Hypothetical Meals

Bulk Format EV 2 Import Proposal v4

Ingredient Import

Format

The format of the file will be **CSV** (Comma Separated Value). This will allow users to easily create files from spreadsheet applications such as Excel and Google Sheets by "export as .csv file" functionality. This will provide an enjoyable experience for the user, as it requires low difficulty and has popular software programs that support this format. It will also allow existing spreadsheets (as stated in the Evolution 2 Introduction) to be used for import, as the format is likely easy to replicate from existing spreadsheets.

Inputs

Headers (correspond to fields below)

- INGREDIENT
- PACKAGE
- AMOUNT (NATIVE UNITS)
- NATIVE UNIT
- UNITS PER PACKAGE
- PRICE PER PACKAGE
- VENDOR FREIGHT CODE
- TEMPERATURE

Fields

- *Ingredient* - unique name of the ingredient being added.
- *Package* - choice of "sack", "pail", "drum", "supersack", "truckload", or "railcar".
- *Amount (Native Units)* - number (can be decimal) of native units of the ingredient currently in inventory (**optional,** which means that it would be 0 if the user does not wish to specify an amount. Whether the amount is added to the inventory is up to each individual team)
- *Native Unit* - string representing the unit of measure for the ingredient
- *Units Per Package* - positive, decimal value of units per package
- *Price Per Package* - positive, decimal value - specified up to hundredths place.
- *Vendor Freight Code* - alphanumeric freight code for an existing Vendor.
- *Temperature* - choice of "**frozen**", "**refrigerated**" or "**room temperature**".

Requirements and other specifications

1. Imported **Vendors** must already be **pre-existing** in the database;
2. Imported Ingredients do **NOT** have to be pre-existing, but can also already be in the database (e.g. adding more stock of an ingredient, if the system chooses to support this functionality)
    a. If an ingredient by name is pre-existing, the packaging, native units, units per package, and temperature state must match

i.　Price per package can be differing if it is from a different vendor
3. The import action shall only occur if the entire input is **free of name conflicts** or otherwise **problematic issues**; if such issues arise, the precise nature of the error should be presented to the administrator in enough detail that it can be corrected.
   a. Problematic issues include vendor doesn't exist, capacity would be exceeded by bulk import, etc.
4. Since the requirements do not say stock needs to be imported, whether or not the amount of an ingredient is imported into the inventory is left up to the individual team
5. All fields are **case insensitive**
6. Character encoding is in **UTF-8**.
7. Price per package must be a positive value, specified up to the hundredths place.
8. If commas are within any field, the field will be **double quoted** by the CSV format to allow for proper parsing.
9. A double-quote appearing inside a field must be escaped by preceding it with another double quote. (e.g. "aaa","b""bb","ccc")
10. The file could take either CRLF or LF as line breaks, but the choice of line break through a particular file should be consistent. Any occurrence of CRLF or LF MUST represent a line break. Use of CR and LF outside of line break sequences is forbidden.

Examples

Ingredient Import

Excel Representation

INGREDIENT	PACKAGE	AMOUNT (NATIVE UNITS)	NATIVE UNIT	UNITS PER PACKAGE	PRICE PER PACKAGE	VENDOR FREIGHT CODE	TEMPERATURE
Ingredient1	Package	Amount (native units)	Native Unit	Units Per Package	Price Per Package	Vendor Freight Code	Temperature
Ingredient1	Package	Amount (native units)	Native Unit	Units Per Package	Price Per Package	Vendor2 Freight Code	Temperature
Ingredient2	Package	Amount (native units)	Native Unit	Units Per Package	Price Per Package	Vendor Freight Code	Temperature
Ingredient3	Package	Amount (native units)	Native Unit	Units Per Package	Price Per Package	Vendor2 Freight Code	Temperature
Ingredient4	Package	Amount (native units)	Native Unit	Units Per Package	Price Per Package	Vendor Freight Code	Temperature
Ingredient5	Package	Amount (native units)	Native Unit	Units Per Package	Price Per Package	Vendor3 Freight Code	Temperature
Ex.							
INGREDIENT	PACKAGE	AMOUNT (NATIVE UNITS)	NATIVE UNIT	UNITS PER PACKAGE	PRICE PER PACKAGE	VENDOR FREIGHT CODE	TEMPERATURE
Carrots, pail	pail	90	lbs	15	20.15	DF2CK21	room temperature
Carrots, pail	pail	500	lbs	30	16.89	JK878DC	room temperature
Carrots - railcar	railcar	432	lbs	432	4000	DF2CK21	room temperature
Grapes - supersack	supersack	100	bunches	25	69.32	JK878DC	frozen
Potatoes - drum	drum	64	units	8	32.1	DF2CK21	refrigerated
Potatoes, sack	sack	32	units	4	6.01	KDC322D	refrigerated

