

PROJECT DEVELOPMENT PHASE

DELIVERY OF SPRINT-4

Date	19 NOVEMBER 2022
TEAM ID	PNT2022TMID00846
PROJECT NAME	PERSONAL EXPENSE TRACKER APPLICATION

SPRINT 4 FUNCTIONAL REQUIREMENTS

- SEND GRID
- CHAT BOT

SEND GRID:

STEP 1: LOGIN TO YOUR SENDGRID ACCOUNT

The screenshot shows the SendGrid dashboard interface. At the top, a browser window displays the URL `app.sendgrid.com`. The dashboard features a left-hand navigation menu with the following items: Dashboard, Email API, Marketing, Design Library, Stats, Activity, Suppressions, and Settings. The main content area includes a light blue banner at the top with the heading "Ready to unlock the full potential of Twilio SendGrid?" and a subtext "Finish your account setup in order to select a paid Email API or Marketing Campaigns plan." Below this is a "Let's do it!" button. A greeting "Hello Arunkumar! Here's your recent email activity." is followed by a toggle switch set to "Wk". Below the greeting is a row of six summary cards: REQUESTS (9), DELIVERED (100.00% with 9 below), OPENED (0.00% with 0 below), CLICKED (0.00% with 0 below), BOUNCES (0.00% with 0 below), and SPAM REPORTS (0.00% with 0 below). A green upward-pointing arrow is visible in the bottom right corner of the dashboard area.

WhatsApp | Meet - cuz-tth | ibm cloud - Yahoo | Service Details - IB | IBM Db2 on Cloud | SendGrid

app.sendgrid.com

Arunkumar Manik

Dashboard

Email API

Marketing

Design Library

Stats

Activity

Suppressions

Settings

Ready to unlock the full potential of Twilio SendGrid?

Finish your account setup in order to select a paid Email API or Marketing Campaigns plan.

Let's do it!

Hello Arunkumar! Here's your recent email activity.

Wk Mo

REQUESTS	DELIVERED	OPENED	CLICKED	BOUNCES	SPAM REPORTS
9	100.00% 9	0.00% 0	0.00% 0	0.00% 0	0.00% 0

STEP 2: CLICK GET STARTED IN THAT FILL THE SENDER(ADMIN) DETAILS.

WhatsApp | Meet - cuz-tthv | ibm cloud - Yahoo | Service Details - IB | IBM Db2 on Cloud | SendGrid

app.sendgrid.com

VIEW ACCOUNT USAGE

4
2
0

12 13 14 15 16 17 18

Admin User Details

USERNAME
m.arunkumarmar12@gmail.com

EMAIL ADDRESS
m.arunkumarmar12@gmail.com

ACCOUNT IP ADDRESS

Unsubscribe Groups

Use [unsubscribe groups](#) to give your recipients control over the types of emails they want to receive.

Allowing recipients to select from groups of emails they want to receive and opt out from others helps to increase recipient engagement, decrease spam reports, and improve sender reputation.

Create Your Groups

Help Links

Setup Guide

Support

STEP 3: GO TO SETTINGS AND CLICK API KEY AND CREATE AN API NAME AND COPY IT.

WhatsApp | Meet - cuz-tthv | ibm cloud - Yahoo | Service Details - IBM | IBM Db2 on Cloud | SendGrid

app.sendgrid.com/settings/api_keys

Finish your account setup in order to select a paid plan and unlock the full potential of Twilio SendGrid. [Let's do it!](#)

