1. On selecting ‘Upload new receipt’
   1. User is prompted with photo upload instructions
      1. Place your receipt on a plain dark surface
      2. Center it in the photo frame on your device
      3. Tap the camera button to capture the photo
   2. Once photo is taken-
      1. “Processing your receipt…” message is displayed
      2. Is\_total\_captured = false & is\_vendor\_captured = false
      3. **Image\_preprocessing.py** enhances the image
      4. **Tesseract\_engine.py** attempts to extract the text
      5. **regex.py** attempts to extract the total spent & vendor name
         1. If total spent & vendor name are successfully extracted:
            1. Is\_total\_captured = true & is\_vendor\_captured = true
         2. If total spent & vendor name are not successfully extracted:
            1. Is\_total\_captured = false & is\_vendor\_captured = false
            2. **Textract\_engine.py** fallback

**Textract\_engine.py** is invoked for more accurate text extraction

**regex.py** attempts to extract the total spent and vendor name

If total spent & vendor name are successfully extracted:

Is\_total\_captured = true & is\_vendor\_captured = true

If total spent & vendor name are not successfully extracted:

Is\_total\_captured = false & is\_vendor\_captured = false

**Manual\_entry.py** is invoked to allow users to manually enter the total spent & vendor name

* + 1. Data validation checks-
       1. Confirm that total is a valid entry (positive value with two decimal places)
       2. The vendor name is not empty or garbled
    2. User is shown the values captured from total\_spent & vendor\_name
    3. Upon user confirmation, total\_spent & vendor\_name, and the original image file are pushed to the database