



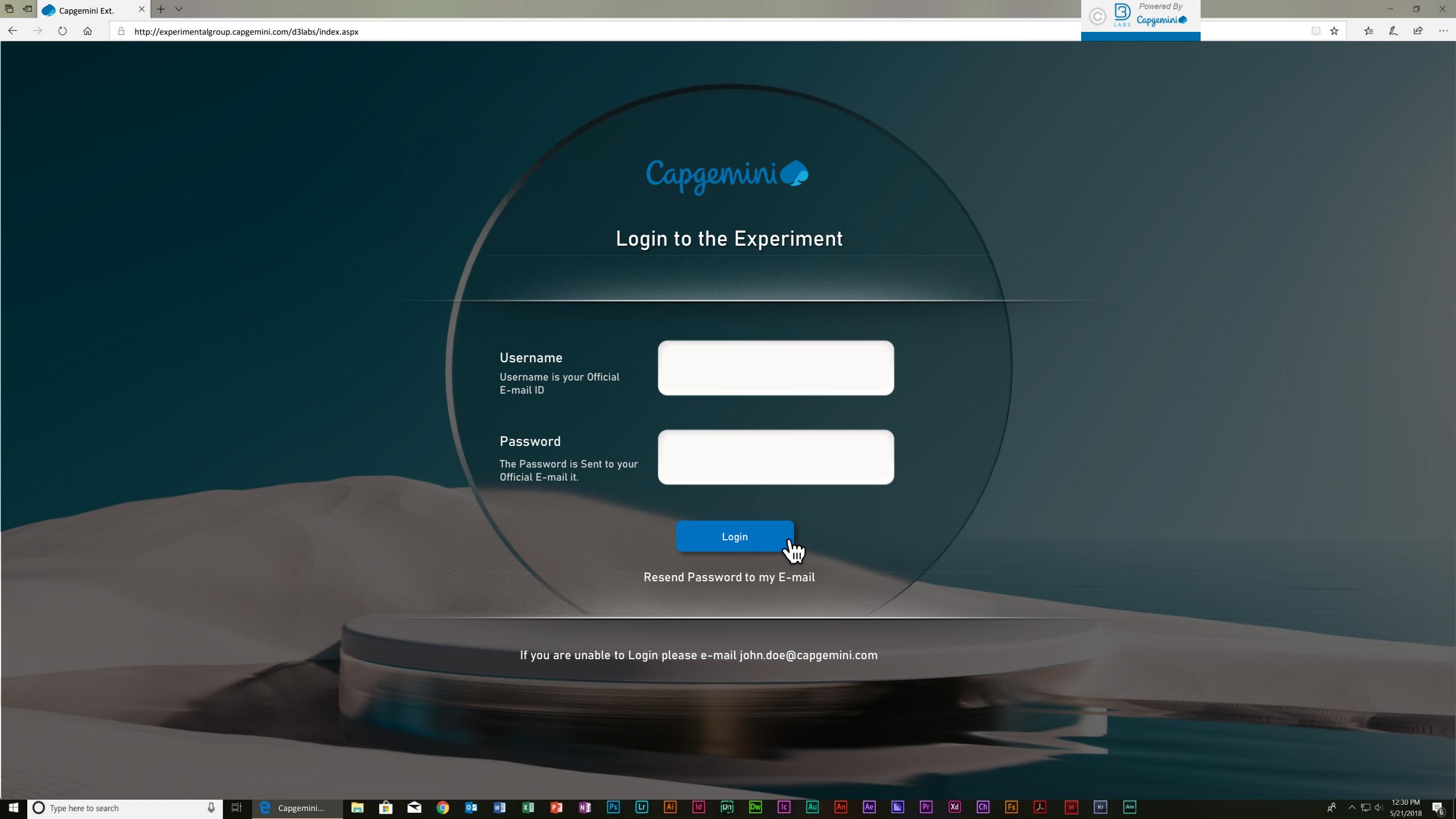
Design Concept - Capgemini

Modifications made post Use-Case and Task Definitions | Abstract - Conceptual



Participant Experience

Once a Capgemini Employee Logs In to the Portal, what is the Customer Journey / Experience



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http://experimentalgroup.capgemini.com/d3labs/index.aspx

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Login to the Experiment

Username

Username is your Official E-mail ID

Password

The Password is Sent to your Official E-mail id.

