Test Plan

BeNutritious

**Submitted For:**

SER515 – Software Enterprise: Inception and Elaboration.

Arizona State University

**Submitted By:**

Akash Chugh

ASU ID: 1211165446

Email: Akash.Chugh@asu.edu

Contents

[Unit Test Case: 1](#_Toc468422190)

[Component Test Cases: 3](#_Toc468422191)

[System Test Cases: 5](#_Toc468422192)

[Exception and Error handling: 8](#_Toc468422193)

# Unit Test Case:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Sequence | Description | Test data | Expected Result | Actual Result | Remarks |
| 1 | Calorie Check | Name : Akash  Age : 23  Gender : Male  Lifestyle : Active | 3000 Calorie | 3000 Calorie | Pass |
| 2 | Calorie Check | Name : Alexa  Age : 22  Gender : Female  Lifestyle : Active | 2400 Calorie | 2400 Calorie | Pass |
| 3 | Calorie Check | Name : Ellie  Age : 26  Gender : Female  Pregnant : Yes  Lifestyle : Moderate | 2000 Calorie | 2000 Calorie | Pass |
| 4 | Nutrients Check | Name : Akash  Age : 23  Gender : Male  Lifestyle : Active | Calcium : 800mg  Iron : 6mg  Potassium : 4700mg  Magnesium : 400mg  Phosphorus:1200mg  Sodium : 1800mg | Calcium : 800mg  Iron : 6mg  Potassium : 4700mg  Magnesium : 400mg  Phosphorus:1200mg  Sodium : 1800mg | Pass |
| 5 | Nutrients Check | Name : Alexa  Age : 22  Gender : Female  Lifestyle : Active | Calcium : 800mg  Iron : 19mg  Potassium : 4700mg  Magnesium : 300mg  Phosphorus:1200mg  Sodium : 1800mg | Calcium : 800mg  Iron : 19mg  Potassium : 4700mg  Magnesium : 300mg  Phosphorus:1200mg  Sodium : 1800mg | Pass |
| 6 | Nutrients Check | Name : Ellie  Age : 26  Gender : Female  Pregnant : Yes  Lifestyle : Moderate | Calcium : 800mg  Iron : 19mg  Potassium : 4700mg  Magnesium : 300mg  Phosphorus:1200mg  Sodium : 1800mg | Calcium : 800mg  Iron : 19mg  Potassium : 4700mg  Magnesium : 300mg  Phosphorus:1200mg  Sodium : 1800mg | Pass |
| 7 | Required Nutrients Check | Name : Akash  Age : 23  Gender : Male  Lifestyle : Active | Calcium : 675mg  Iron : 3.6mg  Potassium : 1060mg  Magnesium : 346mg  Phosphorus:893mg | Calcium : 675mg  Iron : 3.6mg  Potassium : 1060mg  Magnesium : 346mg  Phosphorus:893mg | Pass |
| 8 | Required Nutrients Check | Name : Alexa  Age : 22  Gender : Female  Lifestyle : Active | Calcium : 785mg  Iron : 0mg  Potassium : 1787mg  Magnesium : 108mg  Phosphorus:0mg | Calcium : 785mg  Iron : 0mg  Potassium : 1787mg  Magnesium : 108mg  Phosphorus:0mg | Pass |
| 9 | Required Nutrients Check | Name : Ellie  Age : 26  Gender : Female  Pregnant : Yes  Lifestyle : Moderate | Calcium : 772mg  Iron : 17mg  Potassium : 4700mg  Magnesium : 300mg  Phosphorus:1043mg  Sodium : 1705mg | Calcium : 772mg  Iron : 17mg  Potassium : 4700mg  Magnesium : 300mg  Phosphorus:1043mg  Sodium : 1705mg | Pass |

