**Main Use Case:**

* **Description**
  + A user can use OCR to parse a receipt for the data on the receipt given that the image is uploaded into S3 storage under their username’s directory.
* **Pre Condition:**
  + User has a file uploaded into the S3 under their username
* **Input:**
  + {“filename” : “<UserEmail>/<Filename>”}
  + Example:
  + **{**
  + **"filename": "ajwitt2@asu.edu/invoicesysco1.jpg"**
  + **}**
  + **Invoice inputs must have ‘invoice’ in the file name**
* **Success Output:**
  + {
  + "statusCode": 200,
  + "body": "\"Receipt/Document processed successfully!\"",
  + "storeAndTimeStamp": {
  + "Store": "<StoreName>",
  + "Date": "<DateInYYYY/MM/DD>",
  + "Time": "<TimeInHH:MM:SS>",
  + "Total": "<Total>"
  + },
  + "data": [
  + [
  + "<ItemName>",
  + "<Cost>",
  + <Quantity>,
  + <Weight>,
  + "<WeightUnits>"
  + ],....
  + ]
  + }
  + Example:
    - {
    - "statusCode": 200,
    - "body": "\"Receipt/Document processed successfully!\"",
    - "storeAndTimeStamp": {
    - "Store": "COSTCO",
    - "Date": "2021/08/27",
    - "Time": "17:36:19",
    - "Total": "201.33"
    - },
    - "data": [
    - [
    - "580517 \*\*KS TOWEL\*\*",
    - "19.99",
    - 1,
    - 0,
    - "na"
    - ],....
    - ]
    - }
* **Error Output:**
  + {"statusCode": 500, "body": json.dumps("Error processing the recceipt/document!")}

**Other Use Case:** Mapping

* **Description:**
  + Users are able to add their custom mapping of receipt items to inventory items so that the mapping is automatically done during the parsing in the future.
* **Preconditions:**
  + None
* **Input:**
  + {
  + "filename": "none",
  + "receiptItem" : "<ReceiptItemName>",
  + "ingredientName" : "<IngredientItemName>"
  + }
* **Success Output:**
  + {
  + "statusCode": 200,
  + "body": json.dumps("Receipt Mapping Added Successfully!")
  + }
* **Error Output:**
  + {"statusCode": 500, "body": json.dumps("Error updating mapping!")}

**Note:**

This is an incomplete item, especially the invoice. The receipt is hardcoded to understand certain formats of receipts. For example, discounts are understood as prices with a ‘-’ after them. This may not be the case for all receipts, it was the case for all receipt examples provided to us by the sponsor. Additionally, the invoice implementation only has a hardcoded implementation for Sysco receipts. Future invoices from other vendors will need their own hardcoded style/format.