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

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Wed, Feb 4, 2026 at 2:40 AM

## 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.

Email \*

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Trainer name \*

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College Name \*

University college of engineering kanchipuram

Qualification (Degree) \*

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?

The disconnect between a developer's actual skill and how they are perceived online. Currently, GitHub profiles only show quantitative data (commit counts/activity graphs), which fails to capture qualitative skills like code maintainability, project health, and architectural choices. Recruiters and hiring managers struggle to verify "true" developer identity quickly, leading to missed talent or bad hires.

### **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*" ]

"Technical recruiters and engineering managers lack an efficient, AI-driven way to assess a candidate's actual software craftsmanship and code maturity beyond superficial commit activity."

### **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 is critical because the cost of a 'bad hire' in tech is immense, yet recruiters often have less than 60 seconds to review a portfolio. By replacing raw data with actionable intelligence

(like Project Health Scores and AI Verdicts), we reduce time-to-hire and help talented developers showcase their true impact, not just their busy work."

### 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.

Insight 1 (The Recruiter Perspective): "I learned that many non-technical recruiters find GitHub intimidating. They don't know where to look in a repository to see if the code is 'good,' so they often ignore the code entirely.

Insight 2 (The Peer Perspective): "I discovered that my peers often feel their 'green dots' (contribution graph) are misleading because they spend days designing or debugging without pushing code. They need a tool that visualizes 'Impact' and 'Consistency' rather than just volume."

## 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-Powered "Developer Narrative" Dashboard (The Web App): A web platform that fetches raw GitHub data (commits, languages, readme quality) and uses an LLM (like Mixtral/OpenAI) to generate a "career story" and "code maturity rating" instead of just counting commits

"Recruiter Vision" Browser Extension: A Chrome/Edge extension that adds a "TL;DR" sidebar directly onto any GitHub profile page, summarizing the user's top 3 skills and flagging "tutorial hell" projects vs. real applications.

The "Dev-Card" Generator (Gamification): A viral marketing tool that turns a developer's GitHub stats into a "FIFA-style" trading card with ratings for "Consistency," "Complexity," and "Impact" that can be shared on LinkedIn/Twitter.

### Step 4: My favourite solution: \*

Solution #1: The AI-Powered "Developer Narrative" Dashboard (DevIntel)

## *Step 5: Why am I choosing this solution?*

\*

"I chose this solution because it solves the problem for both stakeholders: it gives developers a shareable 'Proof of Work' portfolio and gives recruiters an instant 'Deep Dive' without needing to read code.

## **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



homepage - Lokesh A.png

## **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]

"A responsive, dark-mode dashboard titled 'DevIntel' that visualizes GitHub activity. It features a 'Project X-Ray' for health scores, a 'Tech Identity' badge, and a central 'AI Verdict' box where the AI writes a summary of the developer's skills."

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 need OpenRouter to access free LLMs (Mixtral) for the analysis and ChatGPT to help generate the React frontend code. I will also use Vercel for free hosting to make the prototype accessible on mobile." and re

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

\*

OpenRouter API: For free access to the Mixtral 8x7B model for analysis.

Claude: For generating React components and Tailwind CSS styling.

ChatGPT: For quickly researching GitHub API documentation.

stitch AI: For designing the logo and presentation assets.

Antigravity: For speeding up the backend Node.js logic.

*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 the live Vercel demo link with my engineering classmates, my project mentor, and friends preparing for interviews."

### What positive feedback did I receive? \*

"They were impressed by the accuracy of the 'AI Verdict,' saying it felt very personal. They also praised the professional 'Dark Mode' UI, noting it looked like a finished product."

### What feedback did I receive for improvement?

\*

"They suggested adding a 'Share to LinkedIn' button so users can post their results. They also recommended adding a loading spinner for large repositories to improve the 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

### Day 4

*Presenting & Reflecting on my Innovation*

### Step 8: Presenting my Innovation \*

Final Project Title:

DevIntel

## 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"]

Project Title: DevIntel - The AI Developer Intelligence Platform.

Problem Statement: GitHub profiles currently only show "raw numbers" (commit counts), which fails to show a developer's actual skill quality. Recruiters cannot easily differentiate between "tutorial code" and "complex architecture."

My Innovation: A web-based dashboard that uses Generative AI (Mixtral 8x7B) to analyze code quality. It assigns a "Health Score" and writes a qualitative "AI Verdict," translating complex code into a clear career narrative.

Feedback Received: Peers found the AI analysis "scarily accurate" and professional. Users loved the "Dark Mode" UI but requested social sharing features for LinkedIn.

Impact: This tool reduces the time it takes for recruiters to screen candidates and allows developers to prove their "Tech Identity" (e.g., Backend Ninja vs. Full-Stack Architect) instantly.

## Step 9: Reflections \*

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

"I most enjoyed the rapid prototyping phase using AI tools. It was empowering to go from a simple 'Problem Statement' on Day 1 to a fully deployed, live application (on Vercel) by Day 3. Seeing the AI successfully analyze a real GitHub repository and generate accurate insights was a highlight, as it proved that my theoretical solution actually worked in the real world."

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



pure-white-background - Lokesh A.jpg

Upload Mini Project link \*

<https://github.com/itslokeshx/DevIntel>

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