Report on the Comparison of AI-Enhanced Design Tools: Figma and Canva

1. Introduction

The purpose of this report is to evaluate and compare two design tools: **Figma** and **Canva** based on my experience using their free versions for our group project for this semester.
During this project, I used:

- **Figma** to design the **Graphical User Interface (GUI)** for **KidTask** project.
- **Canva** to create **Activity Diagrams** and **Class Diagrams** with the assistance of built-in AI features for **BeePlan** project.

This report first describes the work completed using each tool, then compares their usability, limitations, advantages, and overall suitability within the constraints of their free versions. Screenshots of the created GUI and diagrams are included at the end of the report.

2. Work Completed

2.1 KidTask's GUI Design Using Figma

I used Figma to design an interactive and visually structured GUI for KidTask project.
The tool allowed me to:

- Create frames and define layout structures.
- Add UI components such as buttons, input fields, text blocks, and icons.
- Adjust spacing, alignment, colors, and typography efficiently.
- Organize design elements in layers.
- Use the daily free AI credit to generate additional UI ideas and speed up design adjustments.

Figma's interface was intuitive, and the drag-and-drop functionality allowed for fast iteration. Overall, Figma provided a smooth workflow for UI/UX design.

2.2 Activity and Class Diagrams Using Canva for BeePlan Project

I used Canva to create both **Activity Diagrams** and **Class Diagrams** for BeePlan.
Although Canva offers AI-supported diagram generation, using it in the free plan was challenging due to several limitations:

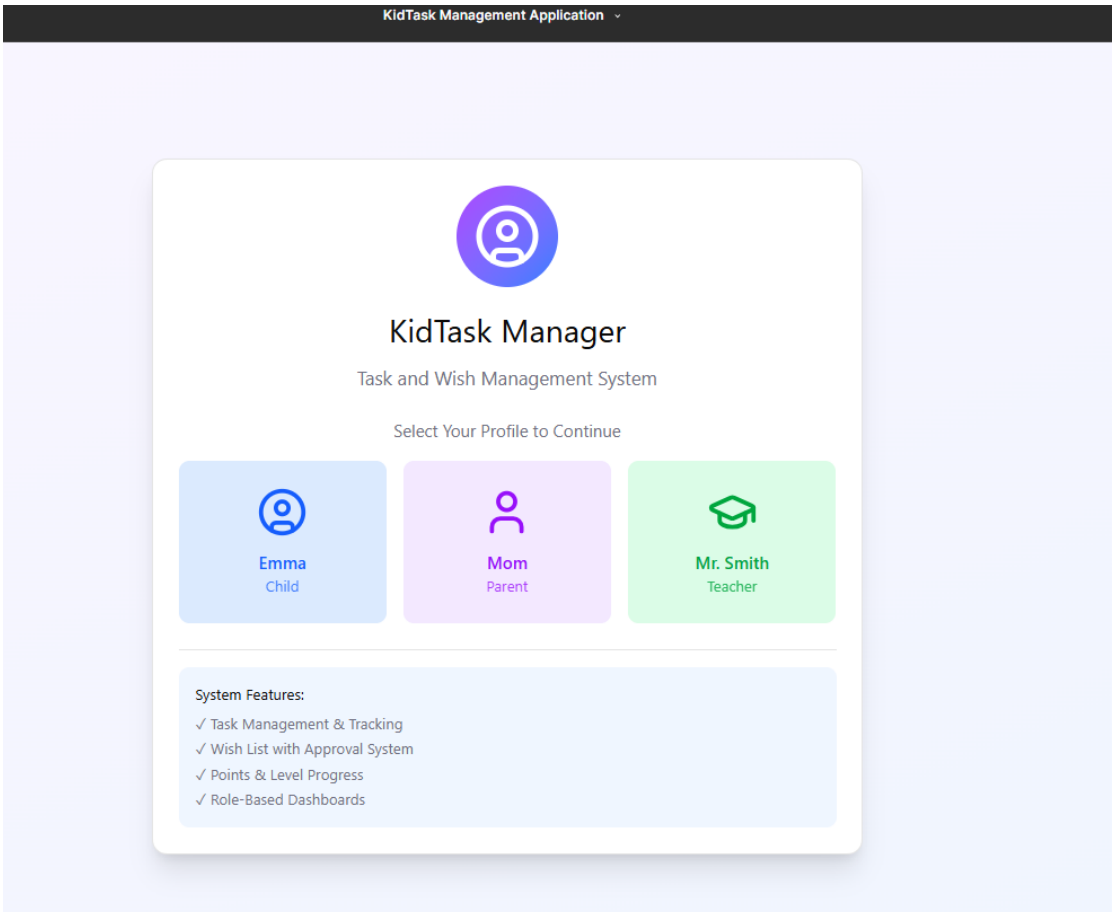
- Only **one AI-generated diagram** was allowed in the free version.
- Shapes, arrows, and connectors often required manual adjustments.
- Maintaining alignment and consistency between diagram elements was time-consuming.
- Customization of UML-specific shapes was limited.

