

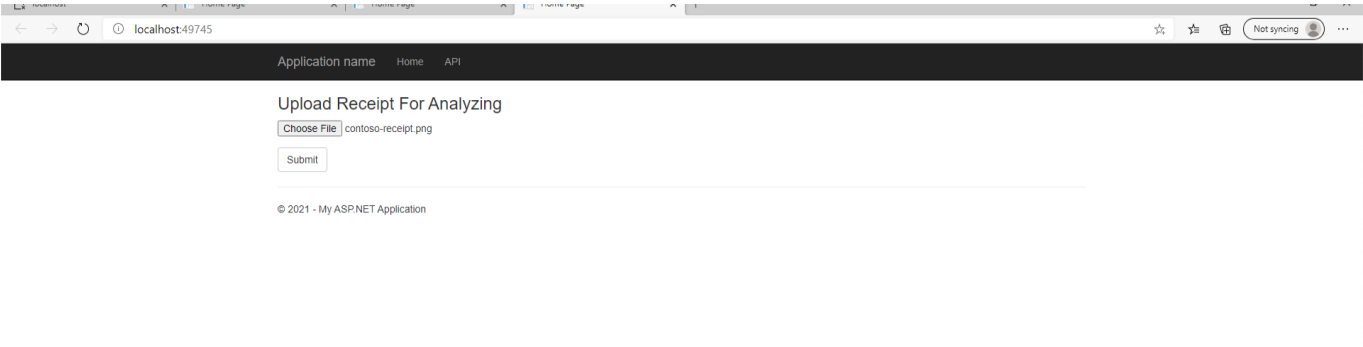
Task 7

Sequence Diagram

Refer to [sequence-diagram.png](#).

