

tripleten

Automation of Weather-Based Sales and Staffing Decisions

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AI Automation | Project 5

Problem

The demo company in this project operates a coffee and ice cream kiosk right by the beach in Miami, Florida. The weather in coastal cities can change quickly, and this can have an impact on your business:

- Hot and humid mornings can bring surges in iced coffee and gelato sales.
- Windy days near the coast mean fewer beachgoers and more locals grabbing comfort food.

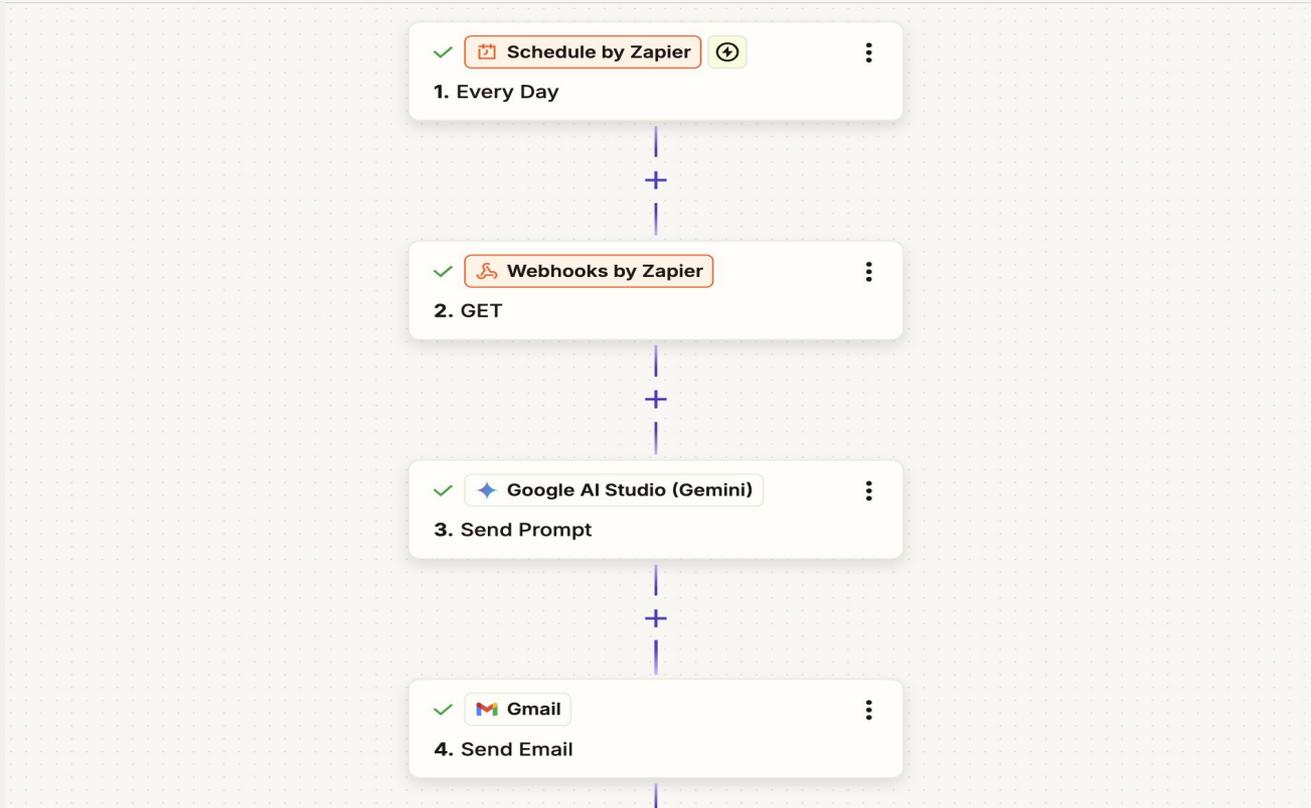
The kiosk manager currently checks forecasts manually, then decides product and staffing plans. This manual checking wastes time and delays preparation

Solution

Instead, the company wants an automated workflow that:

- Fetches the daily forecast for Miami, FL at 7:00 AM.
- Uses AI to interpret the forecast and generate three things:
- A product mix recommendation (hot drinks, cold drinks, gelato, pastries).
- A staffing suggestion based on conditions (e.g., "Add one extra for afternoon shift").
- Two short customer promo messages tailored to the weather.
- Emails the manager with a friendly summary every morning.