Despite these challenges, I completed the required diagrams by manually editing the tool's standard shapes and connectors.

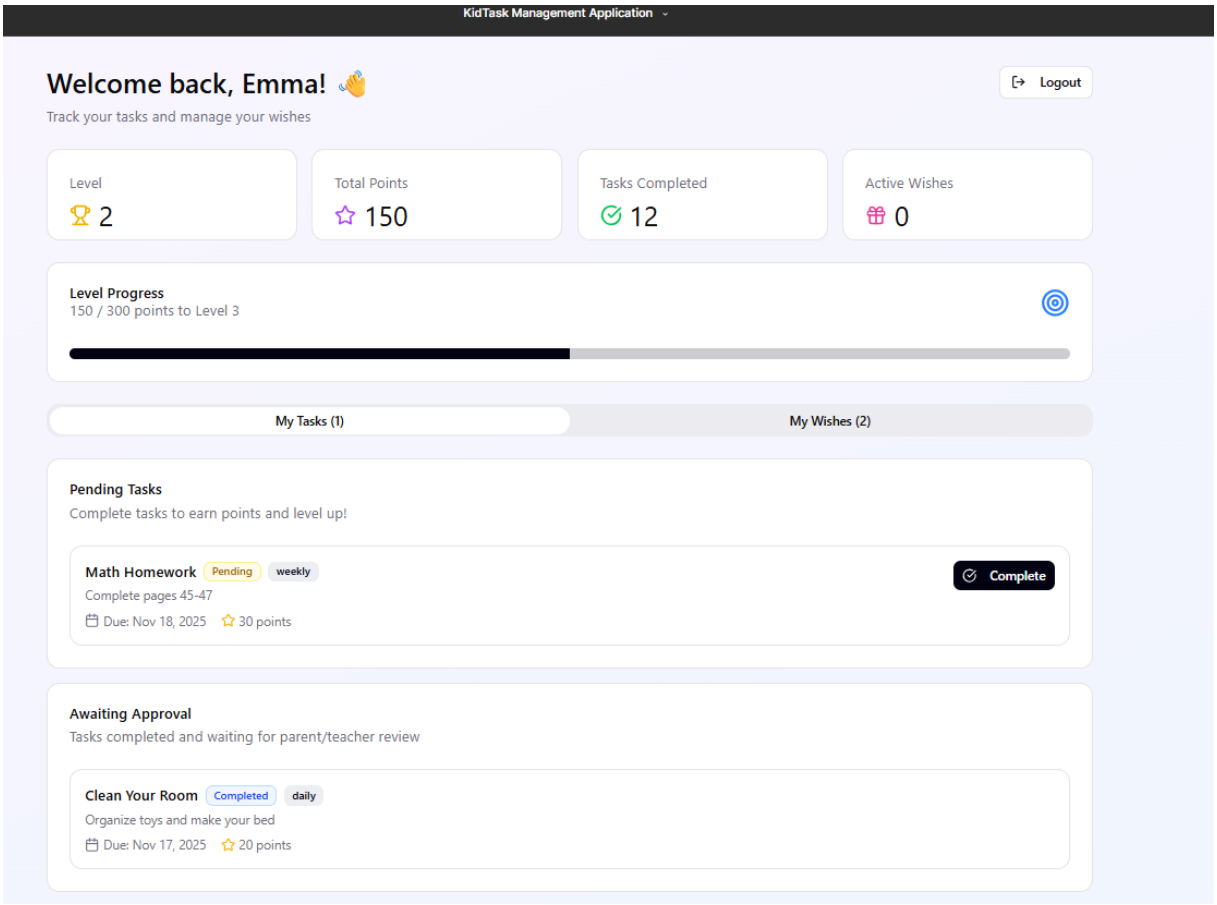
3. Suitability for the Project

- **Figma** was ideal for GUI design, providing precise control and a natural workflow for interface creation.
- **Canva** was usable for UML diagrams but required much more manual effort and time, making it less suitable for technical diagramming under the free plan.

