Model Development Phase Template

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| Date | 21 July 2024 |
| Team ID | SWTID1720437635 |
| Project Title | Nutrition App Using Gemini Pro : Your Comprehensive Guide to Healthy Eating and Well-being |
| Maximum Marks | 5 Marks |

**Feature Selection Report Template**

In the upcoming update, each feature will include a brief description. Users will indicate whether

they have selected it and provide their reasoning for their decision. This process aims to

streamline decision-making and enhance transparency in feature selection.

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| **Feature** | **Description** | **Selected (Yes/No)** | **Reasoning** |
| API  Configuration | Establishes a connection with Google's Generative AI (GenAI) API using an API key stored securely in an environment variable. | Yes | This is essential for interacting with the Gemini Pro and Gemini Pro Vision models. |
| User Interface (UI) | Provides a user-friendly interface built with Streamlit, offering options for selecting meal preferences, entering a text prompt, or uploading an image for general queries. | Yes | Streamlit offers a simplified approach to creating web UIs for data science applications. |

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| Meal Preference Functionality | Allows users to specify meal type, intake type, cuisine, goal, and duration to generate personalized meal plans using the Gemini Pro model. | Yes/No (Optional) | If you want to prioritize meal plan generation, then focus on that feature. If the focus is on general queries, prioritize accordingly. |
| General Query Functionality | Enables users to submit text prompts or upload images for analysis by the Gemini Pro or Gemini Pro Vision model. | Yes | This versatile approach allows users to interact with the app in multiple ways. |

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| Text-based Query Processing | Handles user-entered text prompts and interacts with the text-based Gemini Pro model to generate responses. | Yes | Proper text-based input handling is essential for interacting with the Gemini Pro model |
| Image-based Query Processing | Reads uploaded images, preprocesses them (resizing), and interacts with the Gemini Pro and Gemini Pro Vision models. | Yes/No(optional) | Image-based analysis depends on whether you want to include that functionality. If included, ensure proper image handling and error messaging. |

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| Response Display | Presents the generated responses from the Gemini Pro or Gemini Pro Vision models to the user within the Streamlit  app. | Yes | This is crucial for conveying the results of the user's queries. |