learn about diet and know how to 1-Gain weight

2-Maintain weight

3-Lose weight

2-Users can inquire about their 1-Calories per day

2-Protien

3-Carbs

4-Fat

5-Sugar

3. Complex dialogues

In addition to understanding and interacting within conversations, an outstanding chatbot software has NLP functions (Natural Language Processing) to analyze the context of a conversation.

It can identify the intent of a question to provide an accurate answer and suggest options to confirm or resolve the issue.

4. Multi-channel capability

A great chatbot communicates seamlessly across multiple channels such as websites, apps, messenger, phone systems or voice assistants such as Google Assistant or Amazon Alexa.

For a seamless experience, it is also useful if data and context can be stored over several channels.

5. Ongoing optimization

Every single customer interaction represents a way of learning for artificial intelligence (AI). The more often a chatbot is used, the better it gets because it can access more and more data with continuous use.

Expected Scenarios:

**Scenario 1:**

Hi

Hi there, I’m DietaryBot, I’m here to help you to have a healthier lifestyle by calculating your calories and macros Enter START to start the change

Start

"Enter information RESPECTIVELY according to format"+"[Age, Height, Weight, Gender(1-Male/2-Female), Activity rate(1-Sedentary/2-Light/3-Active), Goal(1-Gain/2-Maintain/3-Lose)]"+"\nPLEASE ENTER VALUES SEPERATED BY COMMA , AND ONLY NUMBERS OF GENDER, ACTIVITY RATE AND GOAL"

22,180,70,1,1,1

According to your age, weight, height, and activity rate to maintain your weight you must consume: 2137.08 calories/day

105.0 gramProtien/day

329.0 gramsCarbs/day

49.0 gramsFat/day

36 gramsSugar/day

2637.08 calories/day To reach your weight goal

**Scenario 2:**

Hi

Hi there, I’m DietaryBot, I’m here to help you to have a healthier lifestyle by calculating your calories and macros Enter START to start the change

Start

"Enter information RESPECTIVELY according to format"+"[Age, Height, Weight, Gender(1-Male/2-Female), Activity rate(1-Sedentary/2-Light/3-Active), Goal(1-Gain/2-Maintain/3-Lose)]"+"\nPLEASE ENTER VALUES SEPERATED BY COMMA , AND ONLY NUMBERS OF GENDER, ACTIVITY RATE AND GOAL"

WhatsApp

I didn't understand your message

**Scenario 3:**

Hi

Hi there, I’m DietaryBot, I’m here to help you to have a healthier lifestyle by calculating your calories and macros Enter START to start the change

Start

"Enter information RESPECTIVELY according to format"+"[Age, Height, Weight, Gender(1-Male/2-Female), Activity rate(1-Sedentary/2-Light/3-Active), Goal(1-Gain/2-Maintain/3-Lose)]"+"\nPLEASE ENTER VALUES SEPERATED BY COMMA , AND ONLY NUMBERS OF GENDER, ACTIVITY RATE AND GOAL"

40,160,90,2,1,3

According to your age, weight, height, and activity rate to maintain your weight you must consume: 1949.676 calories/day

135.0 gramProtien/day

423.0 gramsCarbs/day

62.99999999999999 gramsFat/day

24 gramsSugar/day

1449.676 calories/day To reach your weight goal

Project Facebook page:

<https://www.facebook.com/Dietarybot>

Messenger Application:

https://developers.facebook.com/apps/5406587802685898/messenger/settings/