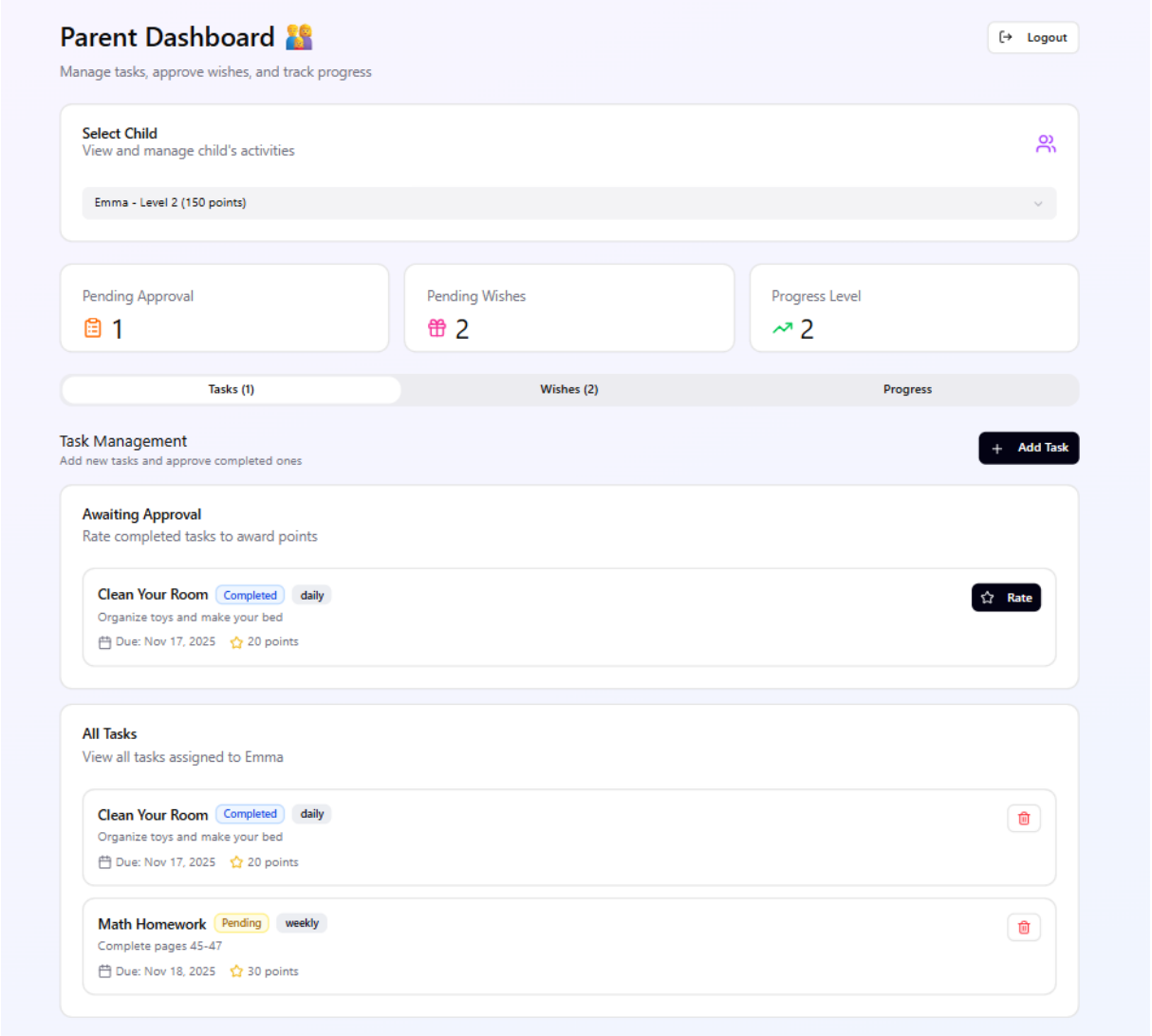
4. Figma – GUI Design for KidTask



