

Accion  
**INNOVATION**  
**SUMMIT 2023**

02-05 March 2023,  
Sofitel Dubai  
The Palm Jumeirah  
Dubai

INNOVATION SUMMIT 2023











## Ramesh Narasimhan

### Global Chief Delivery Officer

Head of India operations for projects and CDL-based services at Accion Labs. In addition, lead the mobility business for Accion Labs. Over 16+ years of experience in IT and worked with multinational clients, building strong professional relationships with industry leaders, mentoring and grooming a highly technical team, identifying creative business models, and implementing various business strategies.





# Generative Pre-trained Transformer (GPT)



# What is Generative AI?



what is chatgpt?

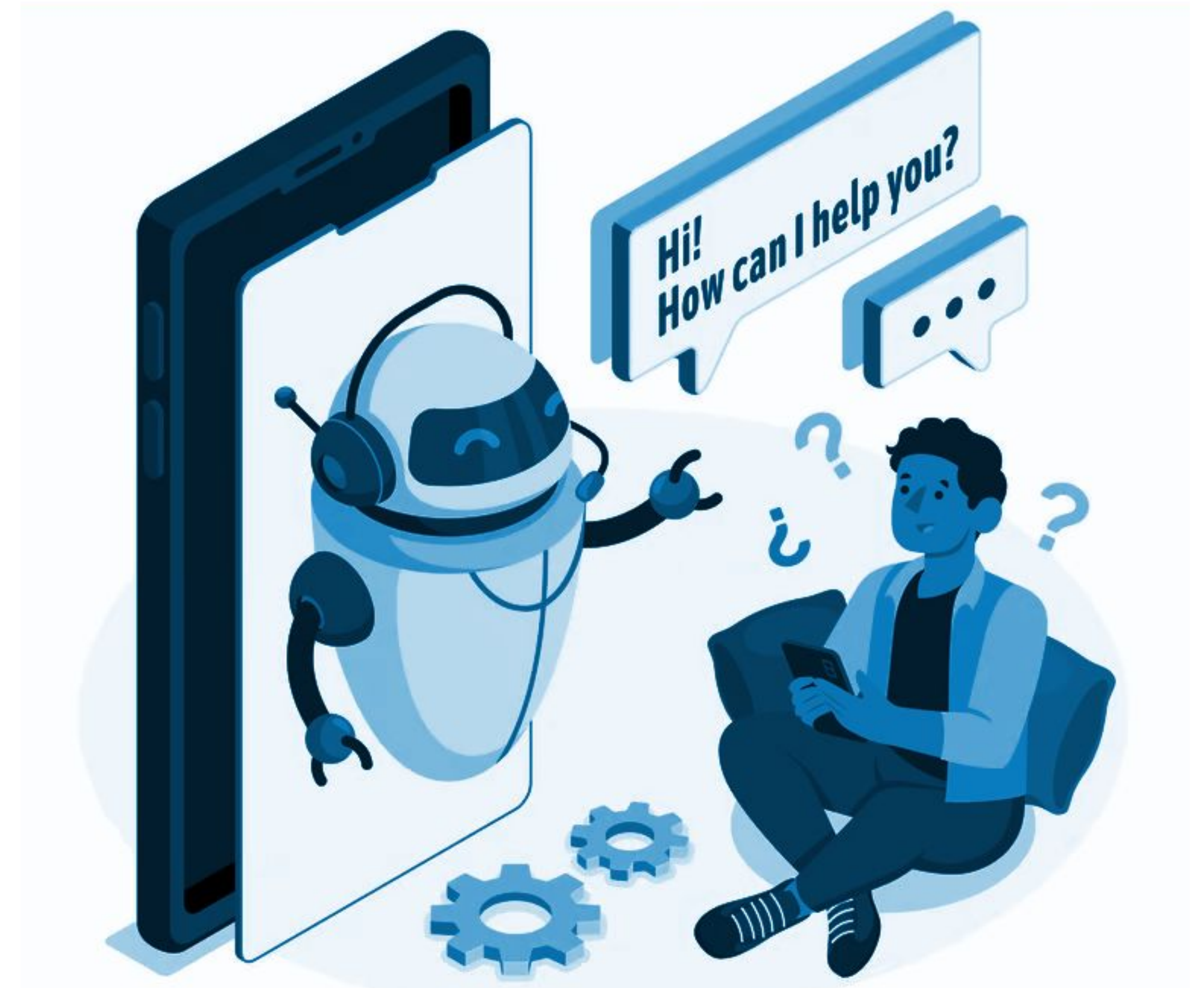


ChatGPT, is a large language model developed by OpenAI.

It has been trained on a vast amount of data and use deep learning algorithms to understand and generate natural language.

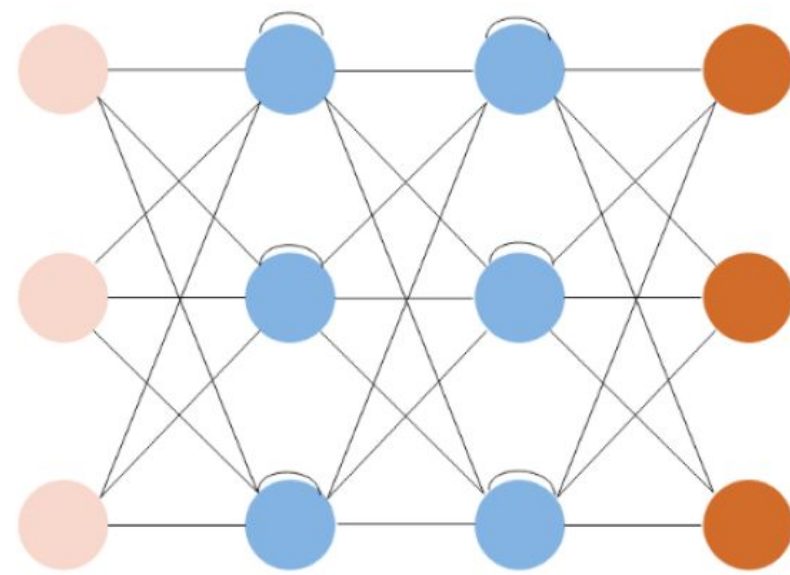
It is designed to answer a wide range of questions, engage in conversations, and provide assistance to users in various domains.

Overall, ChatGPT Built on the architecture of the **GPT** (Generative Pre-trained Transformer) series of models, based on the **transformer architecture** and works by using **deep learning techniques** to understand **natural language** and generates responses that are **appropriate** and relevant to the **context** of the conversation.