Login

Resend Password to my E-mail

If you are unable to Login please e-mail john.doe@capgemini.com

Type here to search

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Introduction Video

A Quick 2 Minute Video on How to Participate in this Experiment using this Tool.



Get Started

I still have Questions! View [FAQs](#)





Frequently Asked Questions

On How to Participate in the Experiment and Use this Tool

[How do I log into the portal?](#)



Use the credentials provided in your welcome email to log in via the link provided. We recommend changing your password immediately after first login.

[How do I select a task?](#)



[What if I don't understand the task?](#)



[How do I submit a completed task?](#)



[Can I pause and resume a task?](#)



[What if I face technical issues with the tool?](#)



[How will my performance be evaluated?](#)



[What is the purpose of the Control Group and Experimental Group?](#)



[Is my data secure?](#)



[Who can I contact for further questions?](#)

Get Started



[Back to Viewing Introductory Video Page](#)



Tasks Assigned

The following Tasks are Assigned to you. Click on a Task to Begin or Continue

TASK 1

Angular Login
Component Design

Click To Begin

TASK 2

Test Case Generation for
Given Code

In Progress

TASK 3

R to Python Code
Conversion for Given
Code

Completed





Task 1: Angular Login Component Design

Group: Experimental Group (Hartford ONLY)
Participant Name: Alex Brodsky | May 26th, 2023, 4:44 PM

0



Generate an Angular component called LoginComponent with three files, TypeScript, CSS and HTML. The component is a login page with a form with a username input, password input and login button. The login button's background has the color #822A2E

WHAT STEPS SHOULD YOU FOLLOW?

Recommended Potential Underlying Steps or Sub-Tasks to Accomplish the Task



WHAT TECHNOLOGY IS BEING TARGETED?

Technology Stack considered to accomplish this Use-Case and Task



WHAT SHOULD THE OUTPUT BE LIKE?

Expected Output of the Model whether it is Code, Text, or a Document



SOME GUIDELINES YOU NEED TO FACTOR FOR PROMPTING

Details of Contextual Information



WHAT ARE THE FACTORS THAT WILL DETERMINE AN EFFECTIVE TEST?

List of any Coding / Graphic or Documentation Styles and any other Metrics (Code Coverage / Functional Conversation etc.,)



WHAT IS THE UNDERLYING USE-CASE?

Description of the Use-Case



WHAT IS THE PROBLEM WE ARE TRYING TO SOLVE?

The Pain Point(s) for which Generative AI has been Flagged as a Potential Solution



feedback

Baseline Values

If you were not Using Generative AI Models and you had to perform this task manually how long would you take?



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1. Create the function file
2. Create the style
3. Create the HTML file



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1. Angular
2. REACT

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1. component.css – css file for the new component is created.
2. component.html – html file is created.
3. component.spec.ts – used for unit testing.
4. component.ts – define the module, properties, etc.

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1. • High-level requirements -> is it sentence based, does it include functionality, etc
2. -> login page with a form with user, password and a login button, with a reCAPTCHA box, a forgot password and security questions
3. • Include the Hartford style into the prompt
4. -> bordeaux color (#822A2E)
5. <https://pages.github.thehartford.com/RP89509/HUK2/Storybook/?path=/story/huk-foundation-introduction--introduction>

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1. Code needs to comply with the Hartford style
2. Three separate files as specified in the outputs section
3. Baseline Effort: 3-4 days

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Automatically generate code snippets or entire functions based on high-level requirements or natural language descriptions.

feedback

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Baseline Values



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Not enough Angular/Front-end developers. Integrate the prompt via IDE(aka CoPilot) to create a fully functional Angular/react based UI using Hartford branded CSS, colors, images, etc.



Baseline Values



Baseline Values

If you were not Using Generative AI Models and you had to perform this task manually how long would you take?

Time Taken to Finish Task without Gen AI

We seek a Ball Park Number here in HH:MM. As to how much time would this task take without Using Generative AI

Days Hours Mins

00

00

00

Prompt the Models

For the Given Task Above, Write a Prompt or a Series of Prompts in the Prompt Box Below to Generate Outputs from both of the Models A and B.