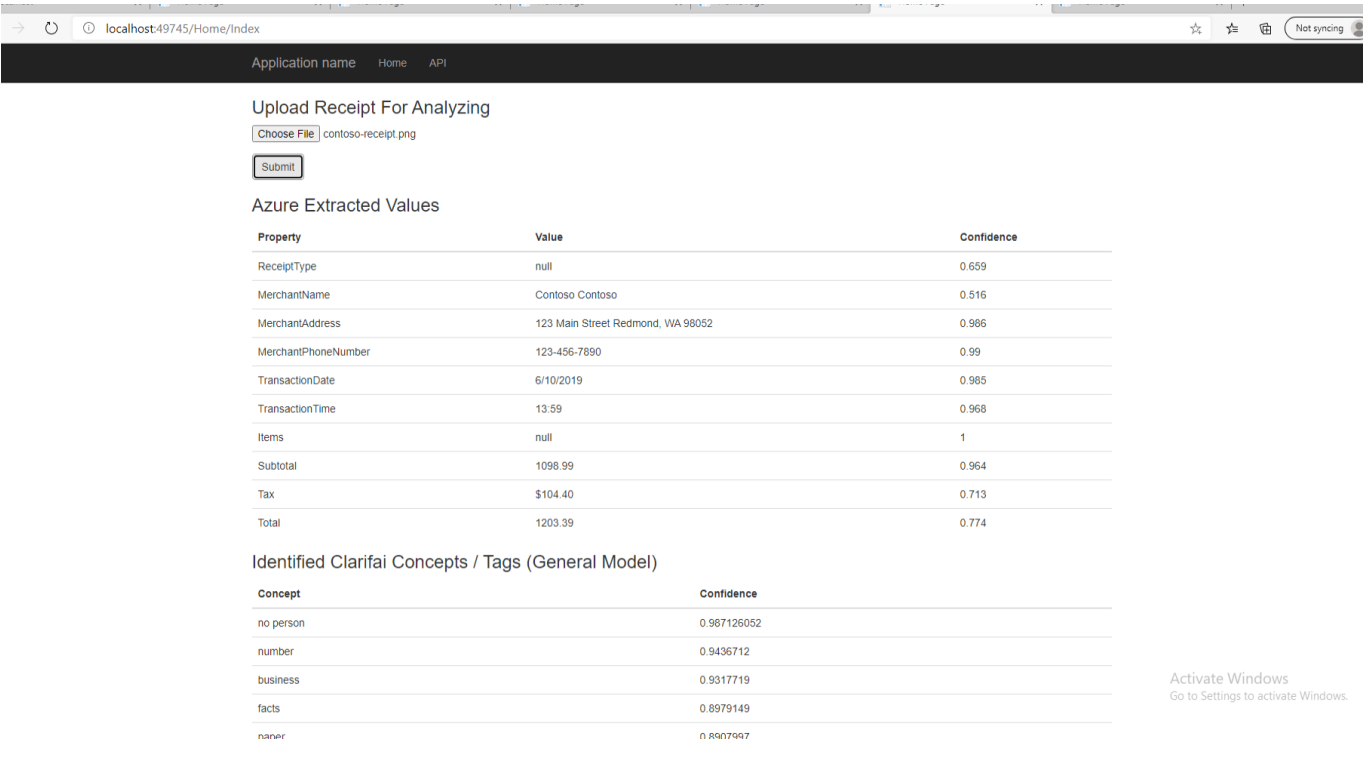
Usage

1. Upload an image



2. Click on Submit and wait for it to complete

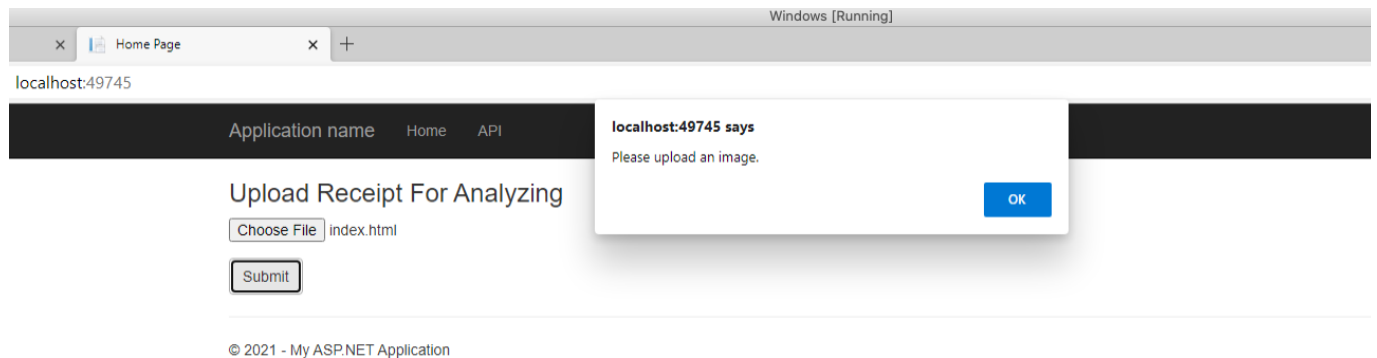
3. View the results



A failure alert is shown if the form submit request fails after multiple retries



There is client side validation to check that the file is an image before submitting.