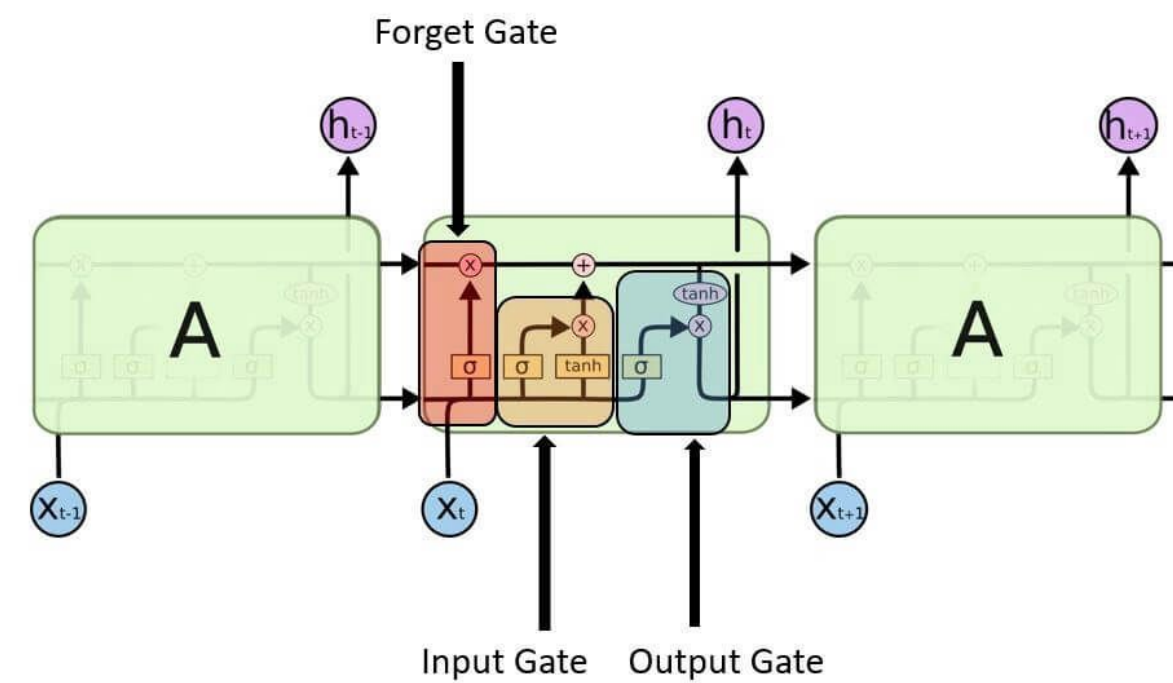




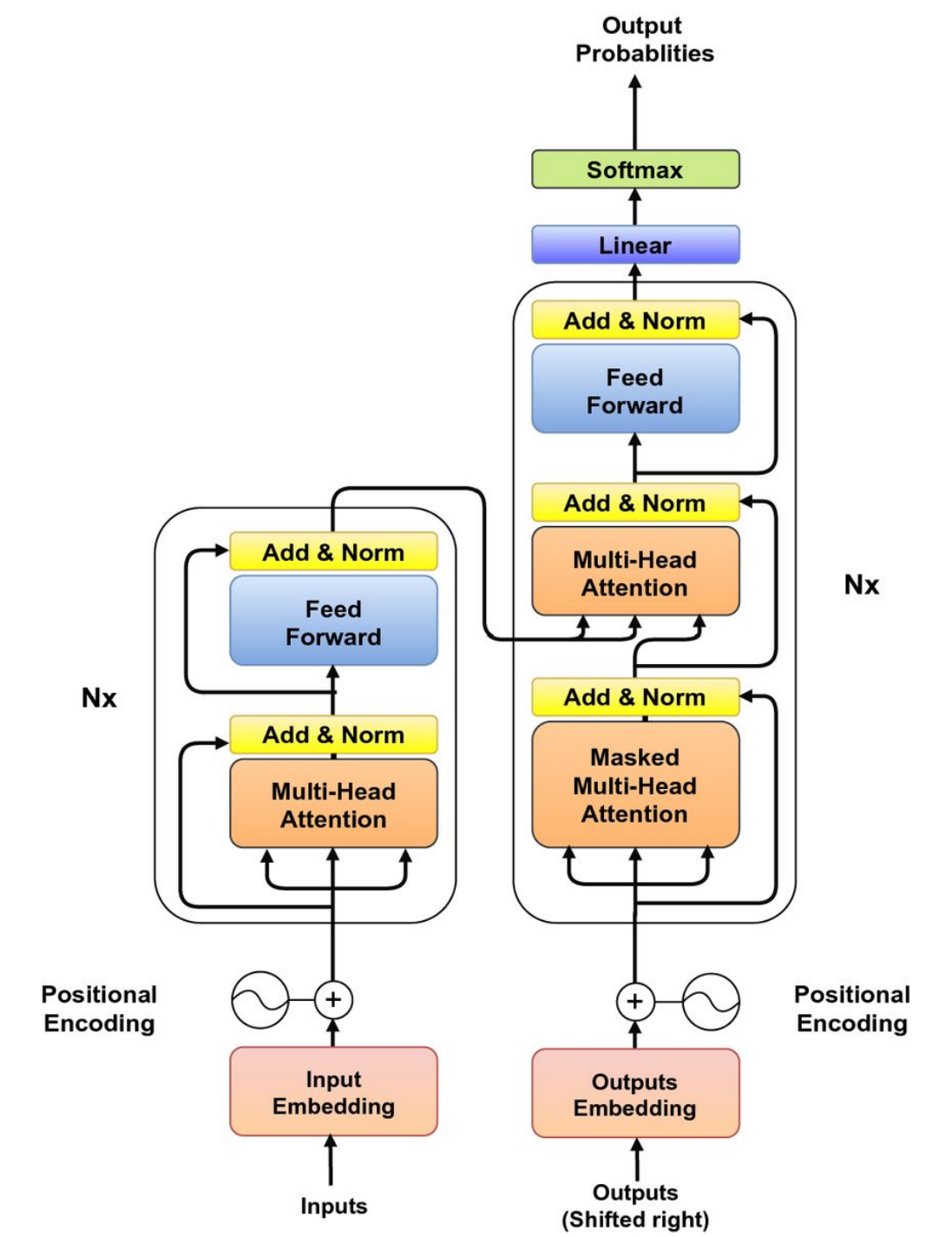
RNN



LSTM



Transformer





Accion

**INNOVATION**  
**SUMMIT 2023**

Accionlabs



# Business Owner & Artificial Intelligence



# Proliferation of Generative AI Tools - Business



**Employee / Candidate Management**

Eightfold.ai, Skillate, Entelo

**Legal, Contracts**

Lynn, eBrevia, Lawgeex

**Managing Sales**

Dealcode.ai, Honeybook

**Reachouts**

Warmer.ai, ChatGPT

**Website**

Wix, Firedrop

**Business Mission Statement**

Copy.ai, Ramp, Honeybook

**Brand name and Logo**

Name - Namelix.ai, designs.ai, looka.com

Logo - Logo.ai, smashinglogo.ai

**Managing Business Growth  
by leveraging AI Tools**



# Brand name Generation

← Create New Names

☰ Browse Names

♥ Saved

ACTIONPOINT

ActionExcess

actionpro

ACTIONLABS

EVOACTION

Actionable

ActionLab

AXIOM

OcularLabs

InnovationLabs

SOLUTELABS

LabInnovate

Technologium

AXIOMLAB

ACCELERATELABS



# Logo generation



## Enter your logo name

You can always make changes later

Continue →

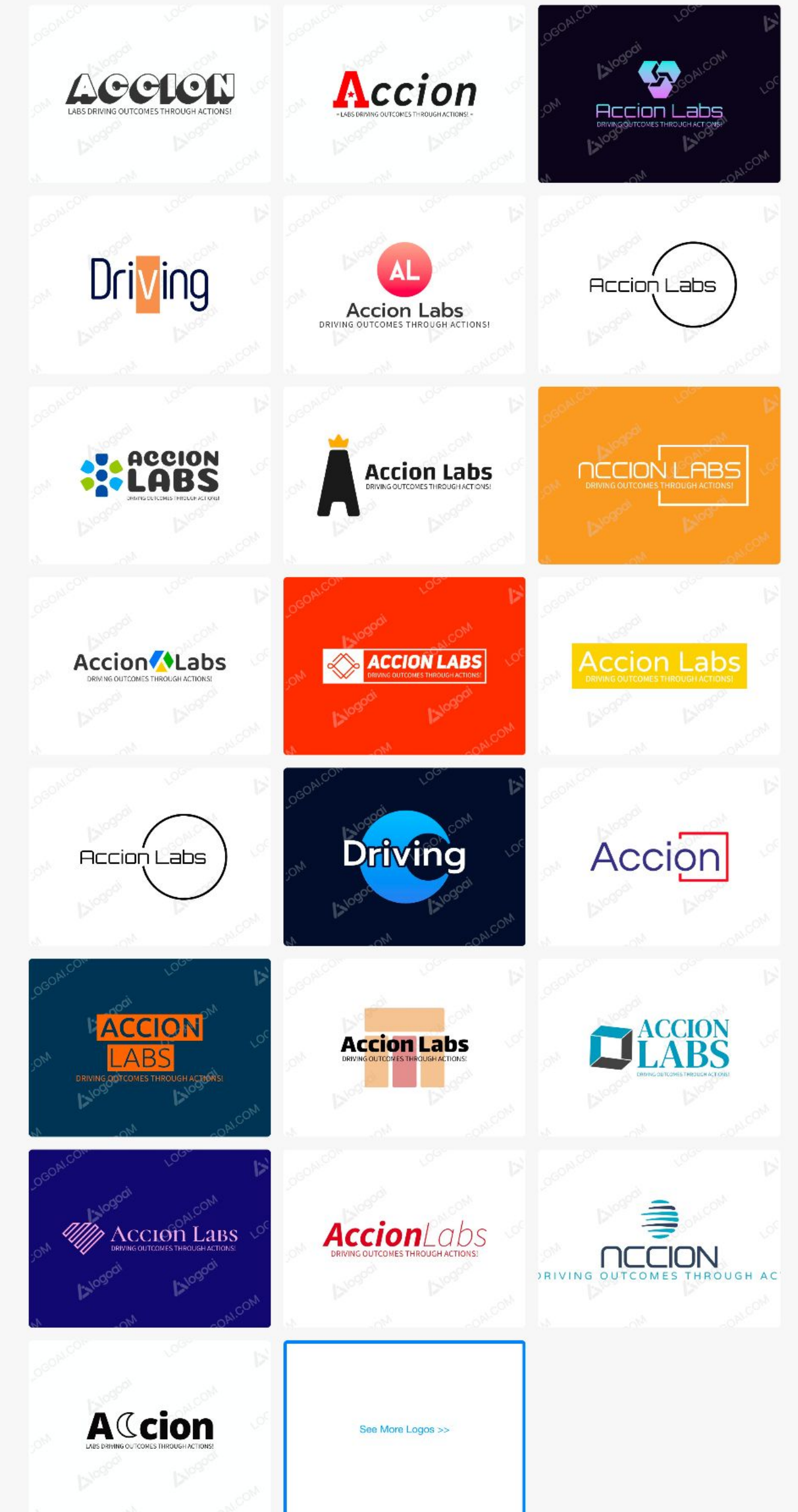
Logo Name

Accion Labs

Slogan (Optional)

Driving outcomes through actions!

Click on the logo you like to edit





# Mission & Vision Statement generation

2023-02-25 Untitled (2)

## Product Descriptions

Create

Saved (0)

Accion Labs is a product services firm focused on innovation delivery lifecycle using emerging technologies and driving outcomes through actions. We offer a broad range of services to accelerate time to market, reduce the cost of innovation, improve customer experience and increase customer loyalty.

Copy

Save

More Like This

Remove

44 words / 300 chars

Editor

Accion Labs is a product services firm focused on innovation delivery lifecycle using emerging technologies and driving outcomes through actions. Our people are passionate about our work and the impact we have on our clients and customers.

Copy

Save

More Like This

Remove

37 words / 239 chars

Accion Labs is a product services firm focused on innovation delivery lifecycle using emerging technologies and driving outcomes through actions. Our purpose is to be the leading provider of innovative solutions for the data-driven transformation of enterprises. The company offers an unparalleled portfolio of services in Data Science, Artificial Intelligence and Analytics, Solutions Engineering, Product Development and UX/UI Design



# Website Creation

- ✓  
New product on its way  
We make sure that all of our new inventory is carefully coded and checked off.
- ✓  
The big to do's  
We have a comprehensive accomplishment system allowing every new employee complete transparency.
- ✓  
The important things  
Keeping all of the small details checked off is part of our weekly list.
- ✓  
Getting Things Done  
Making sure our shop is perpetually moving forward and evolving.

## Building A Business

### Our Beginnings



It was a long road to get to where we are, but where we started was such a different place. It came from a dream about what we wished to accomplish, what was driving us, and what we wanted to add to the world at large. It was something that seemed so small at first, but once we realized that it wasn't just important to us, but that it would affect the world in a positive way, we knew that we had to push our business model forward. To make a fabric softener that would not only make clothing softer, but would actually alleviate sensitive skin conditions due to granting a moisturizing factor that would be released on the first wear.

### New Email Wizard

1 **Who We Are**  
What are we pitching?

2 **Goal**  
What should this email to lead to?

3 **Personalization Type**  
Personalize using LinkedIn or Website?

Enter your recipient's LinkedIn profile username or [switch to website](#)

linkedin.com/in/  [Write My Email!](#)

**KD** **Kinesh Doshi**

[View profile](#)

Co-Founder & CEO, Accion Labs | Pittsburgh, Pennsylvania, United States

Leadership | Cloud Computing | Business Development