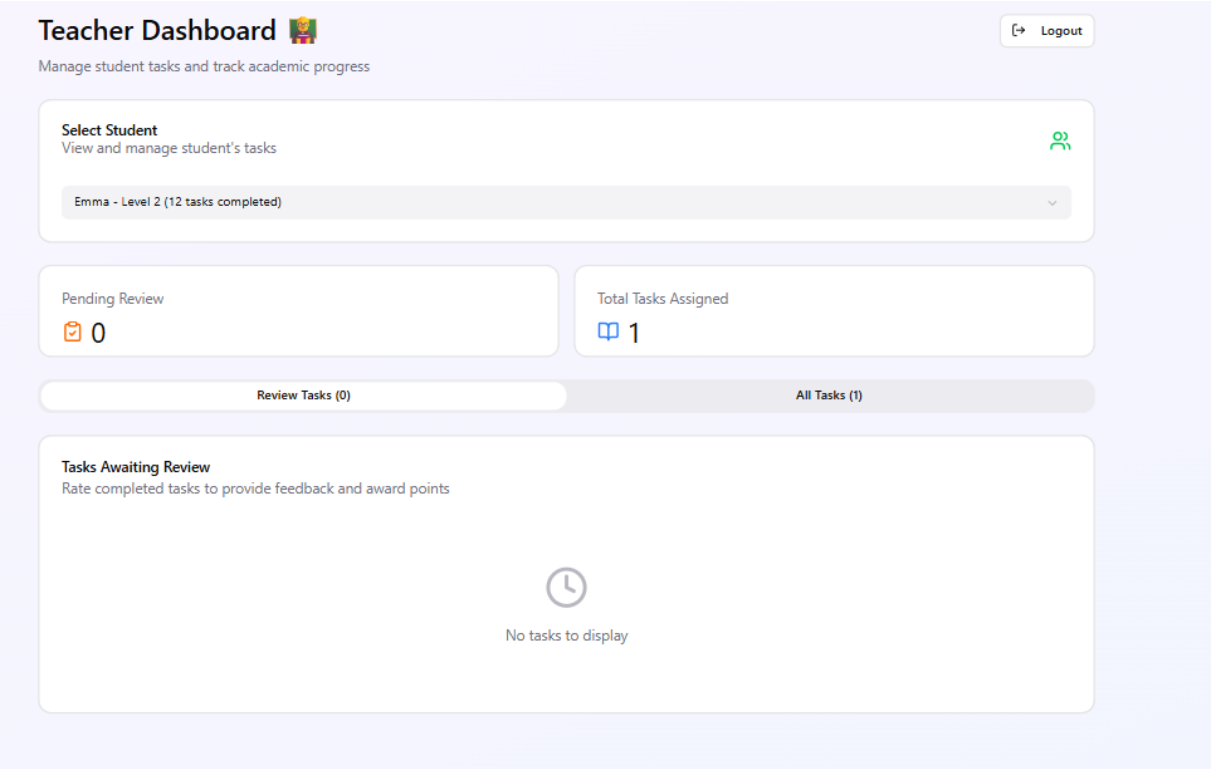
Page 1: Log-in page for KidTask



Page 2: Task Tracking and Wish Management for Child

