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To: arun.kumar.05.3.006@gmail.com

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Thanks for filling in this form: [Project-Based Learning \(PBL\) Report](#)



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Project-Based Learning (PBL) Report

Before you begin filling out this form, please make sure you have the following items ready:

- Your day-wise notes for all stages of Design Thinking – *Empathize, Define, Ideate, Prototype, and Test*
- Screenshots of your innovation
- Screen recordings showcasing your innovation's working model
- Images of your innovation created during the Day 2 take-home task

This form is designed to capture your reflections, ideas, and learnings from the innovations you developed as part of the **IBM SkillsBuild PBL activity**. Please take 5–10 minutes to complete it thoughtfully and honestly.

Email *

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College Name *

UNIVERSITY COLLEGE OF ENGINEERING KANCHEEPURAM

Qualification (Degree) *

Day 1

Design Thinking Process Step 1 & 2: Empathise & Define

Step 1: Understanding the Need *

Which problem am I trying to solve?

People find it hard to discover the right products quickly in online shopping apps.
There is too much confusion, fake reviews, and poor recommendations.

Step 2: What is the problem?

The problem I want to solve in **one clear sentence**

[You can try a prompt like this: "I am ideating a solution for <enter your problem in detail> Convert this problem into a single clear sentence which I can share to an audience"]

I am building ASmart to help users find and buy the right products easily with smart search and guidance.

Why is this problem important to solve? *

[You can try a prompt like this: "Draft 1-2 lines on why this problem is important to solve. Support this with evidence using relevant data points"]

Online shoppers waste time and money choosing wrong products due to poor filtering and fake reviews.

A smarter system saves time and improves customer satisfaction.

Take-home task *

Ask 2–3 people (you can speak to your family members, friends, teachers, trainers) what they think about this problem. Write down surprising or new things you learn below.

They said current apps are confusing and show too many unnecessary products.
They want simple filters, trusted reviews, and clear recommendations.

Day 2

Step 3: Brainstorming solutions *

List **at least 5 different solutions** (wild or realistic)

[You can try a prompt like this: "I am ideating solutions for <enter your problem in detail> Suggest 5 unique solutions for this problem, which I can easily accomplish in 2 days using free, open-source mobile-friendly AI tools"]

AI chat assistant to suggest products by budget and need.

Smart filters + search to reduce wrong choices.

Compare feature to compare 2 products side-by-side.

Verified reviews only (remove fake reviews).

Personalized homepage based on user interest.

Step 4: My favourite solution: *

AI shopping assistant that guides users to the right product using chat.

Step 5: Why am I choosing this solution?

*

It is easy to build in 2 days using free AI tools and simple UI. It makes shopping faster and reduces confusion for users.

Take-home task *

Generate the image of your solution and how it will look (eg: "a bag that charges your phone while you walk")

Attach the image in this box below:

[You can try a prompt like this: "I am ideating a solution for <enter your problem in detail> I have selected a solution which includes <enter your solution description> Generate an image for this solution"]

Submitted files



ibm site front page - Arunkumar.jpg

Question

Tools you can use for Day 2

ChatGPT/Perplexity AI:

You can use these tools to compare your solutions and choose the most effective one

*AI Tools you can use
for the take-home task:*

Canva AI/CoPilot

AI/Meta AI: Use these mobile-based tools to generate images for the solution they want to design

Day 3

Design Thinking Process Step 4 & 5: Building & Testing my Prototype

*Step 6: Prototype – Building my first version **

What will my solution look like?

[Take inspiration from the image generated on Day 2 and describe the solution]

My solution is a mobile-friendly shopping app with an AI chat assistant. Users can ask for product suggestions by budget, category, and need.

What AI tools will I need to build this?

[You can try a prompt like this: *"I am ideating a solution for <enter your problem in detail> I have designed a solution which includes <enter your solution description> What open-source, free AI tools that I can use to build this solution? The tools should be easily available and accessible on my mobile. Do not recommend tools which requires cost or subscription"*]

*

I will use free AI tools to design UI, generate content, and build a simple chatbot. These tools are easy to access on mobile and web.

Top AI tools I finally selected to build this solution? [Eg: Claude AI, Grok AI, Chatling AI]

Write it in 5 lines as 5 points

*

ChatGPT – to design features and chatbot logic

Perplexity AI – to compare product ideas and content

Canva AI – to design UI screens

Figma AI – to create app mockups

Chatling AI – to add a simple chatbot

Step 7: Test – Getting Feedback

Who did I share my solution with? [You may share it with your trainer, peers or even AI] *

I shared my idea with my friend and my trainer. I also tested the concept with AI tools.

What positive feedback did I receive? *

They liked the AI assistant idea and simple UI design. They said it will help users save time while shopping.

What feedback did I receive for improvement?

*

They suggested adding better filters and clearer product comparison. They also recommended improving the chatbot responses.

Take-home task

Record your solution and test feedback in voice notes.

Upload your voice notes, images and your solution/model on GitHub

AI Tools you can use
for Step 6-7:

ChatGPT/Perplexity

AI/Claude AI/Canva AI/Chatling AI/Figma AI: You can use these tools to
build solutions/models or mock-up dummy prototypes

Day 4

Presenting & Reflecting on my Innovation

Step 8: Presenting my Innovation *

Final Project Title:

ASmart – AI Shopping Assistant for Smart Online Buying

Key points of my presentation

*

[You can try a prompt like this with attachment/screenshot of your solution: "I am ideating a solution for <enter your problem in detail> I have selected a solution which includes <enter your solution description> I tested the solution with <enter details of who tested your solution> and they gave the following feedback <enter feedback given by the testers> Generate a 1-minute pitch document with following headings: project title, problem statement, my innovation, feedback I received from users, impact of my innovation. Add the attached image in the pitch document"]

Problem: Users get confused choosing products online.

Solution: AI assistant suggests best products by budget and need.

Innovation: Chat-based shopping guidance + smart filters.

Feedback: Users found it easy and time-saving.

Impact: Helps users buy the right product faster.

Step 9: Reflections *

What did I enjoy the most during this project-based learning (PBL) activity?

I enjoyed designing the idea and seeing my concept become a real prototype.
Learning to use AI tools for design and testing was fun and useful.

Upload images of your day-wise notes/responses of all questions
You can also combine your images into one PDF file and upload

*

Submitted files



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Upload Mini Project link *

<https://github.com/arunkumarib/ASMART.git>

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