#### Achievements

- Previously worked at Ypo
- Same job for 11 years

#### Email Score Beta

**96**

Readability: 98% | Personal: 93% | Engaging: 98%

Hey Kinesh,

I love that you have 25+ plus years in the software and tech industry - it's great to be able to build a company up over that time. Also, having an engineering/dev center is important as you can develop your own technology and streamline all your processes. ✨

Wanted to reach out because we're working with folks to in product engineering through emerging technology, I think this could match up well to what you're currently doing.


What does your calendar look like Thursday or Friday for a ~30 minute call?


Relton

[Edit](#) [Send via](#)



# Lead Gen - Sales Emails

 write a creative cold email to Kinesh Doshi

 Subject: Introduction and Possible Collaboration 👍 🗨️

Dear Kinesh,

I hope this email finds you well. My name is [Your Name], and I am reaching out to you today because I am interested in discussing a potential collaboration between our respective fields.

After researching your impressive work in the field of [Kinesh's expertise], I was intrigued by your innovative approach and the way you have been able to solve complex problems. As someone who is also passionate about [your area of expertise], I believe that we could learn a lot from each other.

I would love the opportunity to speak with you about how our shared expertise and knowledge could potentially benefit one another. I have a few ideas about how we could work together to create something truly remarkable.

Would you be available for a brief chat at some point in the next week or so? I would love to discuss this further and learn more about your perspective on this matter.

Thank you for your time, and I look forward to hearing back from you.

Best regards, ↻ Regenerate response



# Managing Contracts and Legal Documents

← All Files > Employment Agreement between S&W Seed Co. and Daniel Karst...

Index ▾ Export ↻ ↶ ↷ File Saved Unreviewed ▾ < >

Type Employment Agmt. ✎

Tags ERISA review Tax to Review ✎

Assignee Audrey Dotson ✎

Modified 7/7/20 6:39 AM by Sam Elam

Form Employment ✎

Summary

Collapse Fields  Expand Fields

Document Name: [👤] (?)

- EMPLOYMENT AGREEMENT (Page 1) ✎ 🗑️
- [ ] (+)

Date: [👤] (?)

- the 1st day of July, 2012 (Page 1) ✎ 🗑️
- [ ] (+)

Employee: [👤] (?)

EXHIBIT 10.1

**EMPLOYMENT AGREEMENT**

This Agreement is made and is effective as of the 1st day of July, 2012, by and between S&W Seed Company, a Nevada corporation (the "Company") and Daniel Z. Karsten ("Executive"). Together, Executive and the Company are sometimes referred to as the "Parties."

WHEREAS, prior to the date hereof, Executive has been employed by the Company in the capacities of Executive Vice President and Chief Operating Officer on an at will basis without an employment contract; and

WHEREAS, given Executive's key role in the Company's business operations, it is deemed to be in the best interests of the Company to enter into an employment agreement with Executive.

NOW THEREFORE, in consideration of the material advantages accruing to the Parties and the mutual covenants contained herein, and intending to be legally and ethically bound hereby, the Company and Executive agree as follows:

**1. Duties and Scope of Employment**

(a) Positions and Duties. Executive will serve, at the pleasure of the Board, as Executive Vice President and Chief Operating Officer of the Company and shall report to the Company's Chief Executive Officer and Board of Directors (the "Board"). As of the date of this Agreement (the "Effective Date"), Executive will be considered a full-time employee of the Company. In the capacities of Executive Vice President and Chief Operating Officer, Executive will render such business and professional services in the performance of his duties, consistent with Executive's position within the Company. Executive will report solely and directly to the Chief Executive Officer and/or the Board.