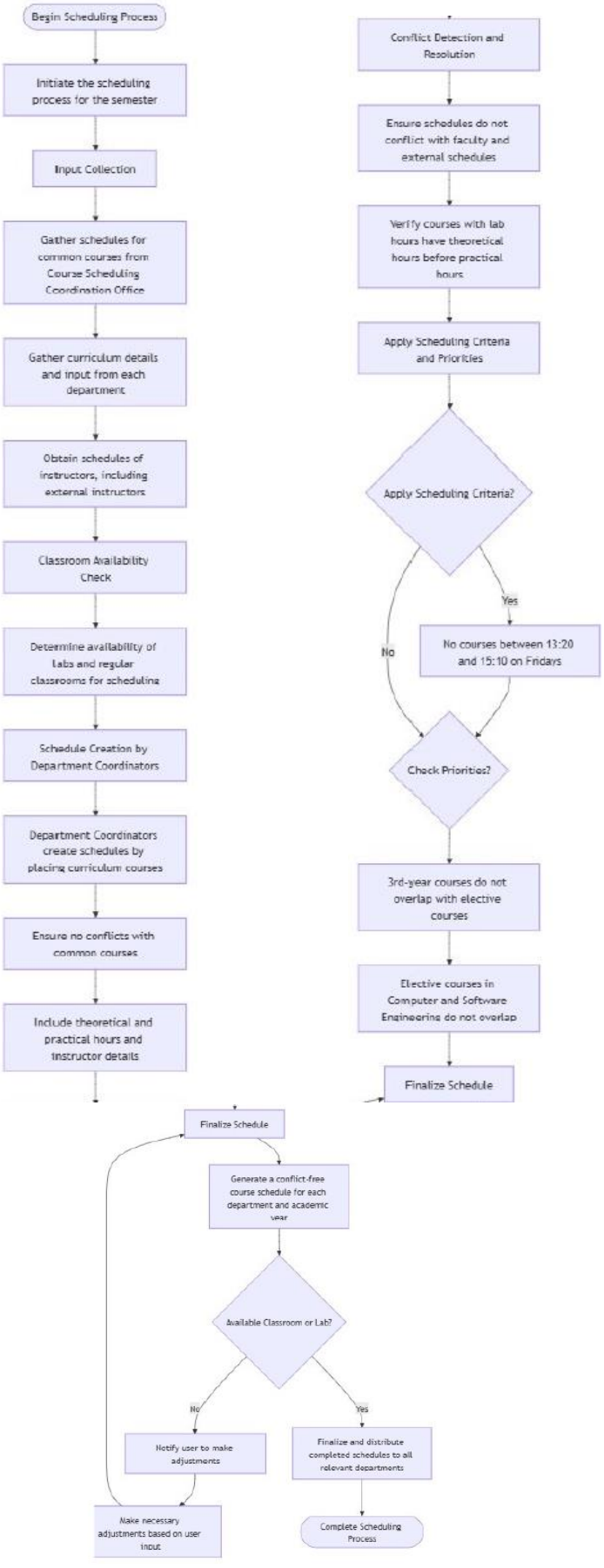
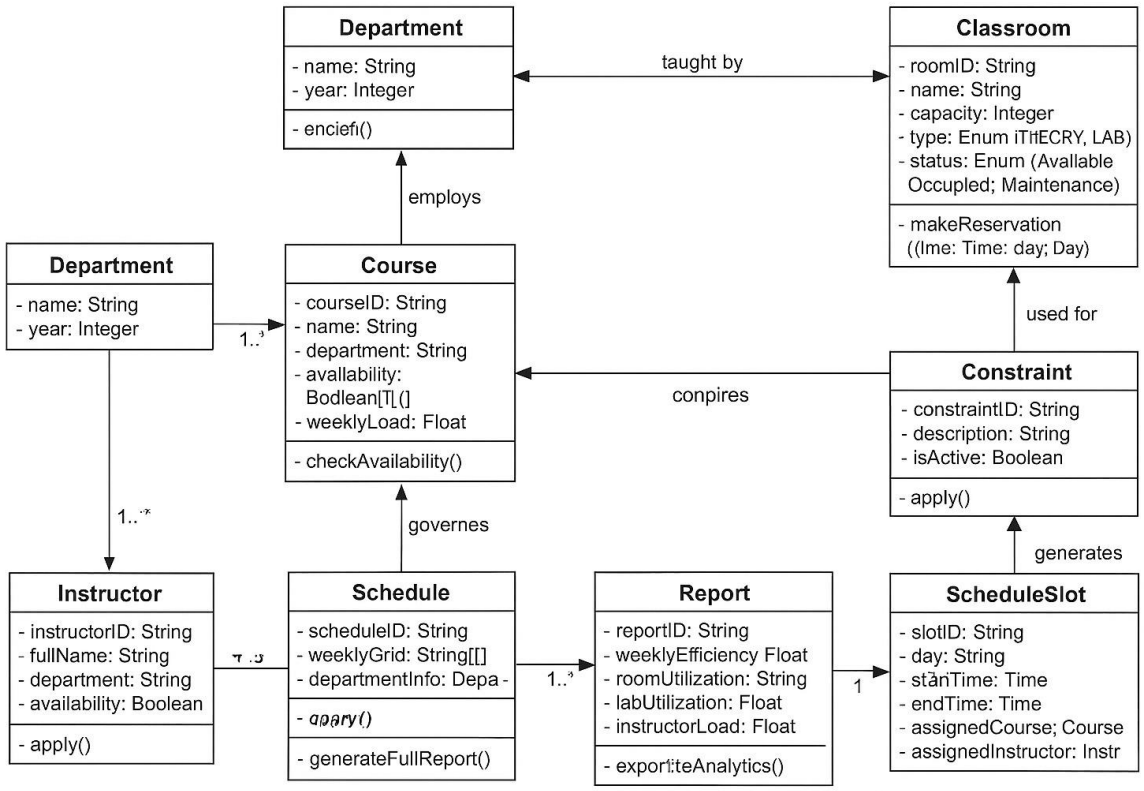