Arunkumar Manik

API Keys

Create API Key

NAME	API KEY	ACTION
arun API Key ID: Obu-XaKdSsmAfnQh6c772Q	⚙️

STEP 4: DEPLOY THE CODE IN THE PROJECT.

```
def send_email(email,amount):
    from_email = Email('m.arunkumarmar12@gmail.com')
    to_email = To(email)
    subject = 'IMSR'
    def send_email(email,amount):
        from_email = Email('m.arunkumarmar12@gmail.com')
        to_email = To(email)
        subject = 'Personal expense tracker'
        content = Content("text/plain", f"your balance is {balance}".format(balance=amount))
        mail = Mail(from_email, to_email, subject, content)

    try:
        sg = SendGridAPIClient('SG.Obu-XaKdSsmAfnQh6c772Q.2XPa1lUppzUqF9gd-_k8f0--aSf18KswNKPpy9C4GQxA')
        response = sg.send(mail)
        print(response.status_code)
        print(response.body)
        print(response.headers)
    except Exception as e:
        print(e)

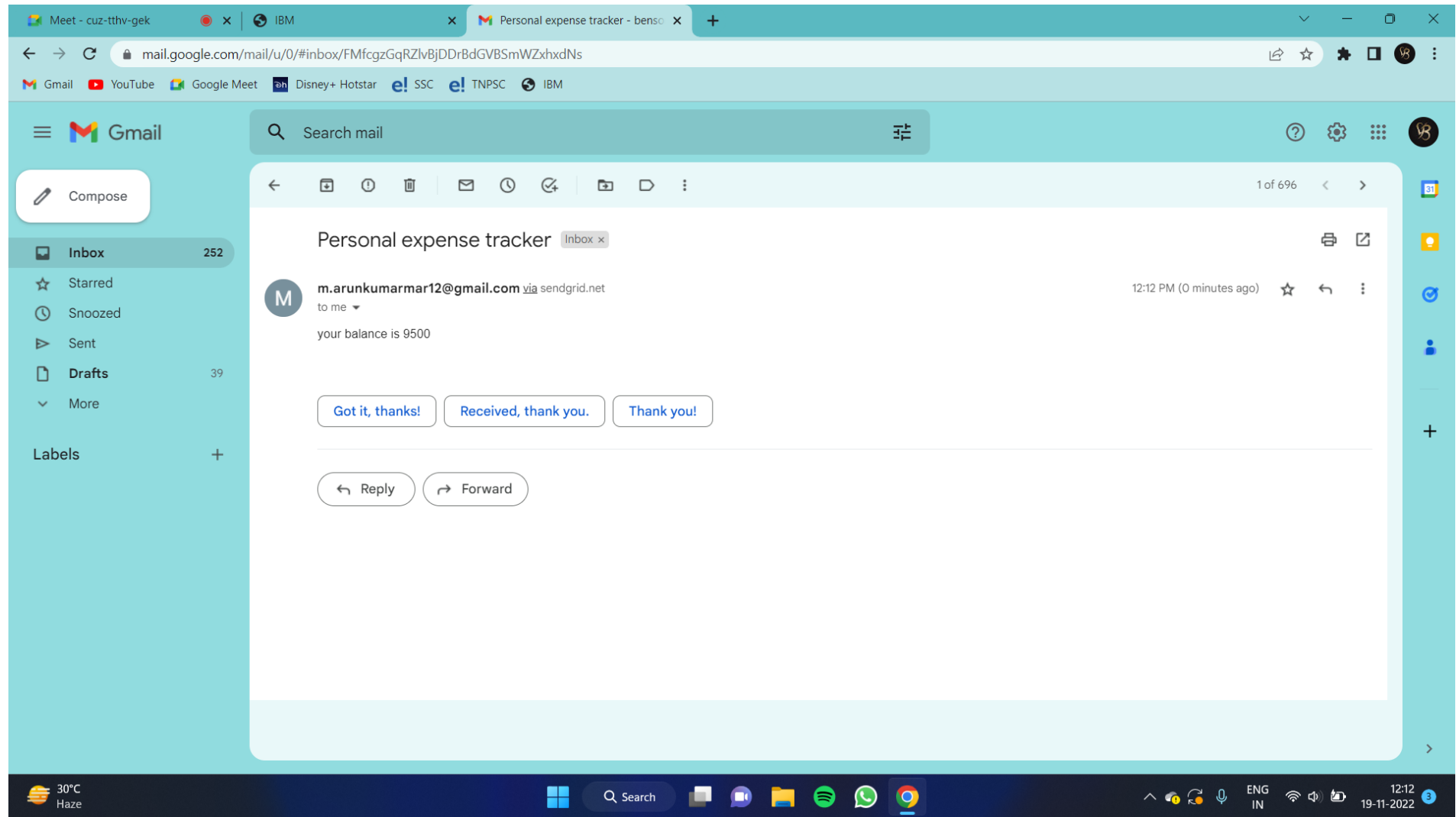
def check_balance(amount):
    send_email(session['response'],amount)

    content = Content("text/plain", f"registered sucessfully".format(balance=amount))
    mail = Mail(from_email, to_email, subject, content)

    try:
        sg = SendGridAPIClient('SG.Obu-XaKdSsmAfnQh6c772Q.2XPa1lUppzUqF9gd-_k8f0--aSf18KswNKPpy9C4GQxA')
        response = sg.send(mail)
        print(response.status_code)
        print(response.body)
        print(response.headers)
    except Exception as e:
        print(e)

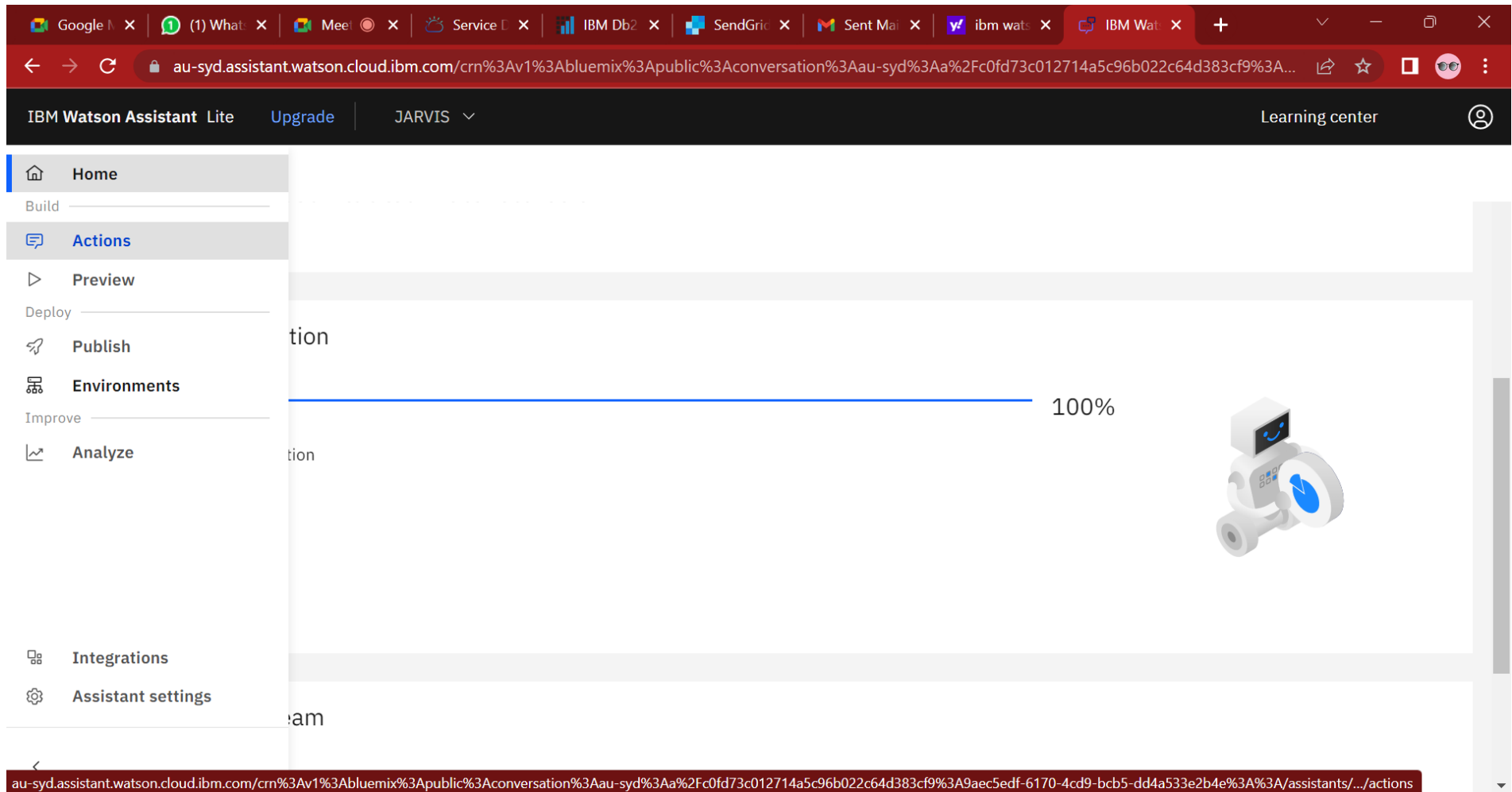
def check_balance(amount):
    send_email(session['response'],amount)
```

