



University of Belize FormFlow

“Your forms. On-time. Hassle-free.”

High-Fidelity Prototype

CMPS3141-P07-25S1



Presented By

Andres H., Jennessa S., Tysha D.

The Problem

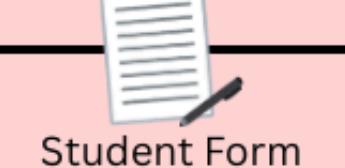
**Students forget
form deadlines.**

**Forms can
get lost.**

**Online form
submission
through email gets
disorganized.**



UB Student



Student Form



- What is my form progress?
- Is my form lost?
- What forms did I previously submit?

Form Accepted

Form Rejected

Problem Scenario

The Solution

**Centralized place
for student forms.**

**Consolidated history
of submitted forms.**

**Receipt
generation.**



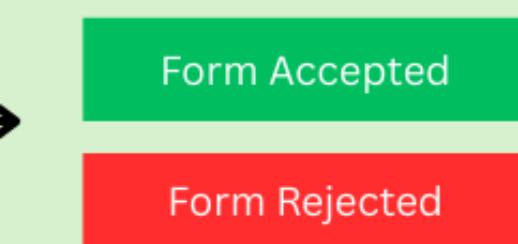
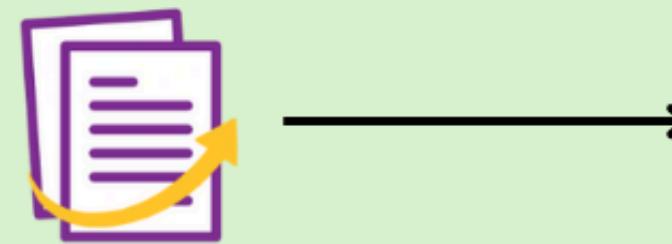
UB Student



Student Form



- Submit forms online
- Form receipt available
- Form progress and history available

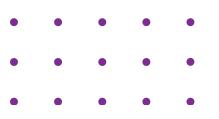


Form Accepted

Form Rejected

Solution Scenario
with UB FormFlow

Presentation Overview



01 Heuristic Evaluation (HE) Results

- A. Medium-Fidelity Prototype Testing at the FST STEM Fair

02 Revised Design

- A. Changes Made for the Hi-Fi Prototype

03 Prototype Implementation Status

04 Summary & Live Demo



HE: Severity 4

Unclickable Form Entries

- The upcoming form entries were perceived to afford clickability
- Nielsen Heuristic: Consistency & Standards (L)
- Caused users to think forms cannot be submitted online

Upcoming Form Deadlines

Users clicked here, but nothing happened...

The image shows a mobile application interface with a white background. At the top, there is a purple header bar with the text "Upcoming Form Deadlines". Below the header, there are two card-like entries, each representing a form deadline. Both entries have a red border and a red box drawn around the entire entry area.

Entry 1: Withdrawal Form (with exclamation icon) Due: November 15, 2025. To the right of this entry is a "Submit Form" button with a downward arrow icon.

Entry 2: Application for Program Completion (with exclamation icon) Due: November 20, 2025. To the right of this entry is a "Submit Form" button with a downward arrow icon.