1 of 10 any under this



# Candidates and Employee Management

**HireVue** Home Positions Evaluations Candidates Reports

Call Center Representative Santa Barbara - REQ123456789

**REUSED** Jake Bardot

Status: ? In review

Ratings Q1: ★★★★★ (Avg 4.25)

Section 1  
Q1 Tell me about a time when you solved a problem for a customer in a way that exceeded his or her expectations. Please describe the situation, your actions, and the outcome.

enter a note...  
Add Note

Recommendation  
No Maybe Yes

Done Evaluating

Top Tier  
Middle Tier  
Bottom Tier  
Unscored



# Candidates and Employee Management

**HireVue** Home Positions Evaluations **Candidates** Reports

Overview  
Evaluator Summary  
**HireVue Assessment**  
CodeVue  
Multiple Choice  
Rating  
Recommendation  
Evaluator Notes

**Jake Bardot**

**Cognitive Ability**  
Approaches problems analytically, and quickly absorbs and interprets new information. Is a logical thinker with exceptional reasoning abilities.

Novice	Developing	Intermediate	<b>Advanced</b>	Expert

**Reasoning** ⓘ

Novice	Developing	Intermediate	<b>Advanced</b>	Expert

**Mental Agility** ⓘ

Novice	Developing	<b>Intermediate</b>	Advanced	Expert

**Visuospatial Ability** ⓘ

Novice	Developing	Intermediate	Advanced	<b>Expert</b>

**Numerical Ability** ⓘ

Novice	Developing	<b>Intermediate</b>	Advanced	Expert



Generative AI tools have matured so that a lot of drudgery involved in digital knowledge work will be reduced significantly





Accion

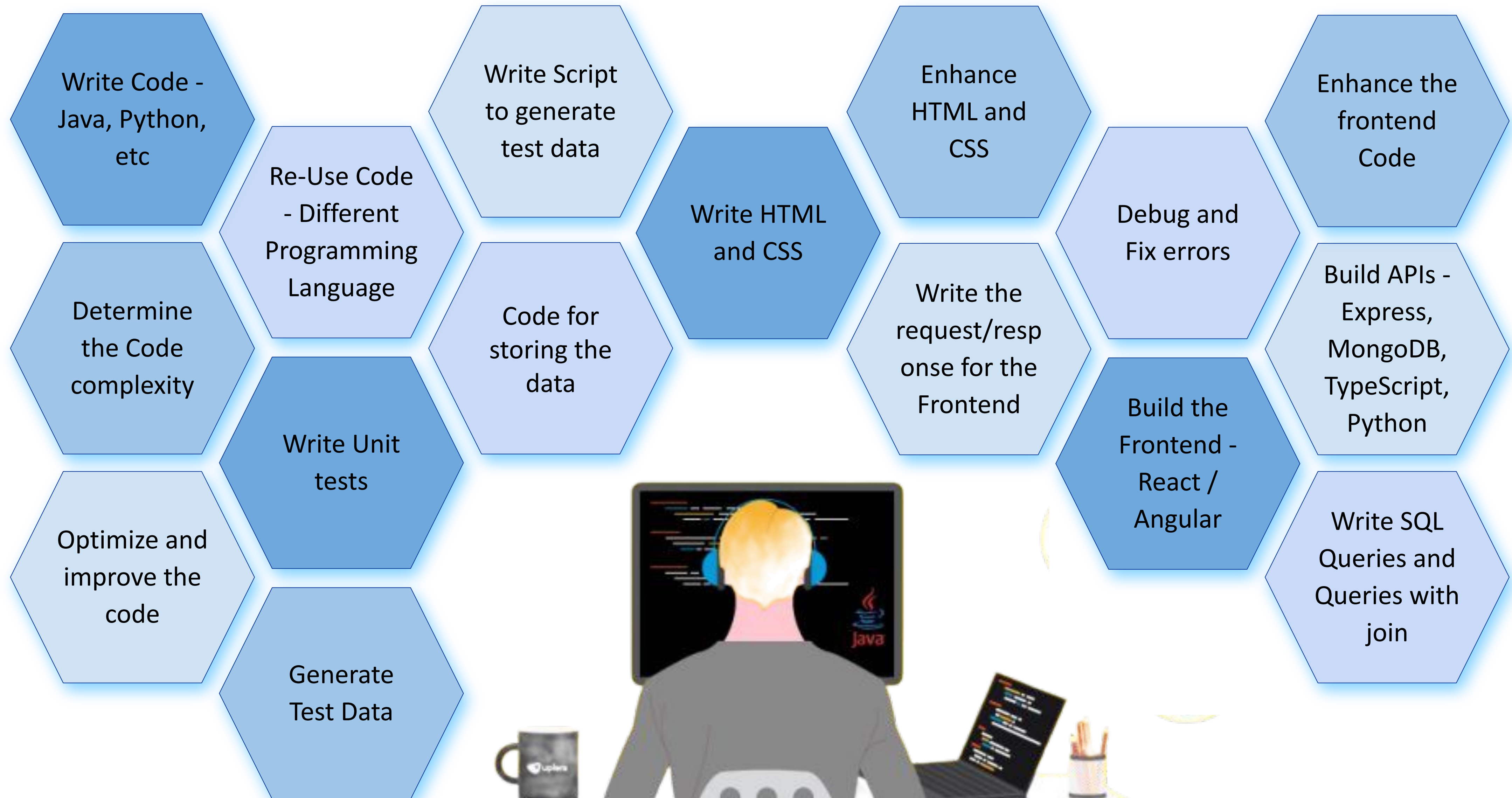
**INNOVATION**  
SUMMIT 2023

Accionlabs



# Developer & Artificial Intelligence

# Developer Activities







write a python function for generating a random password



Sure, here is an example Python function for generating a random password:



```
python Copy code  
  
import random  
import string  
  
def generate_password(length):  
    """  
    Generate a random password of a specified length.  
  
    Args:  
        length: The length of the password to generate.  
  
    Returns:  
        A string containing a random password.  
    """  
    characters = string.ascii_letters + string.digits + string.punctuation  
    password = ''.join(random.choice(characters) for _ in range(length))  
    return password
```

Here's an example usage of the function:

```
python Copy code  
  
>>> generate_password(10)  
'?w5$B8^vZ#'
```

This would generate a random password with a length of 10 characters, which might look something like `?w5\$B8^vZ#`.



what is the time complexity of this function



The time complexity of the `generate_password` function depends on the length of the password it generates. Specifically, it has a time complexity of  $O(n)$ , where  $n$  is the length of the password.



This is because the function uses a loop to generate the password, which runs  $n$  times (where  $n$  is the length of the password) to generate each character of the password. Inside the loop, the `random.choice` method is used to select a random character from the `characters` string. Since the `random.choice` method has a time complexity of  $O(1)$ , the overall time complexity of the loop is  $O(n)$ .

Therefore, the time complexity of the `generate_password` function can be expressed as  $O(n)$ , where  $n$  is the length of the password.



