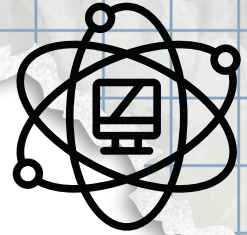




Creative Projects

COMPUTER SCIENCE/IT



Project 1: Technology Systems Analysis

In this project, you will explore the field of computer science and information technology by analyzing real-world tools and systems. You will examine their purpose, usability, and features to understand what makes technology effective and user-friendly. Using your research, you will identify trends and make recommendations for improvement.

Step 1: Review Technology Tools/Systems (4-5 hrs)

Review **5-8 tools or systems** (apps, software platforms, websites, operating systems, etc.)

Record the following for each:

- Name and type of system
- Purpose (what problem it solves)
- Key features and functions
- Usability (ease of use, interface design)
- Target users or audience

Step 2: Organize Your Data

- Create a comparison chart or table (Excel or Google Sheets)
- Clearly display all systems and their details
- Group or sort in a meaningful way (by function, audience, or complexity)

Step 3: Analyze Technology Trends

Identify patterns such as:

- Common features across tools
- Design elements that improve usability
- Differences between simple and complex systems
- Trends in user experience or functionality

Answer:

- What trends do you notice in technology systems?
- What makes a tool effective or user-friendly?
- What challenges do users or developers face?

Step 4: Make Recommendations

Based on your findings, answer:

- What should developers focus on when creating new technology?

Provide **2-3 specific, realistic suggestions** and explain them.

Examples might include:

- Improving user interface and accessibility
- Adding features that enhance efficiency
- Simplifying complex workflows

Final Deliverables (2 Completed Projects)

1) Comparison Chart (Required)

A clear chart or table showing your 5-8 tools/systems and their details

2) Trend Summary (Required)

Choose one format:

- 1-2 page written summary
- OR
- 10-12 slide presentation

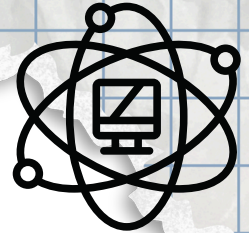
Your summary must include:

- Overview of tools/systems analyzed
- Key technology trends
- Explanation of effective features
- Your recommendations for improvement



Creative Projects

COMPUTER SCIENCE/IT



Project 2: Tech Solution Design

In this project, you will take on the role of a technology designer by creating your own solution to a problem. You will design either an app concept or a workflow automation plan that improves efficiency or user experience.

Step 1: Identify a Problem

Choose a problem that could be solved with technology.

Examples:

- Organizing schoolwork
- Improving communication
- Automating repetitive tasks

Step 2: Plan Your Solution

Decide:

- Type of solution (app or automation plan)
- Target users
- Key features or functions

Step 3: Create Your Own Simple Design Concept

Choose **ONE** option:

Option A: App Concept

Create a basic app idea that includes:

- App name and purpose
- Key features
- User flow (how users interact with the app)

Option B: Workflow

Automation Plan
Create a plan that includes:

- Task or process being automated
- Steps in the workflow
- Tools or systems used

Step 4: Create Wireframe or Diagram

Develop a visual representation of your idea:

- Wireframe (for app screens)

OR

- Diagram (for workflow or system process)

Final Deliverables (2 Completed Projects)

1) Concept Outline (Required)

A written explanation of your tech solution

2) Wireframe or Diagram (Required)

A visual representation of your app or workflow

3) Extension Activities (Recommended)

- Build a prototype using digital tools (Figma, Scratch, etc.)
- Test your idea with users and gather feedback
- Present your solution as a tech pitch