HE: Severity 3

Navigation Item Positioning



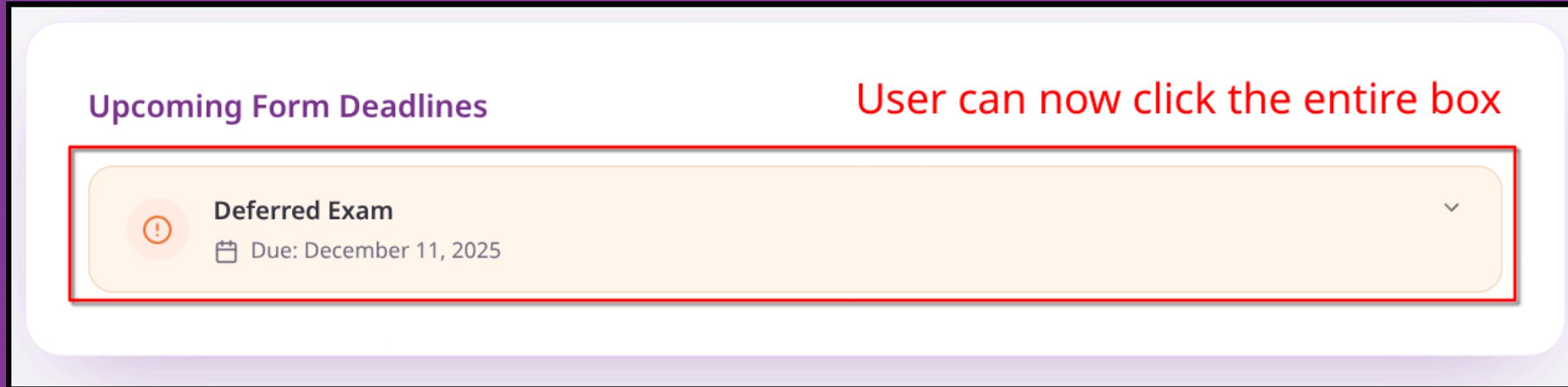
- Users did not notice Form History after logging in
- Nielsen Heuristic:
Visibility of System Status (S)
Consistency & Standards (L)
- Saccades were unnecessarily frequent

Revised Design: Severity 4

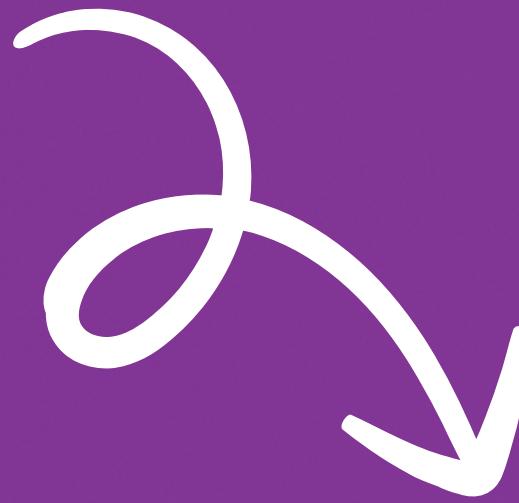
Unclickable Form Entries

Upcoming Form Deadlines

User can now click the entire box



Deferred Exam
Due: December 11, 2025



Upcoming Form Deadlines

Deferred Exam
Due: December 11, 2025

Request to sit a scheduled exam at a later date due to approved circumstances and payment of the deferred exam fee

[Submit Form](#) [Download Form](#)

Revised Design: Severity 3

Navigation Item Positioning

Medium-fidelity Usability Problem



High-fidelity Usability Changes

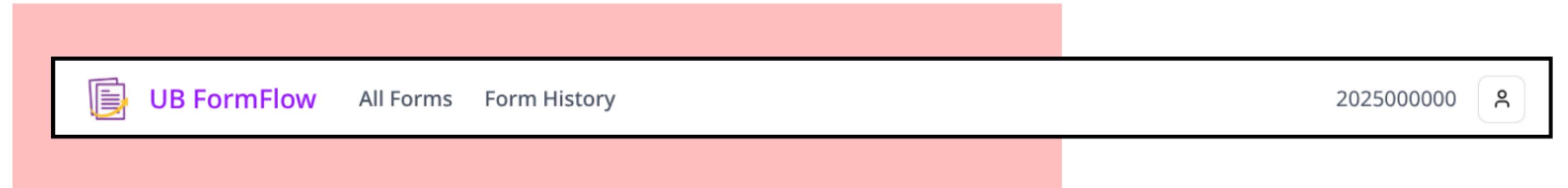


Revised Design: Other Changes (1 of 3)