CSV Output from Excel

Format

```
INGREDIENT,PACKAGE,AMOUNT (NATIVE UNITS),NATIVE UNIT,UNITS PER
PACKAGE,PRICE PER PACKAGE,VENDOR FREIGHT CODE,TEMPERATURE
Ingredient1,Package,Amount (native units),Native Unit,Units Per
Package,Price Per Package,Vendor Freight Code,Temperature
```

```
Ingredient1,Package,Amount (native units),Native Unit,Units Per
Package,Price Per Package,Vendor2 Freight Code,Temperature
Ingredient2,Package,Amount (native units),Native Unit,Units Per
Package,Price Per Package,Vendor Freight Code,Temperature
Ingredient3,Package,Amount (native units),Native Unit,Units Per
Package,Price Per Package,Vendor2 Freight Code,Temperature
Ingredient4,Package,Amount (native units),Native Unit,Units Per
Package,Price Per Package,Vendor Freight Code,Temperature
Ingredient5,Package,Amount (native units),Native Unit,Units Per
Package,Price Per Package,Vendor3 Freight Code,Temperature
```

Example

```
INGREDIENT,PACKAGE,AMOUNT (NATIVE UNITS),NATIVE UNIT,UNITS PER
PACKAGE,PRICE PER PACKAGE,VENDOR FREIGHT CODE,TEMPERATURE
"Carrots, pail",pail,90,lbs,15,20.15,DF2CK21,room temperature
"Carrots, pail",pail,500,lbs,30,16.89,JK878DC,room temperature
Carrots - railcar,railcar,432,lbs,432,4000,DF2CK21,room
temperature
Grapes - supersack,supersack,100,bunches,25,69.32,JK878DC,frozen
Potatoes - drum,drum,64,units,8,32.1,DF2CK21,refrigerated
"Potatoes, sack",sack,32,units,4,6.01,KDC322D,refrigerated
```

Formula Import

Format

The format of the file will be **CSV** (Comma Separated Value). This will allow users to easily create files from spreadsheet applications such as Excel and Google Sheets by "export as .csv file" functionality. This will provide an enjoyable experience for the user, as it requires low difficulty and has popular software programs that support this format. It will also allow existing spreadsheets (as stated in the Evolution 2 Introduction) to be used for import, as the format is likely easy to replicate from existing spreadsheets.

Inputs

Headers (correspond to fields below)

- NAME
- PRODUCT UNITS
- DESCRIPTION
- INGREDIENT

- INGREDIENT UNITS

Fields

- *Name* - Unique name of the formula being added.
- *Product Units* - Integer number of product units the formula will produce
- *Description* - A long-form description/notes field about the formula and its product
- *Ingredient* - name of the ingredient being used for this formula
- *Units* - floating-point number of the amount of a particular ingredient consumed in native units used in the formula.

Requirements and other specifications

1. The formula name **cannot be pre-existing.**
2. Ingredients specified in the formula must already be **pre-existing** in the database.
3. The import action shall only occur if the entire input is **free of name conflicts** or otherwise **problematic issues**; if such issues arise, the precise nature of the error should be presented to the administrator in enough detail that it can be corrected.
4. Product Units must be a **positive integer** value.
5. Ingredient Units are **floating point** quantity measured in native units.
6. Each row should only contain one ingredient and one ingredient units, in separate columns.
7. If a formula requires more than one ingredient, only the first column specifying the formula name must be the same in later rows, the other two columns for product units and description will be ignored. Only the product units and description from the earliest row of the formula will be used.
8. Formula for one product should be grouped into consecutive rows. For example, if another row appears with "Cake" in the formula field below "Soup", it would be considered a formula for a new product and would result in a duplication of formula name error, causing the bulk-import to fail.
9. All fields are **case insensitive**
10. Character encoding is in **UTF-8**.
11. If commas are within any field, the field will be **double quoted** by the CSV format to allow for proper parsing.
12. A double-quote appearing inside a field must be escaped by preceding it with another double quote. (e.g. "aaa","b""bb","ccc")
13. The file could take either CRLF or LF as line breaks, but the choice of line break through a particular file should be consistent. Any occurrence of CRLF or LF MUST represent a line break. Use of CR and LF outside of line break sequences is forbidden.

Examples

Excel Representation

	A	B	C	D	E	
1	NAME	PRODUCT UNITS	DESCRIPTION	INGREDIENT	INGREDIENT UNITS	
2	Cake	1	This is a cake	Butter	2	
3	Cake			Egg	1	
4	Cake			Sprinkles	400	
5	Soup	2	This is soup	Tomato	4	
6	Soup			Milk, 2%	1	

CSV Output from Excel

NAME,PRODUCT UNITS,DESCRIPTION,INGREDIENT,INGREDIENT UNITS
Cake,1,This is a cake,Butter,2
Cake,,,Egg,1
Cake,,,Sprinkles,400
Soup,2,This is soup,Tomato,4
Soup,,,"Milk, 2%",1

Acknowledgement

This file is created based on the effort of the format committee, feedback from Professor Bletsch, and csv standards proposed here