# Writing Unit Tests



write unit tests for this function



Sure, here are some unit tests for the `generate\_password` function:



python

Copy code

```
import unittest
import string
from random_password_generator import generate_password

class TestGeneratePassword(unittest.TestCase):

    def test_password_length(self):
        password = generate_password(10)
        self.assertEqual(len(password), 10)

    def test_password_characters(self):
        password = generate_password(20)
        allowed_characters = string.ascii_letters + string.digits + string.punctuation
        for character in password:
            self.assertIn(character, allowed_characters)

    def test_multiple_passwords(self):
        password1 = generate_password(8)
        password2 = generate_password(8)
        self.assertNotEqual(password1, password2)
```

Regenerate response





how can i improve this code?

```
Fruits = ["apple", "banana", "cherry", "kiwi", "mango"]
newlist = []
```

```
for x in fruits:
    if "a" in x:
        newlist.append(x)
```

```
print(newest)
```



The code you provided looks good and achieves its intended purpose of filtering fruits containing the letter "a" and appending them to a new list. However, there are a few ways you could improve it:

1. Use more descriptive variable names: Using more descriptive variable names can make your code more readable and easier to understand. For example, you could rename `newlist` to `fruits\_with\_a`.
2. Use list comprehension: You can use list comprehension instead of a for loop to make the code more concise and expressive. Here's an example:

```
python Copy code
fruits = ["apple", "banana", "cherry", "kiwi", "mango"]
fruits_with_a = [fruit for fruit in fruits if "a" in fruit]
print(fruits_with_a)
```

3. Avoid hardcoding the condition: Instead of hardcoding the condition ` "a" in x`, you could make it more flexible by passing it as a parameter to a separate function. For example:

```
python Copy code
def contains_character(word, character):
    """
    Check if a word contains a given character.

    Args:
        word: A string representing a word.
        character: A character to search for in the word.

    Returns:
        True if the word contains the character, False otherwise.
    """
    return character in word

fruits = ["apple", "banana", "cherry", "kiwi", "mango"]
fruits_with_a = [fruit for fruit in fruits if contains_character(fruit, "a")]
print(fruits_with_a)
```

This approach makes the condition more flexible and reusable, since you can easily change the character you're searching for or use the same function to search for other characters in different lists of words.

Regenerate response





# Program Language Conversion



convert this python code to javascript



Sure! Here's the equivalent JavaScript code for the Python code you provided:



javascript

Copy code

```
let fruits = ["apple", "banana", "cherry", "kiwi", "mango"];
let newList = [];

for (let i = 0; i < fruits.length; i++) {
  if (fruits[i].includes("a")) {
    newList.push(fruits[i]);
  }
}

console.log(newList);
```

This JavaScript code first defines an array of fruits called `fruits` and an empty array called `newList`. It then loops through each element in the `fruits` array and checks if the current element contains the letter "a" using the `includes()` method. If it does, the current element is added to the `newList` array using the `push()` method. Finally, the `newList` array is logged to the console.

Note that the syntax and structure of JavaScript is slightly different from Python, so the equivalent code is not exactly the same. However, the logic and functionality is the same, and the JavaScript code achieves the same result as the original Python code.

Regenerate response



# Generating Test data



generate dummy data for a table called customers. Each customer should have an ID, first name, last name and city.



Sure! Here's an example of how you could generate dummy data for a `customers` table using Python:



```
python Copy code

import random

# List of possible first names
first_names = ['Alice', 'Bob', 'Charlie', 'Dave', 'Emily', 'Frank', 'Grace',

# List of possible last names
last_names = ['Adams', 'Brown', 'Clark', 'Davis', 'Evans', 'Foster', 'Garcia

# List of possible cities
cities = ['New York', 'Los Angeles', 'Chicago', 'Houston', 'Phoenix', 'Phila

# Generate 10 random customers
for i in range(1, 11):
    customer_id = i
    first_name = random.choice(first_names)
    last_name = random.choice(last_names)
    city = random.choice(cities)
    print(f"({customer_id}, '{first_name}', '{last_name}', '{city}')
```

This code defines three lists of possible first names, last names, and cities. It then generates 10 random customers by looping through the range 1-10.

Regenerate response







i don't need a python script, just give me the data



Sure! Here's an example of the dummy data for a `customers` table that you could use:



```
sql Copy code  
  
ID | First Name | Last Name | City  
---|-----|-----|-----  
1 | Alice | Adams | New York  
2 | Bob | Brown | Houston  
3 | Emily | Clark | San Antonio  
4 | Charlie | Davis | San Diego  
5 | Isabelle | Evans | Chicago  
6 | Frank | Foster | San Jose  
7 | Grace | Garcia | Phoenix  
8 | Dave | Hernandez | Dallas  
9 | Hannah | Ivanov | Philadelphia  
10 | Jack | Johnson | Los Angeles
```

Note that this is just one possible set of dummy data, and you could customize it to fit your needs.



# Code for generating and storing data



create a python class for storing these objects



Sure! Here's an example of how you could define a Python class for storing customer objects:

```
python Copy code

class Customer:
    def __init__(self, customer_id, first_name, last_name, city):
        self.customer_id = customer_id
        self.first_name = first_name
        self.last_name = last_name
        self.city = city

    def __str__(self):
        return f"({self.customer_id}, '{self.first_name}', '{self.last_name}'
```

This `Customer` class has four instance variables - `customer\_id`, `first\_name`, `last\_name`, and `city` - which correspond to the four columns in the `customers` table. The `\_\_init\_\_` method is used to set these variables when a new `Customer` object is created.

```
python Copy code

import random

# List of possible first names
first_names = ['Alice', 'Bob', 'Charlie', 'Dave', 'Emily', 'Frank', 'Grace',

# List of possible last names
last_names = ['Adams', 'Brown', 'Clark', 'Davis', 'Evans', 'Foster', 'Garcia

# List of possible cities
cities = ['New York', 'Los Angeles', 'Chicago', 'Houston', 'Phoenix', 'Phila

# Generate 10 random customers
customers = []
for i in range(1, 11):
    customer_id = i
    first_name = random.choice(first_names)
    last_name = random.choice(last_names)
    city = random.choice(cities)
    customer = Customer(customer_id, first_name, last_name, city)
    customers.append(customer)

# Print the list of customers
for customer in customers:
    print(customer)

Regenerate response
```





write the html and css code for displaying a card



Sure, here is an example of the HTML and CSS code for a simple card:



HTML:

```
html Copy code
<div class="card">
  
  <h3>Card Title</h3>
  <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce et nulla
  <a href="#" class="button">Learn More</a>
</div>
```

CSS:

```
css Copy code
.card {
  display: flex;
  flex-direction: column;
  justify-content: center;
  align-items: center;
  width: 300px;
  height: 400px;
  border: 1px solid #ccc;
  border-radius: 5px;
  box-shadow: 0px 2px 5px rgba(0, 0, 0, 0.3);
  margin: 20px;
  padding: 20px;
}

.card img {
  width: 200px;
  height: 200px;
  margin-bottom: 20px;
}

.card h3 {
  font-size: 24px;
  font-weight: bold;
  margin-bottom: 10px;
}

Regenerate response
```





add a button below the card content



Sure, you can add a button below the card content by adding another `div` element inside the `card` element, and then adding a `button` element inside that `div`.



Here's the updated HTML code:

```
html Copy code  
  
<div class="card">  
    
  <h3>Card Title</h3>  
  <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Fusce et nulla  
  <div class="card-button">  
    <a href="#" class="button">Learn More</a>  
  </div>  
</div>
```

And the corresponding CSS code:

```
css Copy code  
  
.card {  
  display: flex;  
  flex-direction: column;  
  align-items: center;  
  justify-content: center;  
  padding: 10px;  
}
```

Regenerate response ↓





when i hover my mouse over the card, i want my card to slightly slide up



You can achieve the effect of the card slightly sliding up on hover by using the `transform` property in CSS. Here's an updated version of the CSS code that adds this effect:



```
css Copy code
.card {
  /* existing styles */
  transition: transform 0.2s ease-out;
}

.card:hover {
  transform: translateY(-10px);
}


/* existing styles for other elements */
```

In this code, the `transition` property is added to the `.card` class to specify that any changes to the `transform` property should be animated over a period of 0.2 seconds with an ease-out timing function.



rewrite this code using tailwindcss



Sure, here's an example of how you could rewrite the card HTML and CSS using Tailwind CSS classes:  

```
html Copy code  
  
<div class="bg-white rounded-lg shadow-lg p-6 hover:-translate-y-1 transition duration-200">  
    
  <h3 class="text-2xl font-bold mb-2">Card Title</h3>  
  <p class="text-gray-700 text-lg mb-4">Lorem ipsum dolor sit amet, consectetur adipiscing elit.</p>  
  <div class="text-center">  
    <a href="#" class="bg-blue-500 hover:bg-blue-700 text-white font-bold py-2 px-4 rounded">Click here</a>  
  </div>  
</div>
```

In this code, we're using various Tailwind CSS classes to style the card, including:

- `bg-white`, `rounded-lg`, and `shadow-lg` to give the card a white background, rounded corners, and a shadow.
- `p-6` to add padding around the card content.
- `hover:-translate-y-1` and `transition duration-200` to apply a vertical translation animation to the card with a duration of 200ms.