# Component Test Cases:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | Calorie and Nutrient | Name : Akash  Age : 23  Gender : Male  Lifestyle : Active | 3000 Calorie  Calcium : 800mg  Iron : 6mg  Potassium : 4700mg  Magnesium : 400mg  Phosphorus:1200mg  Sodium : 1800mg | 3000 Calorie  Calcium : 800mg  Iron : 6mg  Potassium : 4700mg  Magnesium : 400mg  Phosphorus:1200mg  Sodium : 1800mg | Pass |
| 2 | Calorie and Nutrient | Name : Alexa  Age : 22  Gender : Female  Lifestyle : Active | 2400 Calorie  Calcium : 800mg  Iron : 19mg  Potassium : 4700mg  Magnesium : 300mg  Phosphorus:1200mg  Sodium : 1800mg | 2400 Calorie  Calcium : 800mg  Iron : 19mg  Potassium : 4700mg  Magnesium : 300mg  Phosphorus:1200mg  Sodium : 1800mg | Pass |
| 3 | Calorie and Nutrien | Name : Ellie  Age : 26  Gender : Female  Pregnant : Yes  Lifestyle : Moderate | 800 Calorie  Calcium : 800mg  Iron : 19mg  Potassium : 4700mg  Magnesium : 300mg  Phosphorus:1200mg  Sodium : 1800mg | 800 Calorie  Calcium : 800mg  Iron : 19mg  Potassium : 4700mg  Magnesium : 300mg  Phosphorus:1200mg  Sodium : 1800mg | Pass |
| 4 | Nutrient and Required Nutrient Check | Name : Akash  Age : 23  Gender : Male  Lifestyle : Active | Nutrients :  Calcium : 800mg  Iron : 6mg  Potassium : 4700mg  Magnesium : 400mg  Phosphorus:1200mg  Sodium : 1800mg  Required Nutrients :  Calcium : 675mg  Iron : 3.6mg  Potassium : 1060mg  Magnesium : 346mg  Phosphorus:893mg | Nutrients :  Calcium : 800mg  Iron : 6mg  Potassium : 4700mg  Magnesium : 400mg  Phosphorus:1200mg  Sodium : 1800mg  Required Nutrients :  Calcium : 675mg  Iron : 3.6mg  Potassium : 1060mg  Magnesium : 346mg  Phosphorus:893mg | Pass |
| 5 | Nutrient and Required Nutrient Check | Name : Alexa  Age : 22  Gender : Female  Lifestyle : Active  Category : Vegetables and Vegetable Products  Sub Category : Vegetables and Vegetable products | 2400 Calorie  Calcium : 800mg  Iron : 19mg  Potassium : 4700mg  Magnesium : 300mg  Phosphorus:1200mg  Sodium : 1800mg  Required Nutrients:  Calcium : 785mg  Iron : 0mg  Potassium : 1787mg  Magnesium : 108mg  Phosphorus:0mg | 2400 Calorie  Calcium : 800mg  Iron : 19mg  Potassium : 4700mg  Magnesium : 300mg  Phosphorus:1200mg  Sodium : 1800mg  Required Nutrients:  Calcium : 785mg  Iron : 0mg  Potassium : 1787mg  Magnesium : 108mg  Phosphorus:0mg | Pass |
| 6 | Nutrient and Required Nutrient Check | Name : Ellie  Age : 26  Gender : Female  Pregnant : Yes  Lifestyle : Moderate  Category : Breads, Cereals and other grain products  Sub Category : Granola with Raisins, RogersTM | Calcium : 800mg  Iron : 19mg  Potassium : 4700mg  Magnesium : 300mg  Phosphorus:1200mg  Sodium : 1800mg  Required Nutrients:  Calcium : 772mg  Iron : 17mg  Potassium : 4700mg  Magnesium : 300mg  Phosphorus:1043mg  Sodium : 1705mg | Calcium : 800mg  Iron : 19mg  Potassium : 4700mg  Magnesium : 300mg  Phosphorus:1200mg  Sodium : 1800mg  Required Nutrients:  Calcium : 772mg  Iron : 17mg  Potassium : 4700mg  Magnesium : 300mg  Phosphorus:1043mg  Sodium : 1705mg | Pass |