➤ Using UB Color Scheme

➤ Nielsen Heuristic:
Aesthetic & Minimalist Design

Medium-fidelity Usability Problem



High-fidelity Usability Changes

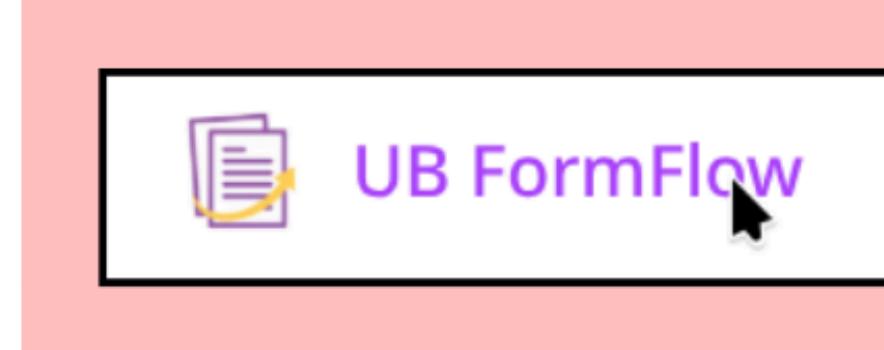




Revised Design: Other Changes (2 of 3)

- Click Cursor Pointer
- Nielsen Heuristic:
Consistency & Standards (L)