Model A

Model B

feedback





Prompt the Models

For the Given Task Above, Write a Prompt or a Series of Prompts in the Prompt Box Below to Generate Outputs from both of the Models A and B.

Model A

Model B

Type Prompt Here for the Given Task to Generate Output from both the Models



feedback

Answer the Following Questions

Which Model's Output was Better?



Answer the Following Questions

Which Model's Output was Better?

- Model A is Better Model B is Better It's a Tie Both Aren't Good

Model A	Model B					
% Closer to the Expected Output Both Models have generated outputs based on your prompts. How close are the outputs to the output you had in mind or how it should be. Enter in %.	Percentage 60%	Percentage 80%				
Time Needed to be Spent Further on Generated Output You have a Certain Output in Mind and Both Models Generated certain outputs. How much time would you have to spend further for the Model Generated Outputs to be as you envisioned the Output to be?	Days 00	Hours 00	Mins 00	Days 00	Hours 00	Mins 00

On What all do you need to Optimize the Outputs for?

Can you list for Each Model the Areas on which the Outputs need to be Optimized further for it to be as you Envision. List at least one point each.

Model A

Model B



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What are all not up to your Standards in the Output?

For Each Model's Output. What are the Aspects that you think are not up to the Standard?

Model A

Model B

Any Further Comments

For Each Model's Output. What are the Aspects that you think are not up to the Standard?

Comments on Model A

Comments on Model B

Any suggestion on how your preferred Model B's Output to your prompt should be?

List any Specific Output Snippets you would have liked to see.

feedback

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Comments on Model A

Comments on Model B

Any suggestion on how your preferred Model B's Output to your prompt should be?

List any Specific Output Snippets you would have liked to see.