# System Test Cases:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | Calorie, Nutrient and Required Nutrients | Name : Akash  Age : 23  Gender : Male  Lifestyle : Active  Category : Fast Foods  Sub Category : Butter Chicken | 3000 Calorie  Calcium : 800mg  Iron : 6mg  Potassium : 4700mg  Magnesium : 400mg  Phosphorus:1200mg  Sodium : 1800mg  Required Nutrients :  Calcium : 675mg  Iron : 3.6mg  Potassium : 1060mg  Magnesium : 346mg  Phosphorus:893mg  Table Salt, shellfish, seafood, dairy products, wheat bran, seeds and nuts. | 3000 Calorie  Calcium : 800mg  Iron : 6mg  Potassium : 4700mg  Magnesium : 400mg  Phosphorus:1200mg  Sodium : 1800mg  Required Nutrients :  Calcium : 675mg  Iron : 3.6mg  Potassium : 1060mg  Magnesium : 346mg  Phosphorus:893mg  Table Salt, shellfish, seafood, dairy products, wheat bran, seeds and nuts. | Pass |
| 2 | Calorie, Nutrient and Required Nutrients | Name : Alexa  Age : 22  Gender : Female  Lifestyle : Active  Category : Vegetables and Vegetable Products  Sub Category : Vegetables and Vegetable products | 2400 Calorie  Calcium : 800mg  Iron : 19mg  Potassium : 4700mg  Magnesium : 300mg  Phosphorus:1200mg  Sodium : 1800mg  Required Nutrients:  Calcium : 785mg  Iron : 0mg  Potassium : 1787mg  Magnesium : 108mg  Phosphorus:0mg | Table Salt, shellfish, seafood, Diary products, fortified soy milk and tofu, ikan billis amd sardines eaten with their bones. | Pass |
| 3 | Calorie, Nutrient and Required Nutrients | Name : Ellie  Age : 26  Gender : Female  Pregnant : Yes  Lifestyle : Moderate  Category : Breads, Cereals and other grain products  Sub Category : Granola with Raisins, RogersTM | 2000 Calorie  Calcium : 800mg  Iron : 19mg  Potassium : 4700mg  Magnesium : 300mg  Phosphorus:1200mg  Sodium : 1800mg  Required Nutrients:  Calcium : 772mg  Iron : 17mg  Potassium : 4700mg  Magnesium : 300mg  Phosphorus:1043mg  Sodium : 1705mg  Table Salt, shellfish, seafood, dairy products, wheat bran, seeds and nuts. | 2000 Calorie  Calcium : 800mg  Iron : 19mg  Potassium : 4700mg  Magnesium : 300mg  Phosphorus:1200mg  Sodium : 1800mg  Required Nutrients:  Calcium : 772mg  Iron : 17mg  Potassium : 4700mg  Magnesium : 300mg  Phosphorus:1043mg  Sodium : 1705mg  Table Salt, shellfish, seafood, dairy products, wheat bran, seeds and nuts. | Pass |

# Exception and Error handling:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | Age Null  and click on Next Button | Name : Akash  Age : Null | The application should display a text with “Please Enter your age first” | The application displays a text with “Please Enter your age first” | Pass |
| 2 | Age Null and select gender | Name : Akash  Age : Null  Gender : Male | The application should not allow the user to select the gender and pop up a text displaying “Please enter your age first” | The application does not allow the user to select the gender and pops up a text displaying “Please enter your age first” | Pass |
| 3 | Gender Null and click Next Button | Name : Akash  Age : 22  Gender Null | The application should not display the next screen and pop up a message displaying a text “ Please select your gender” | The application does not displays the next screen and pops up a message displaying a text “ Please select your gender” | Pass |