Medium-fidelity Usability Problem



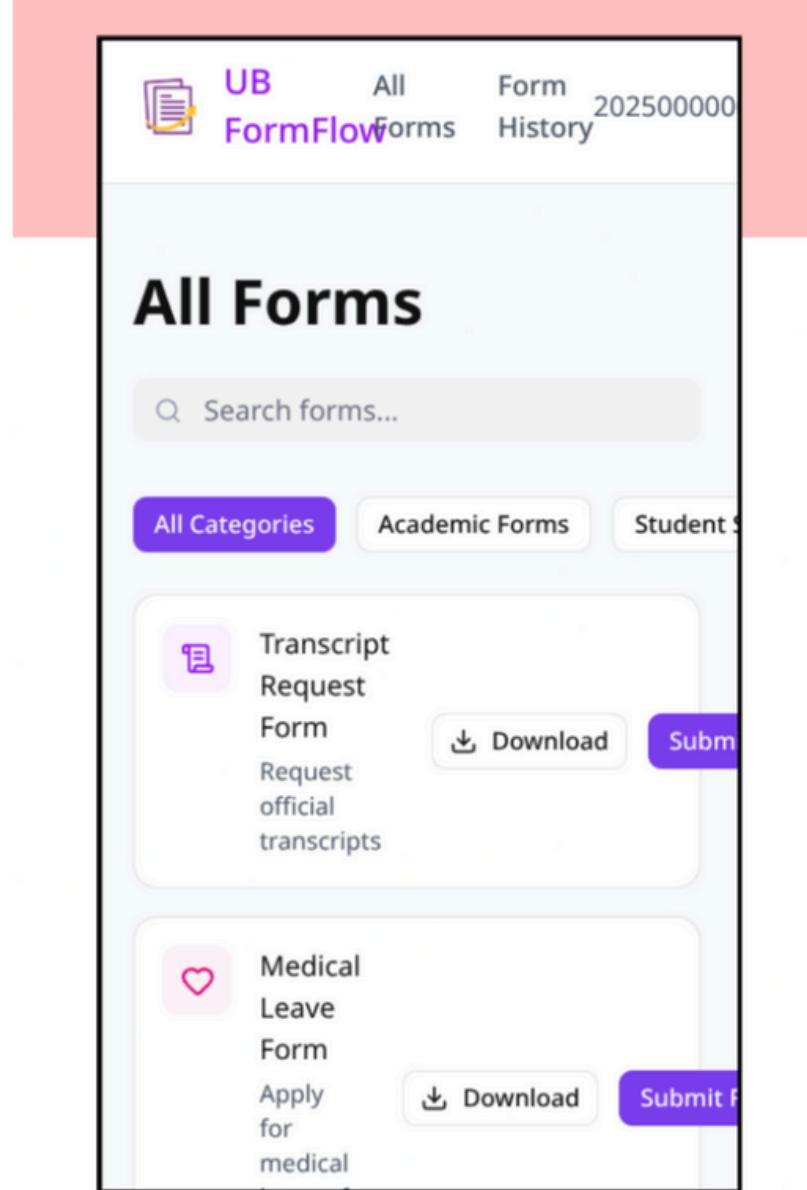
High-fidelity Usability Changes



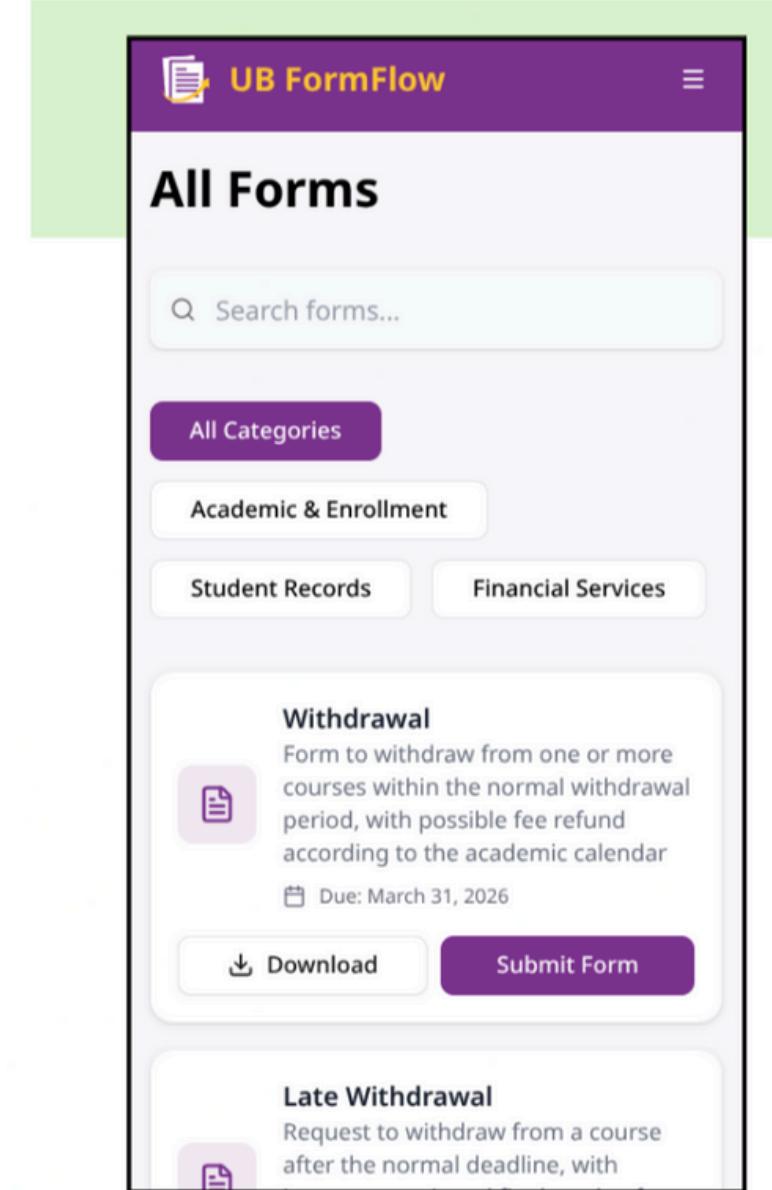
Revised Design: Other Changes (3 of 3)

- Mobile Responsiveness
 - Nielsen Heuristic: Consistency & Standards (L)

Medium-fidelity Usability Problem



High-fidelity Usability Changes



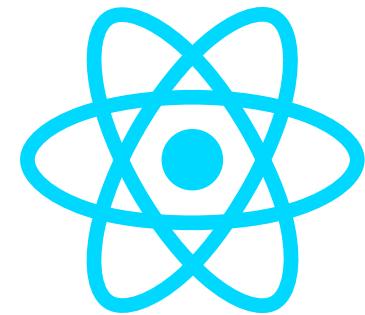
Prototype Implementation Status (1 of 3)