STEP 5: CHECK THE MAIL ID TO SEE THE MAIL.



CHATBOT :

STEP 1: LOGIN TO WATSON ASSISTANT AND CREATE A CHAT BOT WITH THE REQUIRED ACTIONS



The screenshot displays the IBM Watson Assistant Lite web interface. The browser's address bar shows the URL: `au-syd.assistant.watson.cloud.ibm.com/crm%3Av1%3Abluemix%3Apublic%3Aconversation%3Aau-syd%3Aa%2Fc0fd73c012714a5c96b022c64d383cf9%3A...`. The page header includes the text "IBM Watson Assistant Lite", an "Upgrade" link, the name "JARVIS" with a dropdown arrow, and a "Learning center" link. A left-hand navigation menu is visible, containing the following items: "Home", "Build", "Actions" (highlighted in blue), "Preview", "Deploy", "Publish", "Environments", "Improve", "Analyze", "Integrations", and "Assistant settings". The main content area shows a progress bar at 100% and a 3D robot icon. The URL in the address bar is truncated at the end to `.../actions`.

STEP 2: GOTO ENVIRONMENTS AND THEN CLICK WEB CHAT THEN GOTO EMBED GET THE SCRIPT TO DEPLOY IN THE PROJECT

The screenshot shows a web browser window with multiple tabs. The active tab is titled "IBM W" and shows the URL `au-syd.assistant.watson.cloud.ibm.com/crn%3Av1%3Abluemix%3Apublic%3Aconversation%3Aau-syd%3Aa%2Fc0fd73c012714a5c96b022c64d383cf9%3A...`. The page header includes "IBM Watson Assistant Lite", an "Upgrade" button, a "JARVIS" dropdown, and a "Learning center" link. The main content area is titled "Web chat" with a "Draft" label. Below this is a navigation bar with tabs: "Launcher", "Home screen", "Live agent", "Suggestions", "Security", and "Embed" (which is selected). The "Embed" tab displays the heading "Embed on your website" and the text "Ready to launch? It's as easy as copy and paste. [Learn more](#)". A code block contains the following JavaScript code:

```
</script>
window.watsonAssistantChatOptions = {
  integrationID: "c2c9a400-7a72-450d-a999-8a644f36dd44", // The ID of this integration.
  region: "au-syd", // The region your integration is hosted in.
  serviceInstanceID: "9aec5edf-6170-4cd9-bcb5-dd4a533e2b4e", // The ID of your service instance.
  onLoad: function(instance) { instance.render(); }
};
setTimeout(function(){
  const t=document.createElement('script');
  t.src="https://web-chat.global.assistant.watson.appdomain.cloud/versions/" + (window.watsonAssistantChatOp
  document.head.appendChild(t);
});
</script>
```

Below the code block is a "Show more" link with a downward arrow.

STEP 3: PASTE THE SCRIPT INSIDE THE HEAD TAG AND THEN RUN THE PROJECT.

127.0.0.1:5000/dashboard

Profile Expenses Display Add Balance Logout

Services that we provide:

- Medical Expense
- Educational Expense
- Rent Expense
- Travel Expense
- Food Expense

Personal Income-Expense Tracker is an excel template display in to easily manage your finance by recording your monthly incomes and expenses. Our expense trackers allow you to build a personal budget & see your cash balance. Getting on top of your finances comes with huge pay offs & peace of mind.

"Beware of little expenses. A small leak will si

Copyright ©-All rights are reserved

Watson Assistant

Welcome to Personal Expense Tracker

Profile Generate your report

Type something...

Built with IBM Watson®