 Regenerate response







when i click on the button, send a http request to /api/products

Here's an example of how you could modify the HTML code to add the `onclick` attribute and associated JavaScript function:

```
html Copy code  
  
<div class="bg-white rounded-lg shadow-lg p-6 hover:-translate-y-1 transiti  
  Card Title</h3>  
  <p class="text-gray-700 text-lg mb-4">Lorem ipsum dolor sit amet, consecte  
  <div class="text-center">  
    <button class="bg-blue-500 hover:bg-blue-700 text-white font-bold py-2 p  
  </div>  
</div>
```

And here's an example of the JavaScript code that defines the `fetchProducts()` function:

```
javascript Copy code  
  
function fetchProducts() {  
  fetch('/api/products')  
    .then(response => response.json())  
    .then(data => console.log(data))  
    .catch(error => console.error(error));  
}
```

Regenerate response



instead of fetch api use axios



Sure, you can use Axios instead of the Fetch API to send the HTTP request to ``/api/products``. Here's an example of how you could modify the JavaScript code to use Axios:



javascript

Copy code

```
function fetchProducts() {
  axios.get('/api/products')
    .then(response => console.log(response.data))
    .catch(error => console.error(error));
}
```

This function uses the ``axios.get()`` method to send a GET request to ``/api/products``, and then uses the ``then()`` method to handle the response by logging the ``data`` property of the response to the console. If an error occurs, it uses the ``catch()`` method to log the error to the console.

Note that you'll need to include the Axios library in your HTML file using a ``<script>`` tag, and adjust the ``then()`` method to handle the response data in the appropriate way for your application.

Regenerate response







uncaught typeerror: cannot read property 'bar' of undefined



The error message "Uncaught TypeError: Cannot read property 'bar' of undefined" indicates that you're trying to access a property called "bar" of an object that is `undefined`. This can happen when you try to access a property of an object that hasn't been defined or initialized yet.



Here's an example of what could be causing this error:

javascript

Copy code

```
let obj;  
console.log(obj.bar);
```

To fix this error, you need to make sure that the object is properly defined and initialized before you try to access its properties. For example:

javascript

Copy code


```
let obj = { foo: 123 };  
console.log(obj.bar); // undefined
```

In this example, the `obj` variable is initialized to an object with a `foo` property. When you try to access the `bar` property of `obj`, it returns `undefined` instead of causing an error, because `obj` is a valid object.

If you're still having trouble resolving this error, you can try adding some debug statements or stepping through your code with a debugger to identify where the `undefined` value is coming from and how to properly initialize the object.

Regenerate response



 create a react component for displaying a card



Sure! Here's an example of a React component for displaying a card:



```
jsx Copy code

import React from 'react';

function Card({ title, subtitle, image }) {
  return (
    <div className="bg-white rounded-lg shadow-lg overflow-hidden">
      <img src={image} alt={title} className="h-48 w-full object-cover" />
      <div className="px-4 py-2">
        <h2 className="text-xl font-semibold">{title}</h2>
        <p className="text-gray-600">{subtitle}</p>
        <button className="bg-blue-500 hover:bg-blue-700 text-white font-bol
          Click me!
        </button>
      </div>
    </div>
  );
}

export default Card;
```

Regenerate response



To use this component in your app, you can import it and pass in the necessary props:

```
jsx Copy code

import React from 'react';
import Card from './Card';

function App() {
  return (
    <div className="container mx-auto py-8">
      <Card
        title="My Card"
        subtitle="This is a card"
        image="https://source.unsplash.com/random/800x480"
      />
    </div>
  );
}

export default App;
```





destructure the props parameter



Sure! Here's an example of the `Card` component with destructured props:

```
jsx Copy code

import React from 'react';

function Card({ title, subtitle, image }) {
  return (
    <div className="bg-white rounded-lg shadow-lg overflow-hidden">
      <img src={image} alt={title} className="h-48 w-full object-cover" />
      <div className="px-4 py-2">
        <h2 className="text-xl font-semibold">{title}</h2>
        <p className="text-gray-600">{subtitle}</p>
        <button className="bg-blue-500 hover:bg-blue-700 text-white font-bo
          Click me!
        </button>
      </div>
    </div>
  );
}

export default Card;
```

🔄 Regenerate response

To use this destructured component, you can pass the props as before:

```
jsx Copy code

import React from 'react';
import Card from './Card';

function App() {
  const myTitle = "My Card";
  const mySubtitle = "This is a card";
  const myImage = "https://source.unsplash.com/random/800x480";

  return (
    <div className="container mx-auto py-8">
      <Card title={myTitle} subtitle={mySubtitle} image={myImage} />
    </div>
  );
}

export default App;
```

In this example, we're passing the `title`, `subtitle`, and `image` props to the `Card` component using object literal notation with the same names as the destructured props in the component.

🔄 Regenerate response



i need an api built with express.js to return the list of products. each product should have attributes like id, title, description, price and imageUrl.



Sure! Here's an example of an Express.js API that returns a list of products:



javascript

Copy code

```
const express = require('express');
const app = express();

const products = [
  {
    id: 1,
    title: 'Product 1',
    description: 'Description of product 1',
    price: 10.99,
    imageUrl: 'https://example.com/product1.jpg'
  },
  {
    id: 2,
    title: 'Product 2',
    description: 'Description of product 2',
    price: 19.99,
    imageUrl: 'https://example.com/product2.jpg'
  },
  {

```

Regenerate response







modify the code and retrieve the products from a mongodb



Sure! Here's an example of an Express.js API that retrieves the list of products from a MongoDB database:



```
javascript Copy code
const express = require('express');
const mongoose = require('mongoose');
const app = express();

// Define product schema
const productSchema = new mongoose.Schema({
  title: String,
  description: String,
  price: Number,
  imageUrl: String
});

// Define product model
const Product = mongoose.model('Product', productSchema);

// Connect to MongoDB
mongoose.connect('mongodb://localhost/products')
  .then(() => console.log('Connected to MongoDB...'))
  .catch(err => console.error('Could not connect to MongoDB...', err));

app.get('/api/products', async (req, res) => {
  const products = await Product.find();
  res.send(products);
});

const port = process.env.PORT || 3000;
app.listen(port, () => console.log(`Listening on port ${port}...`));
```



use typescript in this code



Sure! Here's an example of the same Express.js API that retrieves the list of products from a MongoDB database using TypeScript:  

```
typescript Copy code  
  
import express, { Request, Response } from 'express';  
import mongoose from 'mongoose';  
  
const app = express();  
  
// Define product schema  
const productSchema = new mongoose.Schema({  
  title: String,  
  description: String,  
  price: Number,  
  imageUrl: String  
});  
  
// Define product model  
interface ProductDoc extends mongoose.Document {  
  title: string;  
  description: string;  
  price: number;  
  imageUrl: string;
```

 Regenerate response





# Building APIs - Python and FastAPI



generate this api using python and fastapi



Sure! Here's an example of an API built with FastAPI and Python that returns a list of products from a MongoDB database:



python

Copy code

```
from fastapi import FastAPI
from fastapi.responses import JSONResponse
from pymongo import MongoClient

app = FastAPI()

# Connect to MongoDB
client = MongoClient("mongodb://localhost:27017/")
db = client["products"]
collection = db["products"]

@app.get("/api/products")
async def get_products():
    products = []
    for product in collection.find():
        product["_id"] = str(product["_id"])
        products.append(product)
    return JSONResponse(products)
```

Regenerate response





write a sql query to generate a table called products with 5 columns



Here's an example SQL query to create a table called `products` with 5 columns:



sql

Copy code

```
CREATE TABLE products (  
  id INT PRIMARY KEY,  
  name VARCHAR(255),  
  description TEXT,  
  price DECIMAL(10, 2),  
  image_url VARCHAR(255)  
);
```

In this example, we're creating a table called `products` with 5 columns:

- `id` is an integer column that will be used as the primary key for the table.
- `name` is a string column that will store the name of the product.
- `description` is a text column that will store a longer description of the product.
- `price` is a decimal column that will store the price of the product.
- `image\_url` is a string column that will store the URL of an image of the product.