Tools:

- Next.js React web framework
- Typescript
- Visual Studio Code
- Supabase (backend)
- Component libraries (Radix UI, Shadcn UI)
- Other libraries (React PDF)
- Tailwind CSS

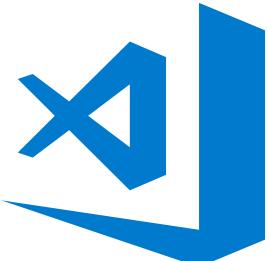
AI Tools:

- GitHub Copilot
- Google Antigravity

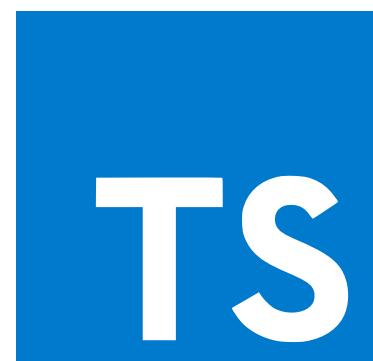


React

~~NEXT~~.JS



Visual Studio Code



tailwindcss



Prototype Implementation Status (2 of 3)

Implemented Features:

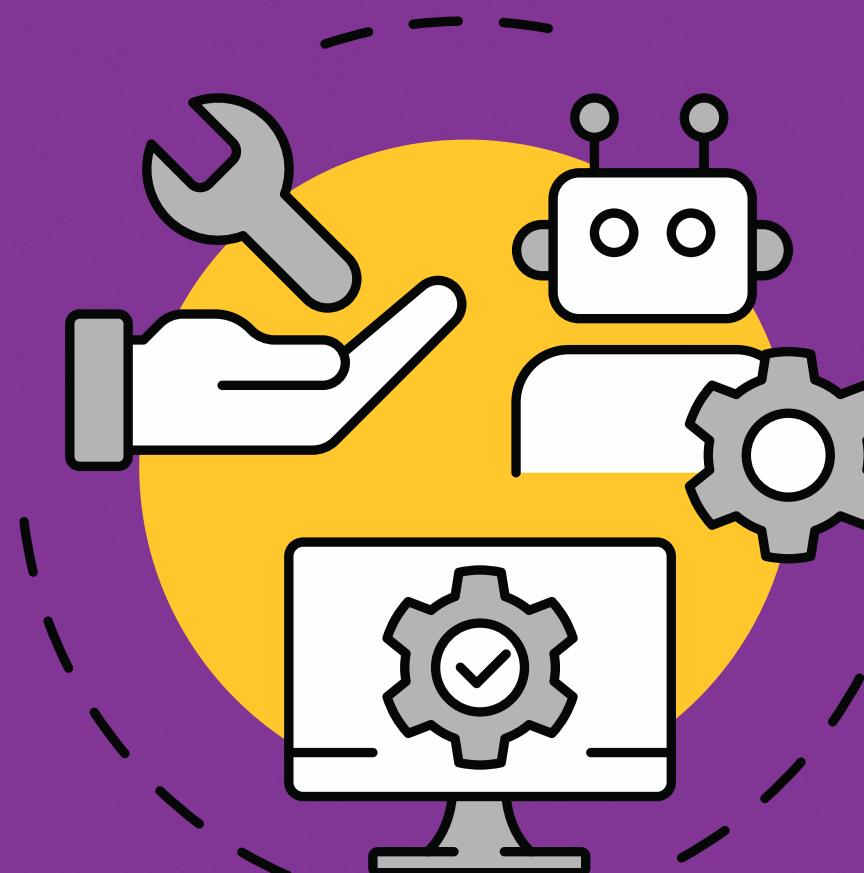
- All three main tasks

Unimplemented Features:

- Forgot Password functionality
- CRUD - Student can't delete or edit submitted forms
- More relevant information on generated PDF receipt
- University staff/faculty perspective (dashboards)

Plan:

- Incorporate AI into form processing
- Revise the database and codebase
- Add unimplemented features



Prototype Implementation Status (3 of 3)

Wizard of Oz Techniques:

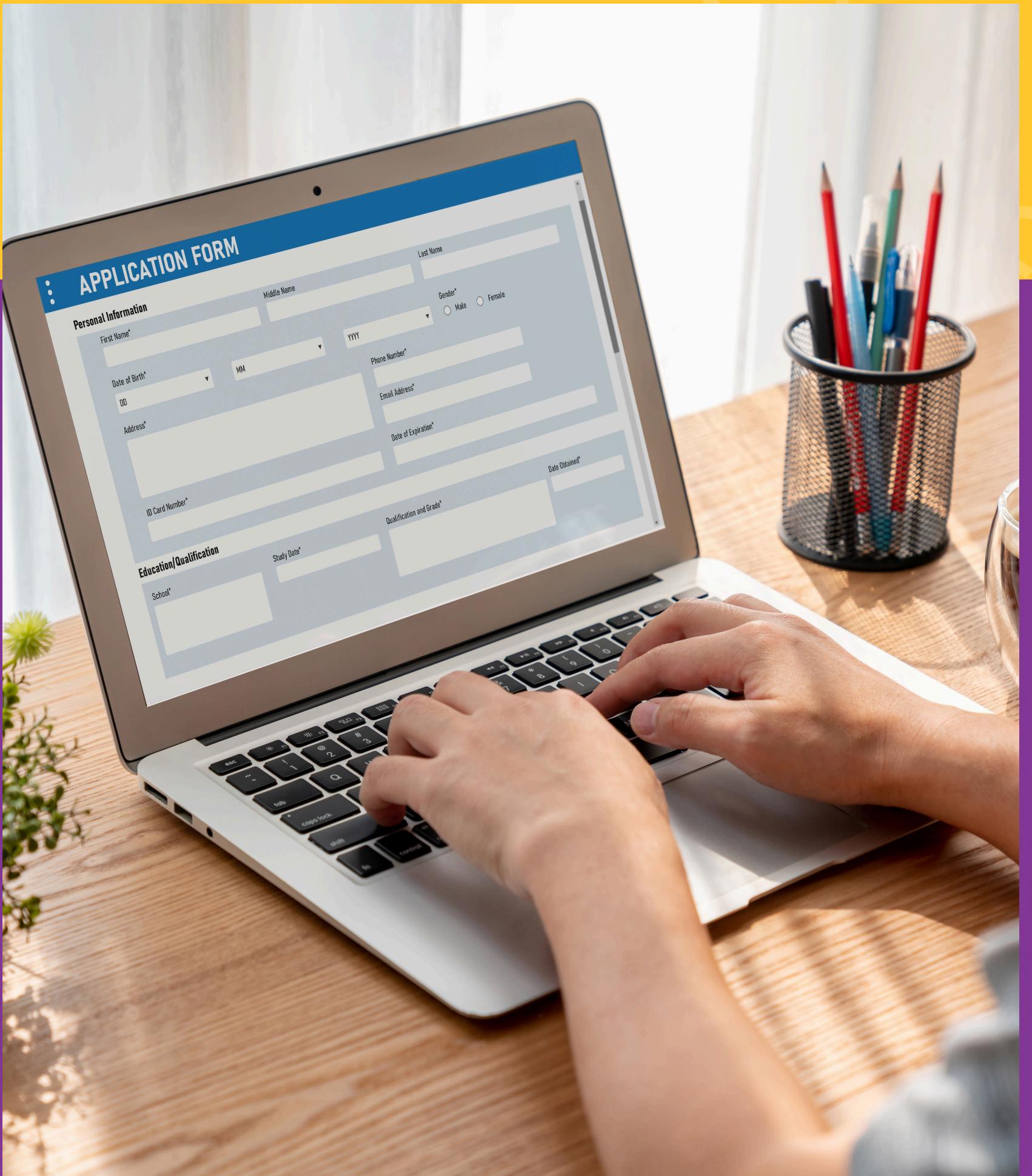
- None used - Supabase backend and codebase provide the minimal functionality