Workflow diagram



Workflow in action

Postman - API Call

```
GET https://api.openweathermap.org/data/2.5/weather?q=Miami,FL,US&units=imperial&appid=cadb394ee0f4197eefa7116378333dec
```

```
200 OK • 175 ms • 82
```

```
{  "coord": {    "lon": -80.1937,    "lat": 25.7743  },  "weather": [    {      "id": 803,      "main": "Clouds",      "description": "broken clouds",      "icon": "04d"    }  ],  "base": "stations",  "main": {    "temp": 86.76,    "feels_like": 97.43,    "temp_min": 83.01,    "temp_max": 89.62,    "pressure": 1012,    "humidity": 71,
```

```
GET https://api.openweathermap.org/data/2.5/weather?q=Miami,FL,US&units=imperial&appid=cadb394ee0f4197eefa7116378333dec
```

```
200 OK • 175 ms • 82
```

```
{    "temp": 86.76,    "feels_like": 97.43,    "temp_min": 83.01,    "temp_max": 89.62,    "pressure": 1012,    "humidity": 71,    "sea_level": 1012,    "grnd_level": 1012  },  "visibility": 10000,  "wind": {    "speed": 6.91,    "deg": 0  },  "clouds": {    "all": 75  },  "dt": 1757788178,  "sys": {    "type": 2,    "id": 2009435,    "country": "US",    "sunrise": 1757761560,    "sunset": 1757806050  },  "timezone": -14400,  "id": 4164138,  "name": "Miami",  "cod": 200
```

```
GET https://api.openweathermap.org/data/2.5/weather?q=Miami,FL,US&units=imperial&appid=cadb394ee0f4197eefa7116378333dec
```

```
200 OK • 175 ms • 82
```

```
"visibility": 10000,  "wind": {    "speed": 6.91,    "deg": 0  },  "clouds": {    "all": 75  },  "dt": 1757788178,  "sys": {    "type": 2,    "id": 2009435,    "country": "US",    "sunrise": 1757761560,    "sunset": 1757806050  },  "timezone": -14400,  "id": 4164138,  "name": "Miami",  "cod": 200
```

Workflow in action

1. Trigger - Schedule

1. Every Day   

Setup  > Configure  > Test 

App *

 Schedule by Zapier 

Trigger event *

Every Day 



1. Every Day   

Setup  > Configure  > Test    

Time of Day * 

7:00 AM  

Trigger on weekends? 

yes no 



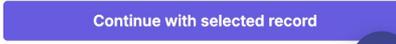
1. Every Day   

Setup  > Configure  > Test 

This day was found.
[Learn more about test records](#)

Find new records

Day A
original record pulled on Sep 13, 2025 



Workflow in action

2. Action - Webhook

2. GET

Setup > Configure > Test

App *

Webhooks by Zapier Premium Change

Action event *

GET

Continue

2. GET

Setup > Configure > Test

URL *

https://api.openweathermap.org/data/2.5/weather?
q=Miami,FL,US&units=imperial&appid=cadb394ee0f4
197eefa711637833dec1

Query String Params

Enter text or insert data... Add value set

Send As JSON

Yes No

JSON key

json

Unflatten

Yes No

Continue

2. GET

Setup > Configure > Test

Send request to Webhooks by Zapier

We'll use this as a sample for setting up the rest of your Zap.

A request was sent to Webhooks by Zapier about 3 hours ago

Data in Data out

Search item data...

Weather ID 803

Weather Main Clouds

Weather Description broken clouds

Weather Icon 04d

Edit

Retest step Continue

Workflow in action

3. Action - Google AI Gemini

3. Send Prompt   

Setup  > Configure  > Test 

App *

Google AI Studio (Gemini) 

Action event *

Send Prompt

Account *

Google AI Studio (Gemini)  

Used in 2 Zaps

Google AI Studio (Gemini) is a secure partner with Zapier. [Your credentials are encrypted and can be removed at any time.](#) You can [manage all of your connected accounts here.](#)

Continue

3. Send Prompt   

Setup  > Configure  > Test    

Model *

Gemini 1.5 Flash

System Instructions

Enter text or insert data...

Prompt *

You are helping a retail kiosk manager plan daily operations.

