1. **Guidance for Manual Image Collection**
2. **Workflow for API Mode Update with New Foods**

**Guidance for Manual Image Collection**

1. **Objective**
   1. Add new *food items* to current food hierarchy, determine which *food items/ visual food* should be sent to annotator for collection(Now this work is handed over to HPB, sample images are also provided);
   2. Collecting images from internet (all search engines/open source, google, baidu, burple, foodpanda, etc);
2. **Requirements**
   1. Newly added *visual food* should be visually distinguishable from foods of current training dataset; If new food is not distinguishable from some existing foods, just update the hierarchy without image collection; e.g. new request: Coffee with sugar, existing food: Coffee**;**
   2. Each *visual food* should have at least 200 images for training;
   3. .jpg or .jpeg format;
   4. Image quality control: try **NOT** to include:
3. multiple foods in one image(same one or different ones),
4. human in image,
5. food in interest too small in image.
   1. Create folder for each collected food
6. name the folder with **EXACTLY** the same name in excel file;
7. replace white space/slash with underscore;

**Workflow for API model update with new foods**

1. **Objective**

In the request of adding new foods to current training dataset and update the API model;

1. **Workflow**
   1. Put new food image folders into existing training dataset, folder names should be their training labels;
   2. Extract food name hierarchy from excel file, food item/visual food/food category; visual food name after extraction should be **EXACTLY** the same as the training labels after lowercase/underscore replace;
   3. Generate .npy dictionary file for training label to visual food/food items/food category mapping; Make sure the mapping is valid for every label;
   4. Training model with updated dataset and training labels;
   5. Update model file/label file/dictionary file.