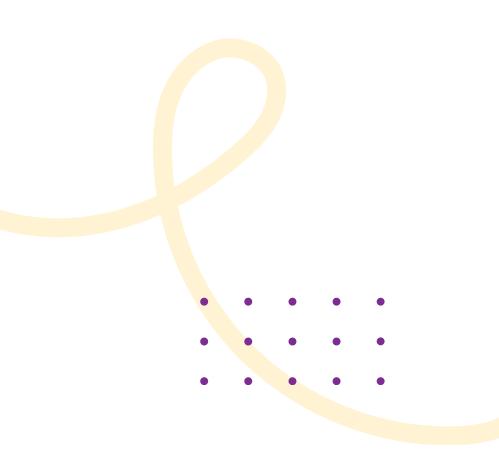
Hard-coded Data:

- Only the subset of student forms uploaded to the database

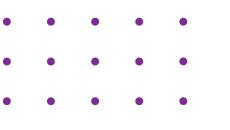
Issues:

- Integrating Xenegrade
- More needfinding interviews
- More time

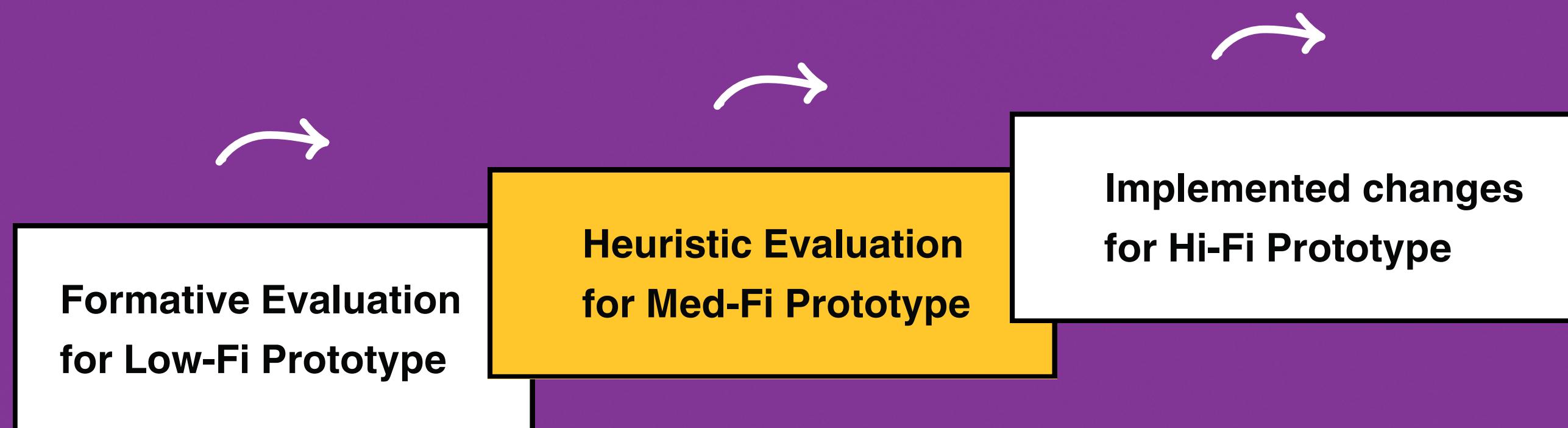




Summary & Live Demo



- UB FormFlow reimagines the form experiences for UB Students
- Development incorporated user-centered design



- Hi-Fi Pototype implements the three main tasks
- Future development to be done

Live Hi-Fi Prototype Demo:
<https://ub-formflow-hifi.vercel.app/>

CodeCraft Solutions



Thank
you! :)



Thank You!