Business: Bayside Brews & Scoops (Miami Beach, FL)
Products: Hot beverages, iced drinks, artisan gelato, fresh pastries, grab-and-go snacks

Today's conditions:  2. Main Temp: 86.92 °F
(feels like  2. Main Feels Like: 98.87 °F),  2. W
eather Description: broken clouds,  2. Wind Spee

Continue

3. Send Prompt   

Setup  > Configure  > Test 

 →  **Send Prompt to Google AI Studio (Gemini)**
We'll use this as a sample for setting up the rest of your Zap.

 A Prompt was sent to Google AI Studio (Gemini) about 51 minutes ago

Data in Data out

Search item data...

Candidates ****PRODUCT FOCUS:****
Content ****Prioritize:**** Iced drinks (heavily stock all varieties), gelato (especially fruit flavors), and grab-and-go snacks (light, refreshing options).
Parts Text

Retest step  Edit

Continue

Workflow in action

3. Action - Google AI Gemini(con't)

Google AI Gemini Prompt

You are helping a retail kiosk manager plan daily operations.

Business: Bayside Brews & Scoops (Miami Beach, FL)

Products: Hot beverages, iced drinks, artisan gelato, fresh pastries, grab-and-go snacks

Today's conditions: {{_GEN_1757782914603__main__temp}}°F (feels like {{_GEN_1757782914603__main__feels_like}}°F),
{{_GEN_1757782914603__weather[]description}}, {{_GEN_1757782914603__wind__speed}}
mph winds, {{_GEN_1757782914603__main__humidity}}% humidity.

Based on these weather conditions and Miami tourist patterns, provide:

****PRODUCT FOCUS****: Which categories to prioritize and stock heavily?

****STAFFING****: Specific adjustment recommendation with reasoning

****PROMOTIONS****: Two messages (max 120 characters each) for morning and afternoon

Use clear, actionable language for immediate implementation.

Workflow in action

4. Action - Gmail

4. Send Email

Setup > Configure > Test

App *

Gmail

Change

Action event *

Send Email

Account *

dcllemen87@gmail.com

Used in 3 Zaps

Change

Continue

4. Send Email

Setup > Configure > Test

Subject *

Daily Plan - Bayside Brews & Scoops (Miami, FL)

Body type

Plain

Body *

Good morning, Emily!

Here's today's AI-generated business plan for Bayside Brews & Scoops:

3. Candidates Content Parts Text: **PRODUCT FOCUS...r icy treats!"

Generated automatically at 7 AM with current weather data and AI analysis.

Add signature default

Choose value...

Continue

4. Send Email

Setup > Configure > Test

Send Message to Gmail

We'll use this as a sample for setting up the rest of your Zap.

A Message was sent to Gmail about 47 minutes ago

Data in Data out

Search item data...