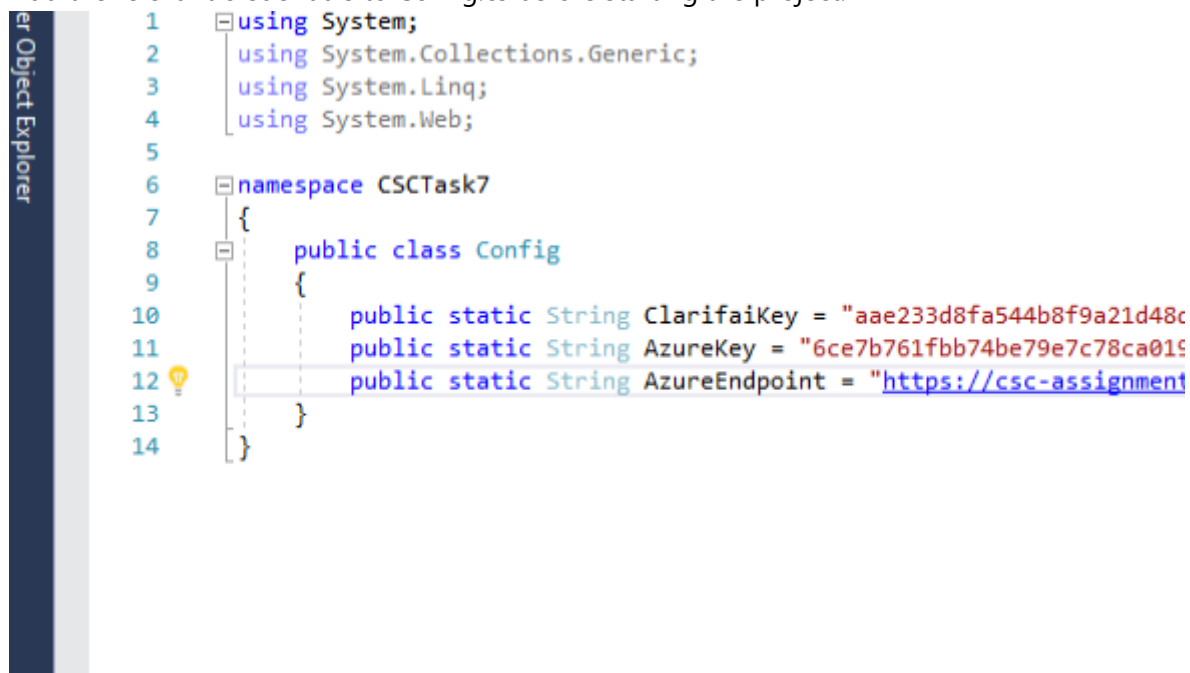


Server-side validation is also present - if the file is not present or is a non-image, **400 Bad Request** will be sent (see the sequence diagram).

Set up Guide

This project relies on Clarifai to identify image concepts and Azure Cognitive Services to extract receipt values.

Add the relevant credentials to Config.cs before starting the project:



You can create a Clarifai account to create a Clarifai application to get the Clarifai API key here:
<https://www.clarifai.com/>

For the `ClarifaiReceiptModelId` variable, you will need to fill in a custom model id used to identify whether an image is a receipt or not.

Create a custom Clarifai model (Context-Based Classifier):

portal.clarifai.com/users/f005kuj6phu9/apps/fd929e63a1c14f8999c364dc60964a9b/model-mode/create

Create a custom Model

INPUT

← All

OUTPUT

→ All

TRAINABLE

☐ All

ID: EMBEDDING-CLASSIFIER

Context-Based Classifier

Classify objects, descriptive words and topics in images and video frames based on the embedding model that has indexed them in your app. Since the embedding models were trained on massive amounts of data, this model type can learn new things very quickly and with minimal training data.

⇒ embeddings
⇒ concepts

ID: CLUSTERER

Clusterer

Cluster semantically similar frames together in embedding space for good visual search or for grouping you the need for annotated content.

⇒ embeddings
⇒ clusters

ID: CONCEPT-SYNONYM-MAPPER

ID: ANNOTATION-WRITER

There should be only one concept under the custom model - receipt.

MODEL ID: receipt-model


receipt model

EDIT MODEL DETAILS

CREATED
Jan 5, 2021 at 01:53 PM

ACTIVE MODEL
TRAIN MODEL

Concepts 1
Versions



receipt

Current Model Version

VERSION ID
a0916a42147540e19e83b9a7531c4455

CREATED
Jan 5, 2021 at 1:54 PM

STATUS
Model is trained and ready

LABELLED INPUTS	ACTIVE CONCEPTS
4	1

Train the custom model by adding positive and negative receipt images.

CONCEPT NAME
receipt

CONCEPT ID
receipt


CREATED AT
Dec 25, 2020 4:45 pm

APP ID
fd929e63a1c14f8999c364dc60964a9b

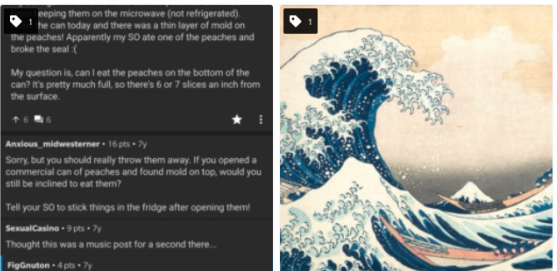
Inputs

Relations

POSITIVE EXAMPLES 3
ADD POSITIVES



NEGATIVE EXAMPLES 2
ADD NEGATIVES



You can create a free Azure Cognitive Service subscription to get the key and endpoint <https://azure.microsoft.com/en-us/services/cognitive-services/>