**COLLEGE OF COMPUTER STUDIES**

**Thesis Title:** VegeCam: A PERSONALIZED VEGETABLE-BASED RECOMMENDER FOR CHILDREN’S NUTRITION AND HEALTHY EATING HABITS

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**Documentation Progress**

**Chapter 1**

* **Background of the Study**
* **Objectives**
* **Significance of the Study**
* **Scope and Limitation**
* **Conceptual Framework**

**Chapter 2**

* **Related Literatures**
* **Algorithm Analysis**

**Synthesis**

* **Conceptual Framework**

**Chapter 3**

* **Research Design**
* **Population of the Study**
* **Sampling Design**
* **Data Collection Procedures**
* **Solutions**
* **Software Development Model**

**Chapter 4**

**Objectives of the Study.**

* To train a model using vegetable datasets to accurately classify and identify various types of vegetables based on their images using the MobileNet v2 algorithm
* To Identify the different types of local vegetables in the Philippines using the trained MobileNet v2 model; and
* To test the reliability of the developed system in terms of distance
* To recommend appropriate nutrition intake and protein for children with deficiency using a Decision Support System
* To evaluate the acceptability of the developed system
* To determine if there is a significant difference between the pre-assessment and post-assessment scores in children’s nutritional knowledge after using the mobile application

**Chapter 5**

* **Summary**
* **Conclusions**
* **Recommendations**

**System Modules/Features:**

Module/Features 1: Log in

Purpose: To use the different features of the app base on their account type (Admin, Coordinator, Student)

Edit Text Box Email Address Working Not Working

Edit Text Box Password Working Not Working

Button Log in Working Not Working

Text Button Forgot Password Working Not Working

Module/Features 2: Forgot Password

Purpose: User can reset their password

Edit Text Box Email Working Not Working

Button Reset Password Working Not Working

Text Button Cancel Working Not Working

Module/Features 3: Admin Main Menu

Purpose: Admin can access the add/delete school, create coordinator, view coordinator and student.

Button: Add/Delete School Working Not Working

Button: Create Coordinator Working Not Working

Button: Coordinator Working Not Working

Button: Student Working Not Working

Module/Features 4: Add/Delete School

Purpose: Add and Register School

Button: Add Working Not Working

Auto Complete text view : Select School Working Not Working

Edit Text Box: Full Name Working Not Working

Module/Features 5: Create Coordinator

Purpose: to create coordinator’s account and assign to registered school

Auto Complete text view: Select School Working Not Working

Button: Delete Working Not Working

Edit Text Box: Full Name Working Not Working

Edit Text Box: Email Working Not Working

Edit Text Box: Password Working Not Working

Edit Text Box: Confirm Password Working Not Working

Module/Features 6: Coordinators

Purpose: To view/edit/delete coordinators

Button: Edit Working Not Working

Button: Delete Working Not Working

Floating Activities:

Edit text box: Full Name Working Not Working

Edit text box: Email Address Working Not Working

Button: Update Working Not Working

Alert Dialog:

Button: Edit Working Not Working

Button: Delete Working Not Working

Module/Features 7: Student Account List

Purpose: To view and Filter the list of registered Students

Auto Complete Text view: School Name Filter Working Not Working

Module/Features 8: Coordinators Main Menu

Purpose:

Button: Grade and Section Working Not Working

Button: Create Account Working Not Working

Button: BMI Working Not Working

Button: Students Working Not Working

Module/Features 9: Grade and Section

Purpose: Coordinator can add and delete Grade and Section

Edit Text Box: Grade and Section Working Not Working

Button: Add Working Not Working

Auto Complete Text view: Grade and Section Working Not Working

Button: Delete Working Not Working

Module/Features 10: Create Student Account

Purpose: Register student account

Auto Complete Text view: Grade and Section Working Not Working

Date Picker: Date of Weighing & Measuring Working Not Working

Edit Text Box: Weight Working Not Working

Edit Text Box: Height Working Not Working

Auto Complete Text View: Nutritional Status Working Not Working

Edit Text Box: Full Name Working Not Working

Date Picker: Date of Birth Working Not Working

Radio Button: Male/Female Working Not Working

Edit Text Box: Email Working Not Working

Edit Text Box: Password Working Not Working

Edit Text Box: Confirm Password Working Not Working

Button: Register Working Not Working

Module/Features 11: BMI Calculator

Purpose: Calculate the Body Mass Index (BMI) of the students and determine their nutritional status.

Edit Text Box: Age Working Not Working

Edit Text Box: Weight Working Not Working

Edit Text Box: Height Working Not Working

Radio Button: Male/Female Working Not Working

Button: Calculate BMI Working Not Working

Module/Features 11: Students Account List

Purpose: Calculate the Body Mass Index (BMI) of the students and determine their nutritional status.

