



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

1 message

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To: keerthivetapalem@gmail.com

Mon, Feb 9, 2026 at 11:54 AM

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Thanks for filling out 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 (keerthivetapalem@gmail.com) was recorded when you submitted this form.

Your Full Name *

KEERTHI VETAPALEM

Your Email ID (as per IBM SkillsBuild)

keerthivetapalem@gmail.com

Your Mobile Number *

7569298061

College Name *

Acharya Nagarjuna University

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?

*

Online website for selling with low cost

*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"]

"Customers struggle to find reliable online shopping options that offer quality products at genuinely low and affordable prices."

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"]

"There is a lack of trustworthy online platforms that provide good-quality products at low, budget-friendly prices for everyday shoppers."

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.

*

Many people said they avoid low-cost online products because they're afraid the quality will be poor or different from the photos.

One person mentioned that delivery charges sometimes make the "low cost" products actually expensive.

Another person said they trust known websites more, even if they cost a bit extra, because returning products on small sellers' sites is hard.

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"]

Orchids ai

Step 4: My favourite solution:

*

The Favorites module lets users mark products as “liked” and store them in a personalized list. The system saves these items to the user’s profile and displays them in a separate “My Favorites” section. This helps users quickly revisit products without searching again, improving the overall shopping experience and increasing engagement.

Step 5: Why am I choosing this solution?

*

chose this solution because the Favorites feature significantly enhances user experience. It helps customers quickly access items they are interested in without searching again. This increases user satisfaction, improves engagement, and ultimately boosts the chances of conversions and sales.

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



IMG-20260209-WA0001 - Keerthi Vetapalem.jpg

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 prototype will look like a clean and simple shopping app where users can browse products on the home screen and tap a heart icon to save items to their Favorites. The product details page will show a large image, price, and an option to add or remove the item from the Favorites list. A separate Favorites screen will display all saved products in an organized layout, allowing quick access and easy removal. Overall, the design will be modern, user-friendly, and focused on helping customers quickly find and revisit the items they like.

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"]

For building this shopping app with a Favorites feature, I can use free and open-source AI tools that work easily on mobile. I can use Google Teachable Machine to create basic product-recommendation models, TensorFlow Lite for running lightweight AI tasks on the app, Hugging Face for ready-made NLP models if I need product search or smart suggestions, and Canva's free AI tools for creating simple UI mockups and icons. For backend AI tasks, I can use GitHub Copilot alternatives like Codeium or Tabnine Free to help generate code without paying. All these tools are free, accessible, and support mobile-friendly workflows.

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

*

Write it in 5 lines as 5 points

ChatGPT (Free version) - for generating UI ideas, code help, and documentation.
Claude AI (Free tier) - for refining app logic and improving text/content.
Grok AI (Free access) - for quick brainstorming and alternative suggestions.
Hugging Face free models - for product search, recommendations, and NLP features.
Canva Free AI tools - for creating clean UI mockups, icons, and prototype designs.

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 trainer, a few classmates who understand app design, and also with AI tools like ChatGPT and Claude to get quick suggestions and improve the prototype.

What positive feedback did I receive?

*

I received positive feedback saying that my design is clean and easy to use, and the Favorites feature makes the shopping experience more convenient. They appreciated the clear navigation, the simple icons, and how quickly users can save and revisit products. They also said the prototype looks modern and user-friendly.

What feedback did I receive for improvement? *

I received feedback that I could improve the design by adding more product details, making the buttons slightly more visible, and including filters or categories to help users find items faster. They also suggested improving the color contrast, adding a search bar, and making the Favorites screen more organized for a smoother user experience.

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

Presenting & Reflecting on my Innovation

Step 8: Presenting my Innovation

Final Project Title:

*

Smart Shopping App with Favorites Feature

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"]

I identified the need for a more personalized and convenient online shopping experience.
I designed a shopping app prototype with a clean interface and a Favorites feature that lets users save products easily.
I tested the solution with my trainer, classmates, and AI tools to gather useful feedback.
Users appreciated the simple design, easy navigation, and the usefulness of the Favorites section.
Based on improvement feedback, I refined the UI, added better product details, and improved visibility and organization.
My innovation aims to make shopping faster, smoother, and more user-friendly by helping users revisit items they like.

Step 9: Reflections

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

*

I enjoyed the creative part the most—designing the prototype, choosing how the app should look, and seeing my idea slowly turn into a real, usable solution. It felt exciting to bring my own

Step 9: Reflections

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

*

My biggest challenge during this PBL activity was figuring out how to turn my idea into a proper working solution, especially deciding the app features and organizing the design in a user-friendly way. It took time to think, plan, and refine everything, but it helped me learn a lot.

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://online-shoe-store-1.vercel.app/>

Create your own Google Form

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