Page 3: Task Management and Wish Approval for Parents



Page 4: Task Management and Tracking Progress of Students

5. Canva – Activity Diagram for BeePlan


Begin Scheduling Process
Initiate the scheduling process for the semester
Input Collection
Gather schedules for common courses from Course Scheduling Coordination Office
Gather curriculum details and input from each department
Obtain schedules of instructors, including external instructors
Classroom Availability Check
Determine availability of labs and regular classrooms for scheduling
Schedule Creation by Department Coordinators
Department Coordinators create schedules by placing curriculum courses
Ensure no conflicts with common courses
Include theoretical and practical hours and instructor details
Conflict Detection and Resolution
Ensure schedules do not conflict with faculty and external schedules
Verify courses with lab hours have theoretical hours before practical hours
Apply Scheduling Criteria and Priorities
Apply Scheduling Criteria?
Yes
No
No courses between 13:20 and 15:10 on Fridays
Check Priorities?
3rd-year courses do not overlap with elective courses
Elective courses in Computer and Software Engineering do not overlap
Finalize Schedule
Finalize Schedule
Generate a conflict-free course schedule for each department and academic year
Available Classroom or Lab?
No
Yes
Notify user to make adjustments
Finalize and distribute completed schedules to all relevant departments
Make necessary adjustments based on user input
Complete Scheduling Process

6. Canva- Class Diagram for BeePlan