ID 19944d3d84533a5f

Thread Id 19944d3d84533a5f

Label Ids

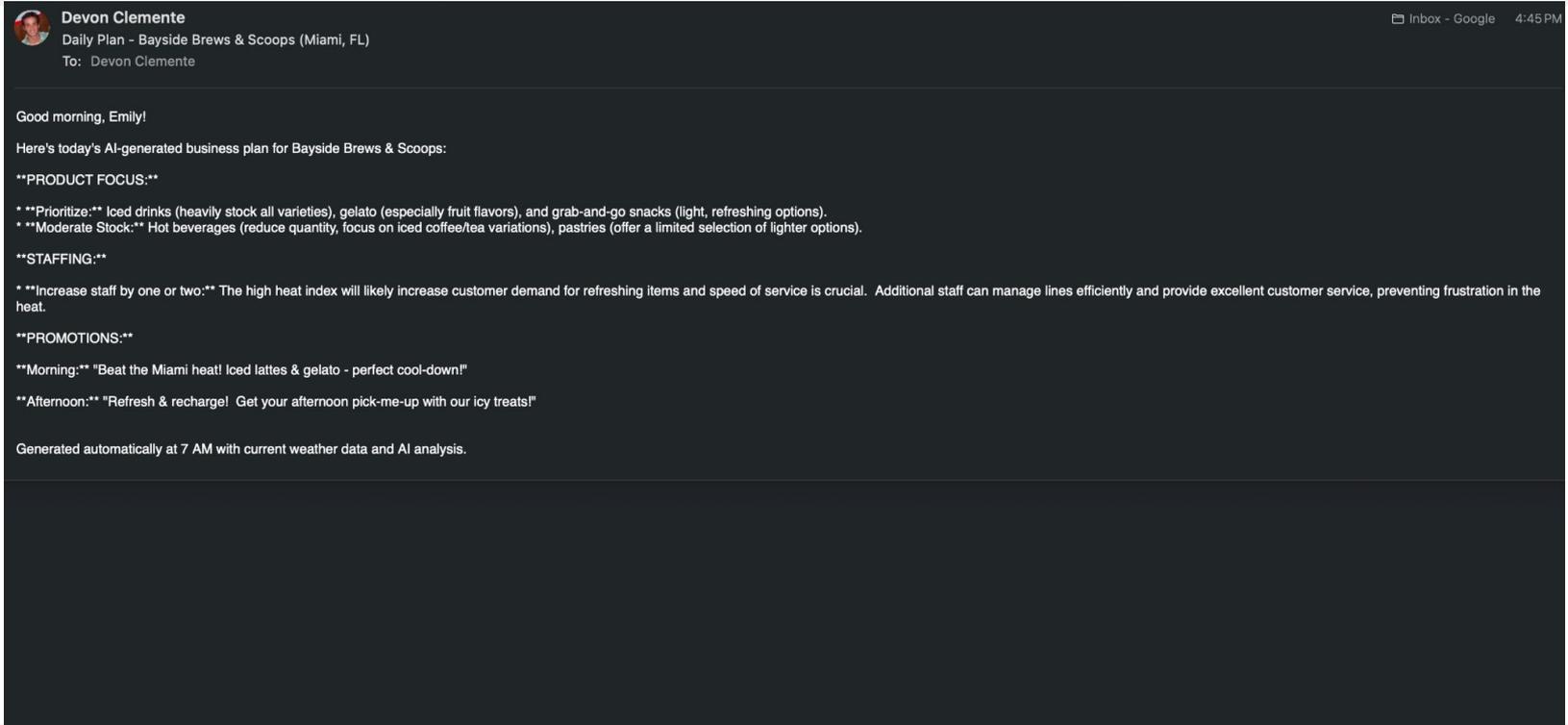
1 UNREAD

Edit

Retest step Publish

Workflow in action

4. Action - Gmail(con't)



Devon Clemente
Daily Plan - Bayside Brews & Scoops (Miami, FL)
To: Devon Clemente

Inbox - Google 4:45 PM

Good morning, Emily!

Here's today's AI-generated business plan for Bayside Brews & Scoops:

****PRODUCT FOCUS:****

- **Prioritize:**** Iced drinks (heavily stock all varieties), gelato (especially fruit flavors), and grab-and-go snacks (light, refreshing options).
- **Moderate Stock:**** Hot beverages (reduce quantity, focus on iced coffee/tea variations), pastries (offer a limited selection of lighter options).

****STAFFING:****

- **Increase staff by one or two:**** The high heat index will likely increase customer demand for refreshing items and speed of service is crucial. Additional staff can manage lines efficiently and provide excellent customer service, preventing frustration in the heat.

****PROMOTIONS:****

- **Morning:**** "Beat the Miami heat! Iced lattes & gelato - perfect cool-down!"
- **Afternoon:**** "Refresh & recharge! Get your afternoon pick-me-up with our icy treats!"

Generated automatically at 7 AM with current weather data and AI analysis.

Benefits

Eliminates Daily Manual Tasks:

-Automates the time-consuming process of checking weather forecasts, analyzing conditions, and creating daily operational plans - saving managers 30+ minutes each morning

Transforms Weather Checking into Strategic Planning:

-Upgrades the manager's existing morning weather routine by automatically converting raw weather data into actionable business recommendations for inventory, staffing, and promotions

Consistent Operations Excellence:

-Ensures daily business adjustments are made systematically and delivered reliably at 7 AM, preventing missed opportunities due to weather changes or human oversight

Improvements

Enhanced AI Prompt Engineering:

-Refine the prompt to include seasonal Miami tourism patterns and local event data for even more targeted business recommendations tailored to high-traffic periods

Multi-Location Scalability:

-Expand the system to manage multiple kiosk locations simultaneously, with location-specific weather data and customized product portfolios for different demographic areas

Real-Time Sales Integration:

-Connect the system to point-of-sale data to automatically adjust recommendations based on actual product performance, creating a feedback loop that continuously improves AI accuracy over time