Next Task

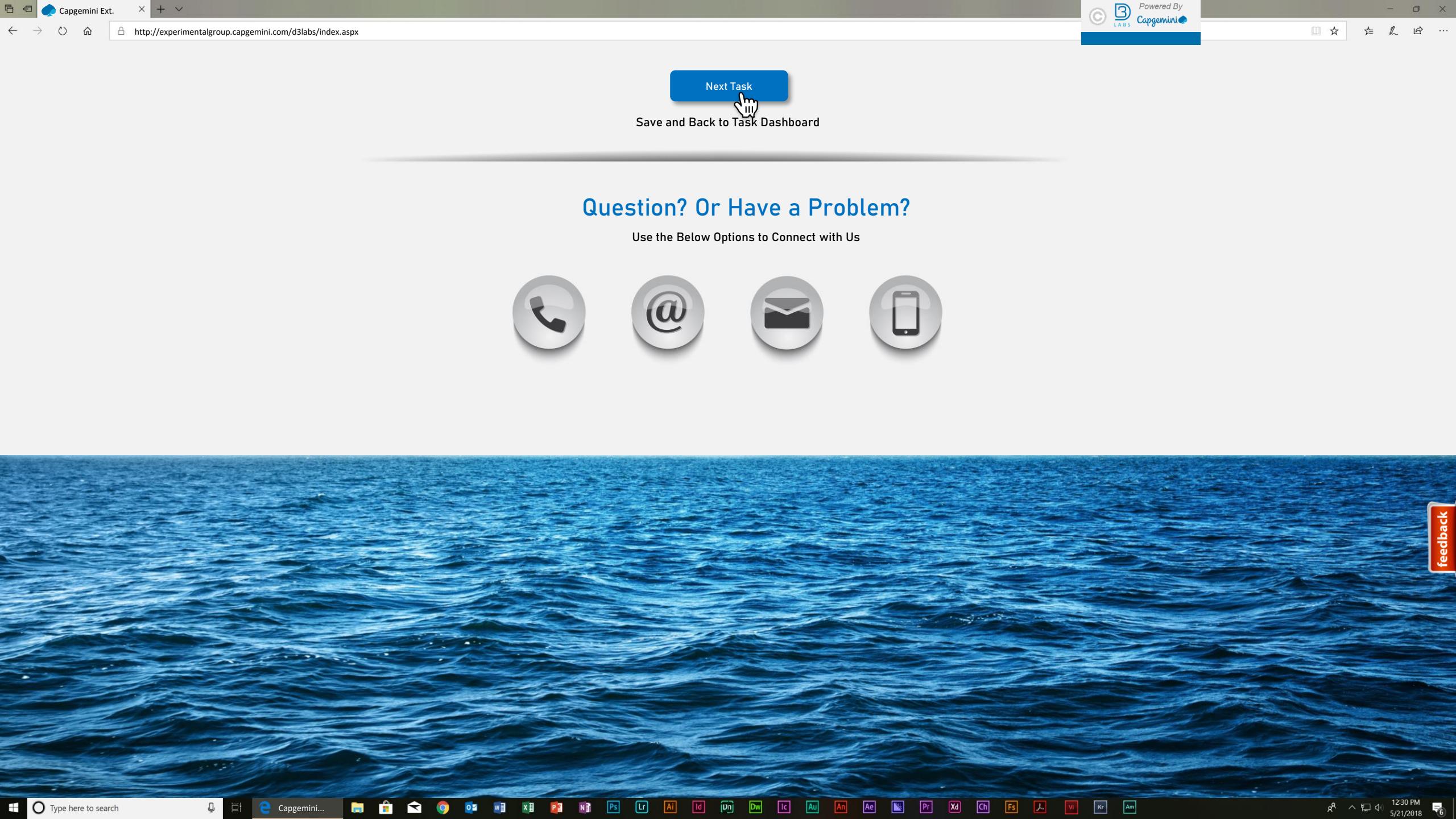
Save and Back to Task Dashboard

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Next Task

Save and Back to Task Dashboard

Question? Or Have a Problem?

Use the Below Options to Connect with Us

feedback

Type here to search

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In Progress

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Completed



You can Submit Tasks all at once and only after Completing all the Tasks, but
you can Save your Progress and Resume anytime later

Save

Submit Tasks

[Introductory Videoe](#) | [Frequently Asked Questions](#)



Task 2: Test Case Generation for Given Code

Generate JUNIT/Jest test cases for below code snippet

JAVASCRIPT CLASS FOR A SIMPLE LIBRARY SYSTEM

Copy 

This Library class allows us to add and remove books, as well as check if a particular book exists in the library. Each of these methods would require its own set of test cases to ensure that they are functioning correctly. We would want to make sure that we are correctly adding, removing, and finding books, and that we are properly handling cases where an invalid book is added or a non-existent book is removed.

```
class Library {  
    constructor() {  
        this.books = [];  
    }  
  
    // Adds a book to the library  
    addBook(book) {  
        if (typeof book === 'string') {  
            this.books.push(book);  
        } else {  
            throw new Error('Invalid book');  
        }  
    }  
  
    // Removes a book from the library  
    removeBook(book) {  
        const index = this.books.indexOf(book);  
        if (index !== -1) {  
            this.books.splice(index, 1);  
        } else {  
            throw new Error('Book not found');  
        }  
    }  
  
    // Checks if a book exists in the library  
    hasBook(book) {  
        return this.books.includes(book);  
    }  
}  
  
module.exports = Library;
```

feedback

WHAT STEPS SHOULD YOU FOLLOW?

Recommended Potential Underlying Steps or Sub-Tasks to Accomplish the Task





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Feedback

Please let us know if you enjoyed the process and if we need to make any improvements. Thanks a lot!



Check those which are Applicable

- The Process was Self-Explanatory and Easy to Understand.
- I felt confused at times and did not know how to proceed.
- I think this was a fruitful exercise to understand the effectiveness of Generative AI in SDLC Roles

Any Other Feedback

You can close this window without selecting either of the Options. Your Task Progress has already been saved. Feedback is Recommended but Optional.

Back to Tasks

Submit Feedback

About Capgemini

Capgemini is a global leader in partnering with companies to transform and manage their business by harnessing the power of technology. The Group is guided everyday by its purpose of unleashing human energy through technology for an inclusive and sustainable future. It is a responsible and diverse organization of over 325,000 team members more than 50 countries. With its strong 55-year heritage and deep industry expertise, Capgemini is trusted by its clients to address the entire breadth of their business needs, from strategy and design to operations, fueled by the fast evolving and innovative world of cloud, data, AI, connectivity, software, digital engineering and platforms. The Group reported in 2021 global revenues of €18 billion.

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