***Personal Nutrition App***

**Software Deployment Plan**

***[Latest update: 2023-11-08]***

**1. System Requirements**

**Operating systems supported:**

* Window 10 and above
* MacOS/X last 2 versions
* Ubuntu 14 and above

**Hardware requirements:**

* At least 100 MB of free hard disk space

**2. Deployment Strategy Summary**

We will upload our file on Github, let users download our code, and let them run on their respective operating system.

**3. Installation Package Contents**

***3.1 Required source or compiled files***

* **main.exe**
* **Sourcefiles:**
  + app/report/goal.py
  + app/report/daily.py
  + app/db/manager/food1.py
  + app/db/manager/food.py
  + app/db/manager/eating\_history.py
  + app/db/validator/food.py
  + app/db/validator/eating\_history.py
  + app/ui.py
  + app/main.py

***3.2 Required third-party components***

* **Database:** SQLite 3 3.37.2

***3.5 Documentation files to be provided***

* **User Guide:** user\_guide.txt
* **Installation Guide**: installation\_guide.doc

**5. Deployment Tasks**

1. Review and make sure the code works.
2. Ensure that the necessary libraries are installed.
3. Create an executable
4. Try running it on different operating systems and see if it works
5. If not, fix it
6. Test the program
7. Make sure that the application functions correctly and all features work as expected.
8. Remove any temporary files that are used during the deployment process.

**6. Deployment Test Plan**

* **Test case 1:** It should connect to the database and store data properly
* **Test case 2:** Should work on all operating systems
* **Test case 3:** Should not allow user to enter negative values for nutrition
* **Test case 4:** Find meal in db function should find meal name regardless of the case sensitivity
* **Test case 5:** Daily report should print the summary of that day inputed data
* **Test case 6:** Should allow user to add meal name with space. Ex: green curry
* **Test case 7:** Calculation from daily report should align with target report in terms of calculation of nutrition
* **Test case 8:** Don't allow user to input future date
* **Test case 9**: Don't allow user to input any but text for meal
* **Test case 10:** Should allow user to go for each option without error