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Thanks for filling out 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 *

mohanrajalk444@gmail.com

Name *

MOHANRAJ K

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Phone number *

6382067879

Trainer name *

☒ Aparna .R

☐ Sanjai .M

☐ Raju .P

College Name *

Qualification (Degree) *

B.E computer science engineering

Day 1

Design Thinking Process Step 1 & 2: Empathise & Define

Step 1: Understanding the Need *

Which problem am I trying to solve?

Many TNPSC and RRB exam aspirants struggle to find accurate exam dates, official syllabus PDFs, and previous year question papers in one place. They also lack a proper study planning system and reminders, which affects their preparation efficiency.

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 preparing for government exams do not have a single reliable platform that provides real-time exam updates, syllabus, previous papers, and a structured study planner in one place.

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 lakhs of students in India prepare for TNPSC and RRB exams every year, and missing correct information or poor planning can delay their career opportunities. A centralized and organized platform can save time, reduce confusion, and improve success rates for aspirants.

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.

I spoke with two friends and one family member who are preparing for competitive exams. They said they often search multiple websites for syllabus and dates and sometimes get outdated information. One surprising insight was that many students forget exam deadlines due to lack of reminders. They felt a single website with countdown timers, syllabus PDFs, and study planning tools would be very helpful and time-saving.

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. A single website that shows real-time TNPSC & RRB exam dates with countdown timers.
2. A mobile app that sends reminders and daily study notifications.
3. A Telegram/WhatsApp bot that sends syllabus PDFs and important updates automatically.
4. A YouTube + Website combo platform with video lessons and downloadable notes.
5. An AI-powered study planner dashboard where students can track syllabus, previous papers, and daily goals in one place.

*Step 4: My favourite solution: **

A modern AI-based Government Exam Study Planner Website that provides real-time exam dates, syllabus PDFs, previous year question papers, aptitude practice PDFs, and a personal study planner dashboard.

Step 5: Why am I choosing this solution?

*

I am choosing this solution because it is easy to build using no-code AI tools, mobile-friendly, and directly helps students preparing for TNPSC and RRB exams. It combines multiple needs—dates, syllabus, reminders, and planning—into one platform, saving time and reducing confusion.

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



1770259024574 - mohan raj.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 will be a modern student dashboard website for TNPSC and RRB exam aspirants. It will have animated cards, real-time exam countdown timers, syllabus PDF viewer and download buttons, previous year question papers, aptitude practice PDFs, and a daily study planner checklist. The design will use a dark blue and purple theme with simple animations and will be mobile-friendly.

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 such as ChatGPT for content and prompts, Lovable AI for no-code website building, Gemini AI for images and icons, and Figma AI for layout planning. These tools are easy to access on mobile and do not require coding knowledge.

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

*

- 1.ChatGPT – content and prompts
 - 2.Lovable AI – website building
 - 3.Bolt AI – UI edits and design
 - 4.Canva AI – images and graphics
 - 5.Figma AI – layout and prototype design
-

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 two friends preparing for government exams and one trainer.

What positive feedback did I receive? *

They liked the countdown timers, syllabus PDF access, and clean dashboard design. They said it saves time and is easy to use on mobile.

What feedback did I receive for improvement?

*

They suggested adding more previous year papers, improving timer accuracy, and adding notification reminders for exam dates.

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:

AI-Powered Government Exam Study Planner for TNPSC & RRB Aspirants

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"]

The problem: Students struggle to find accurate exam dates, syllabus PDFs, and previous year papers in one place.

My solution: A modern animated website with real-time countdown timers, syllabus viewer, previous question papers, aptitude PDFs, and daily study planner.

Tools used: ChatGPT, Lovable AI, Bolt AI, Canva AI, Figma AI.

User feedback: Students liked the dashboard design, timers, and easy PDF access.

Impact: Saves time, reduces confusion, and helps aspirants plan their preparation effectively.

Step 9: Reflections *


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

I enjoyed designing the website UI and adding animations, countdown timers, and PDF resources using AI tools. It was interesting to turn a real student problem into a working solution without heavy coding. I also liked getting feedback from friends and improving the project based on their suggestions.

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

 Untitled document - mohan raj.pdf

Upload Mini Project link *

Live Website: <https://ignite-exam-ace.lovable.app> GitHub Repository: https://github.com/mohanraj730D/Exam-study-planner_TNPSC-RRB-Aspirants.git

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