From: Diogo & Pedro, CEOs of Bitte

In our continuous effort to innovate and streamline operations at Bitte, we are kicking off a new project to automate the digitization of restaurant menus.

By leveraging Generative AI (GenAI), we aim to convert menu images and PDFs into structured Excel files, facilitating seamless uploads into our platform.

This initiative will enhance our efficiency, reduce manual data entry errors, and accelerate the onboarding process for new restaurant partners.

Our goal is to create a digital menu in less than 5 minutes and have that as a selling point.

Key Objectives

1. **Enhance Data Accuracy and Consistency**
   - Implement AI models to reduce manual errors in data entry.
   - Standardize menu data formatting across all uploads.
2. **Improve Operational Efficiency**
   - Decrease the time required to onboard new menus.
   - Allow our team to focus on higher-value tasks by automating repetitive processes.
3. **Expand Scalability**
   - Enable the handling of a larger volume of menus as we grow our restaurant partnerships.

Technical Implementation

1. Data Conversion Pipeline

- **PDF to Image Conversion:**
- **AI-powered Data Extraction:**

2. Excel Template and Formatting

- **Template Structure:**
- **Column Specifications:**

3. Data Validation and Error Handling

Page Details

Purpose:

The purpose of this page is to provide clear instructions for filling out an Excel sheet that will be used to upload menu items. This structured approach ensures data consistency and accuracy for effective menu management.

Overview:

- Each row in the Excel spreadsheet represents a unique item, categorized under a category or subcategory.
- Category and Subcategory names are repeated for items under the same subcategory.
- Specific columns are left blank when not applicable, such as subcategory details for items directly under a category.
- Detailed item information including names, prices, descriptions, and more should be unique for each entry.
- The content of the uploaded menu will be appended to the current menu without deleting any of the current menu.

Columns Guide:

Column Name	Description	Accepted Values	Example
Category Title (Column A)	Category names in Portuguese	Text, 256 characters max	Bebidas
Category Title in English (Column B) (Optional)	English translations of category titles	Text, 256 characters max	Beverages
Subcategory Title (Column C) (Optional)	Subcategory titles in Portuguese	Text, 256 characters max or leave blank	Sucos

Column Name	Description	Accepted Values	Example
Subcategory Title in English (Column D) (Optional)	English translations of subcategory titles	Text, 256 characters max or leave blank	Juices
Item Name (Column E)	Item names in Portuguese	Text, 256 characters max	Água Mineral
Item Name in English (Column F) (Optional)	English translations of item names	Text, 256 characters max or leave blank	Mineral Water
Item Price (Column G)	Price of each item	Text	2.50 or 2,50
Calories (Column H) (Optional)	The caloric content of each item	Numeric	150
Portion Size (Column I)	Portion size for each item.	Text	500ml
Availability (Column J) (Optional)	Current availability of the item	Numeric	1 for Yes 0 for No

Column Name	Description	Accepted Values	Example
Item Description in Portuguese (Column K) (Optional)	Detailed description of items in Portuguese	Text, 500 characters max	Contains essential minerals
Item Description in English (Column L) (Optional)	Detailed description of items in English	Text, 500 characters max	Contains essential minerals

Notes:

- It is crucial to ensure all data entered follows the specified formats to maintain the integrity of the database.
- Review the data for accuracy and consistency before submitting the Excel sheet to avoid errors in menu representation.
- If the uploaded document does not fulfill all requirements, the menu won't be uploaded and you will get an error message with which rows contain issues.