Button: Edit Working Not Working

Edit Text Box: Full Name Working Not Working

Edit Text Box: Date of Post Measuring Working Not Working

Edit Text Box: Post-Weight Working Not Working

Edit Text Box: Post-Height Working Not Working

Edit Text Box: Post-Nutritional Status Working Not Working

Button: Update Working Not Working

Button: Delete Working Not Working

Alert Dialog:

Button: Edit Working Not Working

Button: Delete Working Not Working

Module/Feature 12: Student Features

Purpose: To access the RNI and Identify features

Button: RNI

Edit Text Box : Weight Working Not Working

Edit Text Box : Age Working Not Working

Radio Button : Male/Female Working Not Working

Button : Calculate Working Not Working

Text View : Results Working Not Working

Button : Clear Working Not Working

Button: IDENTIFY

Button : Gallery Working Not Working

Button : Camera Working Not Working

Button : Read more Working Not Working

Image Slide : Vegetable Images Working Not Working

Drop Down : Description Working Not Working

Drop Down : Interesting Facts Working Not Working

Drop Down : Health Benefits Working Not Working

Button : Snap Tips Working Not Working

Button : Got it Working Not Working

Module/Feature 13: VegeCam Navigation

Purpose: To organize the account

Button : Home Working Not Working

Button : User Profile Working Not Working

Image Button : Profile Picture Working Not Working

Button : Choose Picture Working Not Working

Button : Upload Working Not Working

Button : Change Password Working Not Working

Edit Text Box : Current Password Working Not Working

Button : Authenticate Working Not Working

Edit Text Box : New Password Working Not Working

Edit Text Box : Confirm New Password Working Not Working

Button : Change Password Working Not Working

Button : About Us Working Not Working

Button : Log out Working Not Working

**System Percentage Estimation: \_\_\_\_\_\_\_\_\_\_\_\_**

(e.g. 50-60% working)

**CONSULTATION FORM**

**Adviser:** Mervin Jommel Tibay De Jesus **Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Chapter 1: Introduction**

|  |  |
| --- | --- |
| **Comments/Suggestions** | **Action Taken** |
| Background of the Study  -2nd paragraph, show the problem effect  -3rd paragraph- what is the cause why student children do not have knowledge of vegetable  -merge the 2-3 paragraph  -4th paragraph, do not mention the title of the study  -2nd and 3rd pg. – include the citations |  |
| Objectives  -2nd objective, include the algorithm that will use  - Remove the “to design and develop |  |
| Significance of the Study |  |
| Scope and Limitation  -please include why 10 vegetables  -focus on the weakness of the system  -include also the platform and criteria  -Distance and Image quality  - How did you identify the 70 beneficiaries |  |

**Chapter 2: Literature Reviews/ Review of Related Literature and Studies**

|  |  |
| --- | --- |
| **Comments/Suggestions** | **Action Taken** |
| Literature Review  -Merge the IDENTIFYING VEGETABLE theme in the VEGETABLE theme  -include the algorithm under the image classification/Image classification theme  -replace mobile applications in gaps in the technology theme |  |
| Algorithm Analysis  -Summary of the results of the 3 study  - In the last part, put an overall based on the comparison of three studies of the algorithm plus the tested datasets  - How many datasets/images were used in the training of the model  - test the datasets in other algorithms to see the accuracy  - Find a study that is related to or close to vegetables |  |
| Synthesis |  |
| Conceptual Framework  - Image reflects to explanation |  |

**Chapter 3: Methodologies**

|  |  |
| --- | --- |
| **Comments/Suggestions** | **Action Taken** |
| Research Design |  |
| Population of the Study  - How many populations have Siniloan Elementary School  -Compare other schools to expand the study |  |
| Sampling Design  -Add more details and definition  - Criteria for choosing your sampling, Elimination  - Mention on sampling how you will select the respondents per grade level according to the purpose  - Overweight people can also be considered as respondents. |  |
| Data Collection Instrument  -Make it past tense  - Data Collection for your dataset |  |
| Statistical Treatment  - Nonparametric- test (Consult with a statistician) |  |
| Solutions  - Not CNN discussions and recommendation part  - The process of CNN  - Add more (Computation, Figure) |  |
| Model Development  -Improved the methodology phase (Detailed) |  |
| Software Development Methodology |  |

**Chapter 4: Results and Discussions**

|  |  |
| --- | --- |
| **Comments/Suggestions** | **Action Taken** |
| Results in Objective 1 |  |
| Results in Objective 2 |  |
| Results in Objective 3 |  |
| Results in Objective 4 |  |
| Results in Objective 5 |  |

**Chapter 5: Summary, Conclusions and Recommendation**

|  |  |
| --- | --- |
| **Comments/Suggestions** | **Action Taken** |
| Summary |  |
| Conclusions |  |
| Recommendation |  |

**Adviser:** Mervin Jommel Tibay De Jesus **Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**SYSTEM**

|  |  |
| --- | --- |
| **Comments/Suggestions** | **Action Taken** |
| User Account:  -Student User Log in  -Student User Register  -Forgot Password |  |
| Landing Page |  |
| BMI  -Add age in BMI  -Recommendation Part |  |
| Identifier  -Add more images for testing  -Validate the content/nutritional value and vegetables  -Next time, for example, bring a different variety  -Check/Add local vegetables in the Philippines  -Limit/Focus the area of detection |  |
| My Preference  -Student Information Page  -Student Preference  -Summary |  |
| About |  |