

```
In [ ]: import requests
import csv
```

```
In [ ]: unique_ingredients = pd.DataFrame(['Salt', 'Pepper', 'Olive oil', 'Garlic', 'Onion',
                                           'Pasta', 'Rice', 'Eggs', 'Milk', 'Butter',
                                           'Baking soda', 'Cumin', 'Coriander', 'Paprika',
                                           'Cinnamon', 'Nutmeg', 'Ginger', 'Soy sauce',
                                           'Vinegar', 'Mustard', 'Ketchup', 'Mayonnaise',
                                           'Lemon', 'Lime', 'Cilantro', 'Basil', 'Parsley',
                                           'Cheddar cheese', 'Mozzarella cheese', 'Feta cheese',
                                           'Tomato sauce', 'Canned tomatoes', 'Broth',
                                           'Quinoa', 'Potatoes', 'Carrots', 'Bell peppers',
                                           'Cauliflower', 'Mushrooms', 'Green beans',
                                           'Almonds', 'Walnuts', 'Sesame seeds', 'Sunflower seeds',
                                           'Salmon fillets', 'Ground turkey', 'Ground beef',
                                           'Coconut milk', 'Curry paste', 'Sesame oil',
                                           'Dijon mustard', 'Chili powder', 'Turmeric'])

unique_ingredients
```

```
Out[ ]:
```

|     | 0             |
|-----|---------------|
| 0   | Salt          |
| 1   | Pepper        |
| 2   | Olive oil     |
| 3   | Garlic        |
| 4   | Onion         |
| ... | ...           |
| 87  | Dijon mustard |
| 88  | Chili powder  |
| 89  | Turmeric      |
| 90  | Shrimp        |
| 91  | Cloves        |

92 rows x 1 columns

```
In [ ]: def recipe_search(ingredients):
    app_id = 'd885a755' # Replace with your Edamam API app ID
    app_key = 'ff353938975143cfd227e416c1a3fb1d' # Replace with your Edamam API app key
    recipes = []
    for ingredient in ingredients:
        result = requests.get(
            'https://api.edamam.com/search?q={}&app_id={}&app_key={}'.format(ingredient, app_id, app_key)
        )
        data = result.json()
        recipes.extend(data.get('hits', []))
    return recipes

def save_to_csv(recipes, ingredients):
    if recipes:
```

```
file_name = "all_recipes.csv"

with open(file_name, mode='a', newline='', encoding='utf-8') as file:
    writer = csv.writer(file)
    writer.writerow(['Recipe', 'URL', 'Ingredients'])

    for recipe in recipes:
        recipe_info = recipe['recipe']
        recipe_name = recipe_info['label']
        recipe_url = recipe_info['url']
        ingredients = "\n".join(recipe_info['ingredientLines'])
        writer.writerow([recipe_name, recipe_url, ingredients])
        writer.writerow([])

    print(f"Recipes saved to {file_name}")
else:
    print("No recipes found")

def run():
    ingredients = unique_ingredients
    results = recipe_search(ingredients)
    save_to_csv(results, ingredients)

if __name__ == "__main__":
    run()
```

Recipes saved to all\_recipes.csv