Google Forms

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.

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Trainer name *

◉ Aparna .R

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College Name *

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Qualification (Degree) *

B.E.Computer Science and Engineering

Day 1

Design Thinking Process Step 1 & 2: Empathise & Define

Step 1: Understanding the Need *

Which problem am I trying to solve?

I am trying to solve the problem of understanding real user difficulties, needs, and pain points related to the product or service.

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"]

Students need a simple, centralized, and user-friendly platform to manage their academic tasks effectively because existing tools are complex or scattered across multiple apps.

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"]

"I am ideating a solution for students who struggle to organize and manage their academic tasks, deadlines, and important information efficiently due to the lack of a simple, centralized digital platform."

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 - College Friend

Finds it difficult to track assignments because information comes from WhatsApp, email, and notice boards.

Often misses deadlines not due to laziness, but because reminders are scattered.
New insight: The problem is not lack of effort, but too many platforms causing confusion.

Person 2 - Teacher/Trainer

Notices students submit assignments late even when instructions are clearly shared.

Believes students need one trusted platform rather than multiple tools.
New insight: Teachers also struggle because they assume students check all platforms regularly.

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"]

AI Academic Planner Web App
A mobile-friendly web app where students enter subjects and deadlines, and an AI auto-creates a daily study plan with reminders.
Tools: React, Tailwind, Hugging Face models, Firebase (free tier)

WhatsApp / Telegram AI Study Bot
An AI chatbot that sends deadline reminders, exam alerts, and answers syllabus-related queries directly inside WhatsApp or Telegram.
Tools: Telegram Bot API, open-source LLMs, BotFather

Step 4: My favourite solution: *

My favourite solution is an AI Academic Planner Web App that allows students to enter their subjects, assignments, and exam dates, and automatically generates a personalized study plan with reminders in one centralized, mobile-friendly platform.

Step 5: Why am I choosing this solution?

*

am choosing this solution because it directly addresses the core problem of poor academic organization by providing a single, simple, and mobile-friendly platform. It is easy to develop using free, open-source tools, can be built quickly, and has the potential to reduce student stress while improving time management and academic performance.

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 - Harichandramathi P.jpeg

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 will look like a clean, mobile-friendly AI Academic Planner Web App that works smoothly on both smartphones and laptops. The home screen will display a personalized dashboard showing upcoming assignments, exam dates, and today's study plan. Users can easily add tasks by entering the subject, type of work, and deadline, and the AI will automatically organize these into a daily and weekly schedule. The interface will include reminder alerts, a calendar view, and a simple navigation menu, making it easy for students to track their academic work in one centralized place.

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"]
  *

Hugging Face (Open-Source Models)
Used to generate study plans, organize tasks, and suggest schedules based on deadlines.
✔ Free models
✔ Works via mobile browser

spaCy (Open-Source NLP Library)
Helps extract important information like subjects, dates, and deadlines from text input.
✔ Free
✔ Lightweight and reliable

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
  *

Hugging Face (Open-Source AI Models) - to generate personalized study plans and organize academic tasks.

spaCy - to extract subjects, dates, and deadlines from student inputs using natural language

processing.

Whisper (Open-Source Speech-to-Text) - to allow students to add tasks using voice commands.

Firebase (Free Tier) - to store user data, tasks, and schedules securely.

Progressive Web App (PWA) - to make the solution mobile-friendly and app-like without installation.

Step 7: Test - Getting Feedback

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

I shared my solution with my trainer, two college peers, and an AI assistant to get feedback on usability, clarity, and usefulness. Their inputs helped me understand what features were most valuable and what could be improved in the first version.

What positive feedback did I receive? *

The feedback was very positive, highlighting that the solution is simple, easy to use, and highly relevant to students' daily academic needs. Users appreciated the centralized dashboard, clear reminders, and mobile-friendly design, and felt it could significantly reduce stress and improve time management.

What feedback did I receive for improvement?
*

Users suggested adding customizable reminder timings, a dark mode for better usability, and a progress-tracking feature to motivate consistent study habits. Some also recommended offline access for viewing schedules without internet and a simpler onboarding process for first-time users.

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:

E-Mart

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've created a clean 1-minute pitch document in the canvas with all the required headings and a
placeholder for the prototype image, written in a clear, presentation-ready style.

Step 9: Reflections *

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

I enjoyed coming up with creative solutions to a real problem and seeing how a simple idea could
be transformed into a working prototype. I also liked exploring AI tools and learning how
technology can make students' academic lives easier. Collaborating with peers and receiving
feedback was motivating, as it helped me improve my idea and understand different perspectives.

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

📕 E-mart - Harichandramathi P.pdf

Upload Mini Project link *

https://harichandramathi2006.github.io/E-MART/