



Thanks for filling in this form: Project-Based Learning (PBL) Report

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Tue, 16 Dec, 2025 at 3:03 pm

To: kuthadimanasa919@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

Spend 5-10 minutes to fill this form.

Before filling this form, keep the following things ready:

- Your day-wise notes of all design thinking questions [Empathise, Define, Ideate, Prototype, Test]
- Screenshots of your innovation
- Screen recordings of your innovation's working model
- Innovation images generated on Day 2 take-home task

This form is to record your thoughts and ideas about the innovations you made as part of IBM SkillsBuild's PBL activity so fill this form honestly and completely.

Your email address (kuthadimanasa919@gmail.com) was recorded when you submitted this form.

Your Full Name *

KUTHADI MANASA VENKATA NAGA SRUTHI

Your Email ID (as per IBM SkillsBuild)

kuthadimanasa919@gmail.com

Your Mobile Number *

7093714528

College Name *

Yjrdms college of engineering

Qualification(Degree) *

Btech

Day 1

Design Thinking Process Step 1 & 2: Empathise & Define

***Step 1: Understanding
the Need***

**Which problem am I
trying to solve?**

*

**Home-Based Baking (Custom Cakes & Desserts)
Personalized cakes, brownies, cupcakes for birthdays & events.**

***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*"]

People often find it difficult to get trustworthy home-based bakers who can provide hygienic, affordable, and fully customized cakes and desserts delivered on time for special occasions.

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*"]

This problem is important because demand for customized celebration desserts is rapidly increasing, and studies show that over 60% of customers prefer personalized food items for events, yet many struggle with quality assurance, hygiene, and last-minute availability from local bakers.

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.

*

Person 1 (Family Member):

They said homemade cakes taste better than bakery cakes but finding a reliable home baker at the right time is difficult.

Person 2 (Friend):

They mentioned that many home bakers don't clearly show prices, designs, or reviews, which makes customers hesitant to order.

Person 3 (Teacher/Trainer):

They pointed out that hygiene and timely delivery are the biggest concerns, especially for birthday parties and events.

Surprising/New Learnings:

Trust and hygiene matter more than price for most customers.

Customers want to see real photos and reviews before ordering.

Late delivery is a common issue that ruins special occasions.

Day 2

Design Thinking Process Step 3: Ideation

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*"]

1. Instagram + WhatsApp Order System

Create an Instagram page showing cake designs and take orders through WhatsApp using AI-written auto-replies.

2. Canva-based Digital Menu & Order Form

Design a digital cake catalog using Canva and collect orders through a Google Form with predefined options.

3. Local Home Baker Marketplace App (AI-assisted)

A simple mobile-friendly platform that connects customers with verified home bakers, showing prices, designs, and reviews.

4. AI Chatbot for Cake Customization

Use a free AI chatbot that asks customers about flavor, size, design, budget, and event, then suggests cake options.

5. Subscription-based Celebration Reminder Service (Wild Idea)

An AI tool that reminds users of birthdays/anniversaries and suggests pre-designed cakes they can order instantly.

Step 4: My favourite solution:

*

A local home baker marketplace app that helps customers find trusted home-based bakers, view designs, compare prices, and place customized cake orders easily.

Step 5: Why am I choosing this solution?

*

I am choosing this solution because it solves multiple problems at once—trust, hygiene, price transparency, and timely delivery. It is easy to prototype using free AI tools, scalable in the future, and benefits both customers and home bakers.

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



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 will look like a simple mobile-friendly app/website where users can search for nearby home-based bakers, view cake designs, prices, ratings, and verified badges. Customers can select cake type, customize flavors and designs, check delivery time, and

place orders easily. The interface will be clean, colorful, and easy to use, similar to a food-ordering app.

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 require cost or subscription"]

I will use free, open-source, and mobile-accessible AI tools to design, write content, and create mockups without any paid subscription.

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

1. ChatGPT – to create problem statements, chatbot flows, baker descriptions, and app content.

2. Canva AI – to design app screens, banners, digital menus, and visual mockups.

3. Figma AI (free version) – to build clickable UI wireframes and prototype screens.

4. Chatling AI (free plan) – to create a basic customer support chatbot for cake customization.

5. Google Forms + Sheets – to collect orders and feedback during the prototype stage.

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 solution with my friends, family members, and also tested it using AI tools like ChatGPT to simulate user feedback.

What positive feedback did I receive?

*

Users liked the idea of finding trusted home bakers in one place. The design was easy to understand and visually attractive. People appreciated clear pricing and customer reviews before ordering.

What feedback did I receive for improvement? *

Add real photos and short videos of cakes instead of only designs. Include delivery time tracking and advance booking options. Provide hygiene certification or baker verification details clearly.

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

Step 8: Presenting my Innovation

Final Project Title:

*

SweetConnect – A Smart Platform to Find Trusted Home-Based Bakers for Customized Cakes & Desserts

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*]

1. Problem Statement

People often struggle to find reliable home-based bakers who offer hygienic, affordable, and customized cakes with on-time delivery for special occasions.

2. My Innovation

SweetConnect is a mobile-friendly platform that connects customers with verified local home bakers. It allows users to browse designs, compare prices, customize cakes, check reviews, and place orders easily using AI-powered tools.

3. Feedback I Received from Users

Friends and family appreciated the idea of a single trusted platform for home bakers. They liked the clean design, transparent pricing, and customer reviews that build trust.

4. Improvements Suggested

Users suggested adding real cake photos, hygiene verification badges, and delivery time tracking for better user experience.

5. Impact of My Innovation

SweetConnect supports small home-based bakers, improves customer trust, saves time, and ensures better celebration experiences through personalized desserts.

Step 9: Reflections

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

*

I enjoyed converting a real-life problem into a practical solution and using AI tools like ChatGPT and Canva to design and present my idea creatively.

Step 9: Reflections

What was my biggest challenge during this project-based learning (PBL) activity?

*

I enjoyed converting a real-life problem into a practical solution and using AI tools like ChatGPT and Canva to design and present my idea creatively.

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



[Screenshot_2025-12-16-14-35-18-631_com.android.chrome - Kuthadi Manasa.jpg](#)

Upload Mini Project link *

<https://www.orchids.app/join/UuTvtXw3SVqygiYLrzwrXrBL3IHzO8eV>

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