You can modify the data types and column names for specific needs. Once you've created the table, you can use SQL to add data to the table.

Regenerate response





< 2 / 2 >



write a sql query to generate a table called products with these columns:



id (int)  
title (string)  
description (string)  
category (int)  
price (float)  
image\_url (string)



Here's an example SQL query to create a table called `products` with the specified columns:



sql

 Copy code

```
CREATE TABLE products (  
  id INT PRIMARY KEY,  
  title VARCHAR(255),  
  description TEXT,  
  category INT,  
  price DECIMAL(10, 2),  
  image_url VARCHAR(255)  
);
```



write a query to retrieve the top 5 customers in Austin



Assuming that you have a table called `customers` with columns `id`, `first\_name`, `last\_name`, `city`, you can use the following SQL query to retrieve the top 5 customers in Austin:



sql

 Copy code

```
SELECT *  
FROM customers  
WHERE city = 'Austin'  
ORDER BY id DESC  
LIMIT 5;
```

In this query, we're selecting all columns from the `customers` table where the `city` column is equal to `Austin`. We're ordering the results by `id` in descending order (assuming `id` is an auto-incrementing primary key) and limiting the results to 5.

You can modify the query to include only the specific columns you need, and change the `city` value to a different city if needed.



# Writing join queries



revise this query and join the customers table with the orders table to find out how much each customer has spent. then pick the top 5 customers who have spent the most.



Assuming you have two tables named `customers` and `orders`, with columns as follows:



## customers

- id
- first\_name
- last\_name
- city

## orders

- id
- customer\_id
- amount

You can use the following SQL query to join the two tables and find out how much each customer has spent, and then pick the top 5 customers who have spent the most:

sql

Copy code

```
SELECT c.first_name, c.last_name, c.city, SUM(o.amount) as total_spent
FROM customers c
JOIN orders o ON c.id = o.customer_id
GROUP BY c.id
ORDER BY total_spent DESC
LIMIT 5;
```

In this query, we're joining the `customers` table with the `orders` table on the `id` column in `customers` and the `customer\_id` column in `orders`. We're using the `SUM` aggregate function to calculate the total amount each customer has spent, and grouping the results by customer `id`. We're then ordering the results by `total\_spent` in descending order, and limiting the results to the top 5 rows.

This query will give you a result set that includes the customer's first name, last name, city, and total amount spent. You can modify the query to include additional columns as needed.

# Developer Productivity Improvement

AI tools can help software developers in

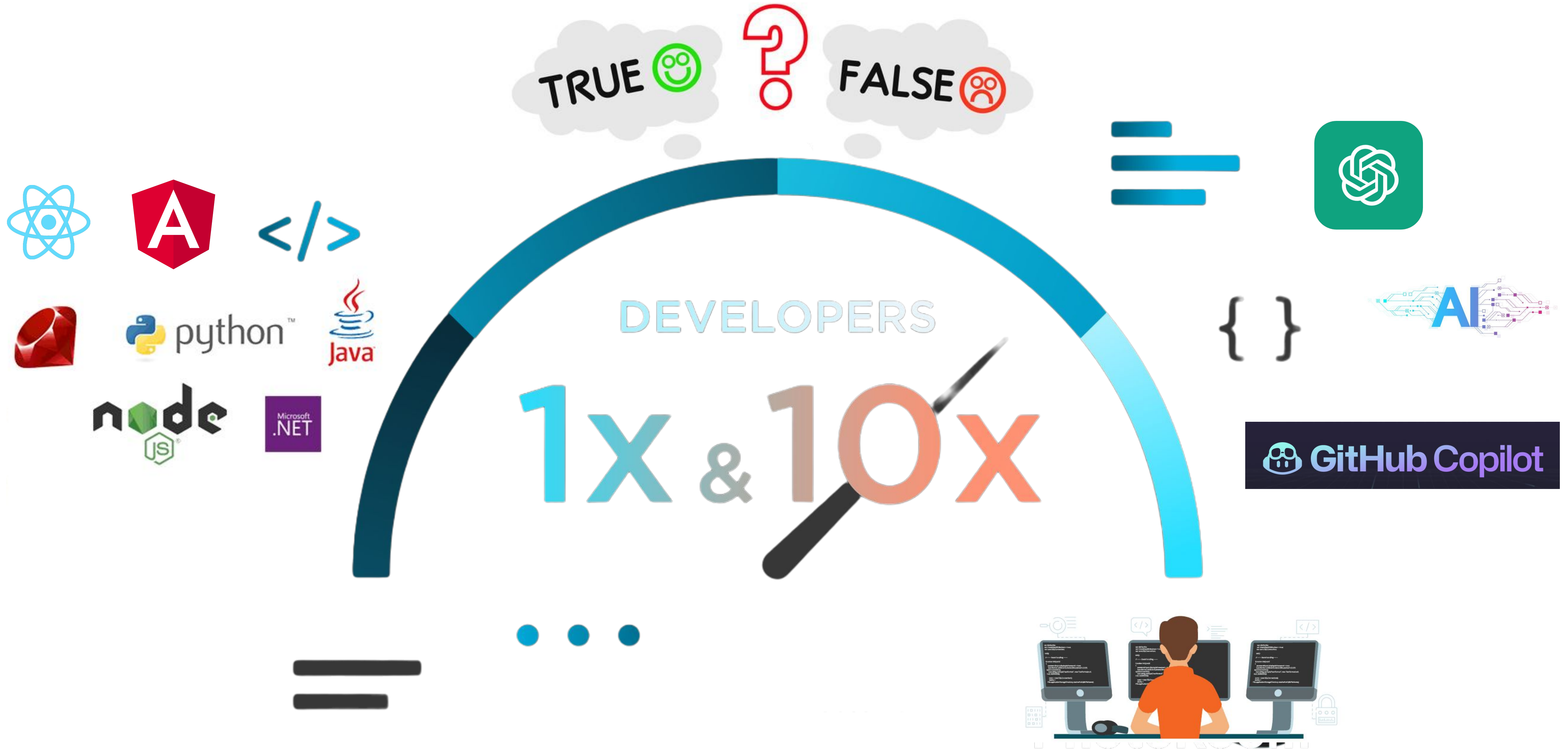
- Automating repetitive tasks
- Identifying potential errors
- Code suggestions, improvement and optimization



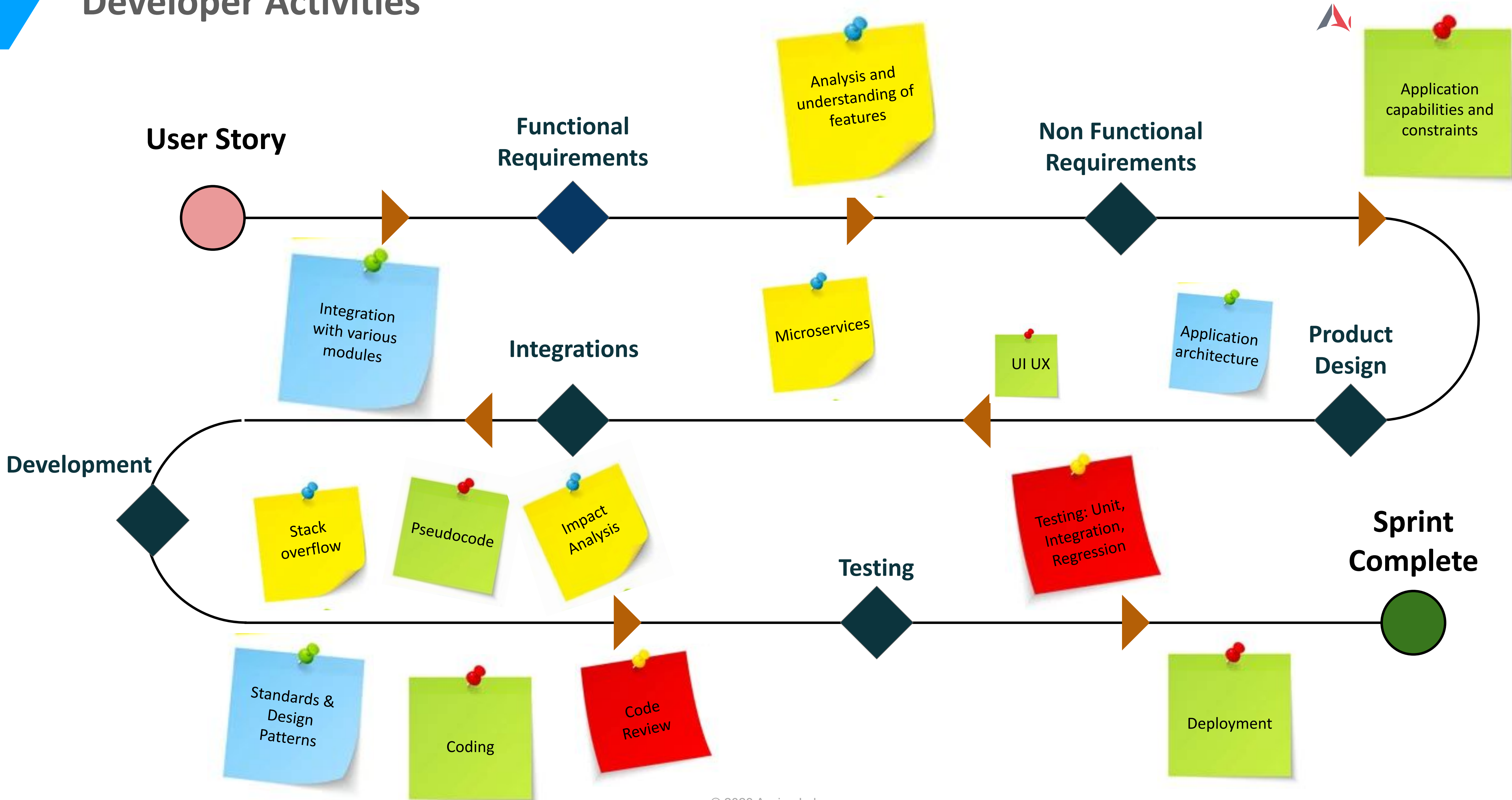
## Productivity gains for software development teams

- A study by the software company Unravel Data found that AI tools for performance optimization can reduce the time spent on troubleshooting performance issues by up to 90%.
- A study by the software company Atlassian found that AI tools for code review can help developers identify up to 90% of potential code quality issues.





# Developer Activities





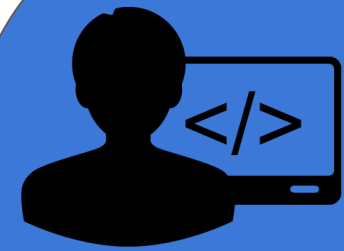
## AI Helps in

- Search for code
- Writing pseudo code
- Coding - Optimization, unit tests, reviews
- Debugging
- Data generation
- Coding for small work packets



## AI does not Help in

- Understanding stories, features, functionalities
- Architecture, design
- Impact in the application, interaction with various modules/microservices
- Deployments
- Infrastructure
- Adhering to project standards



Writing new or improving existing code



Code Review

15%



AI tools can help 20 - 30% increase in Productivity in the right projects when used effectively

38%



Meetings - grooming, planning, standup, tech discussions

12%



Architect, Design, Impact analysis, integration and interaction with other systems

20%



Accion

**INNOVATION**  
**SUMMIT 2023**

Accionlabs



# Challenges with AI

## AI tools can help 20 - 30% increase in Productivity in the right projects when used effectively

But keep in mind ..

- Ensure safety, reliability, and effectiveness.
  - Testing, reviewing, and staying up-to-date are key factors in mitigating risks associated with using the generated code.
- Quality of Code
  - Does not generate same code; may not be reliable, optimal
- Security
  - May have security vulnerabilities, easy entry for hackers
- Compatibility issues
  - versions of software, hardware; may cause system crashes
- Maintenance
  - Generated code, should be owned by developer and should maintain it as his own
- Deprecations
  - Model trained in 2021, there may be deprecated suggestions
- Vendor Lockin
  - GPT enabled 3rd party apps, may lock you in



## Temporary policy: ChatGPT is banned

Asked 2 months ago Modified 4 days ago Viewed 557k times

▲ **Use of ChatGPT<sup>1</sup> generated text for content on Stack Overflow is temporarily banned.**

3234

▼ **Please see the Help Center article: [Why posting GPT and ChatGPT generated answers is not currently acceptable](#)**



This is a temporary policy intended to slow down the influx of answers and other content created with ChatGPT. What the final policy will be regarding the use of this and other similar tools is something that will need to be discussed with Stack Overflow staff and, quite likely, here on Meta Stack Overflow.

Overall, because the average rate of getting *correct* answers from ChatGPT is too low, **the posting of answers created by ChatGPT is *substantially harmful* to the site and to users who are asking and looking for *correct* answers.**



## Accuracy Problems

Dubai is one of the seven emirates that make up the United Arab Emirates (UAE). It is located on the eastern Peninsula, and has a long and rich history that spans thousands of years. In this article, we will explore the history of Dubai, from its earliest settlements to its rise as a global hub for trade, commerce, and tourism.

Install Chrome Extension

### Pre-Islamic era

Dubai's history dates back to the third millennium BCE, when the area was inhabited by nomadic tribes who lived by fishing, hunting, and pearl diving. The region was strategically located on the ancient trade route between Mesopotamia and the Indus Valley, and its location on the coast made it an important center for trade and commerce.

During the pre-Islamic era, the area that is now Dubai was part of the Sassanian Empire, a Persian dynasty that ruled from the third to the seventh century CE. The region played a significant role in the trade between the East and West.

71.4% probability for AI

### Where ChatGPT thrives and fails

The GPT-3 software is obviously impressive, but that doesn't mean it is flawless.

Through the ChatGPT function, you can see some of its quirks.

Most obviously, the software has a limited knowledge of the world after 2021. It isn't aware of world leaders that came into power since 2021, and won't be able to answer questions about recent events.

Clear



Accion

**INNOVATION**  
**SUMMIT 2023**

Accionlabs



# Technology Then & Now

# Technology Through the Years - Let us Compare

1990's  
Internet of Data



Pair Programmer - who can write good code, but the code needs review, validation  
<Good, but need oversight>

2000's  
Internet of People



Compare the times with

- Vi => IDE
- HTML, CSS => CMS
- MS => Open Source  
<Risks, vulnerabilities, upgrades, deprecations>

2010's  
Internet of Things



2020's



Internet of Place  
Internet of Ownership



What if:

- StackOverflow gave one recommendation
- Google gave 1 search result ("I'm Feeling Lucky")  
<Restrictive, incomplete,..>



- 5 freshers + 5 senior developers
- Build new code
- Add features to existing code



## What we found out

- Entry barrier to start new development - low
- Strong logic and programming skills
- Strong debugging, analysis of coding skills
- Easy to adapt to newer programming language - more fullstack capabilities



Accion  
**INNOVATION**  
SUMMIT 2023

Thank you!

Contact:

Ramesh Narasimhan  
Global Chief Delivery Officer

[ramesh.narasimhan@accionlabs.com](mailto:ramesh.narasimhan@accionlabs.com)

+91 99809 11955

