



FIU

**Engineering
& Computing**

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For Seyedmasoud Sadjadi's Capstone II, Fall 2025

Problem Overview

Without a direct teacher, learning anything is difficult. For programming specifically, it's easy to learn incorrect logic that becomes harder to fix later. Starting at the logic level and building your understanding step by step is important. **How do we make this easier for beginners?**



Proposed Solution

Creating an easy, segmented way for people to naturally learn to program. By giving users problems that match the topic and the difficulty level they choose, **we help them build their logic correctly from the start.**



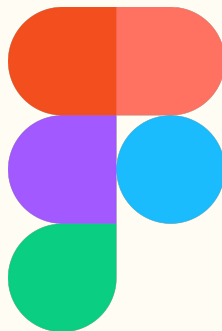
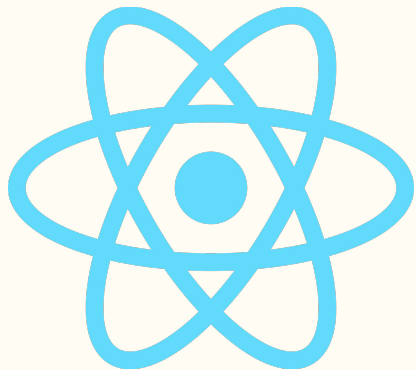
Core Features

Difficulty Levels – Lets user select a question set & learn at their own pace

Large Question Bank – More than 1,000 questions spanning multiple programming topics

Smart Randomization – Correct answers are removed from future rotations, avoiding repetition

History Tracking – Full history of past questions, allowing user to see visible improvement & retake questions



- React Native
- JavaScript
- TypeScript
- GitHub
- Figma
- Copilot
- ChatGPT

Technology Overview

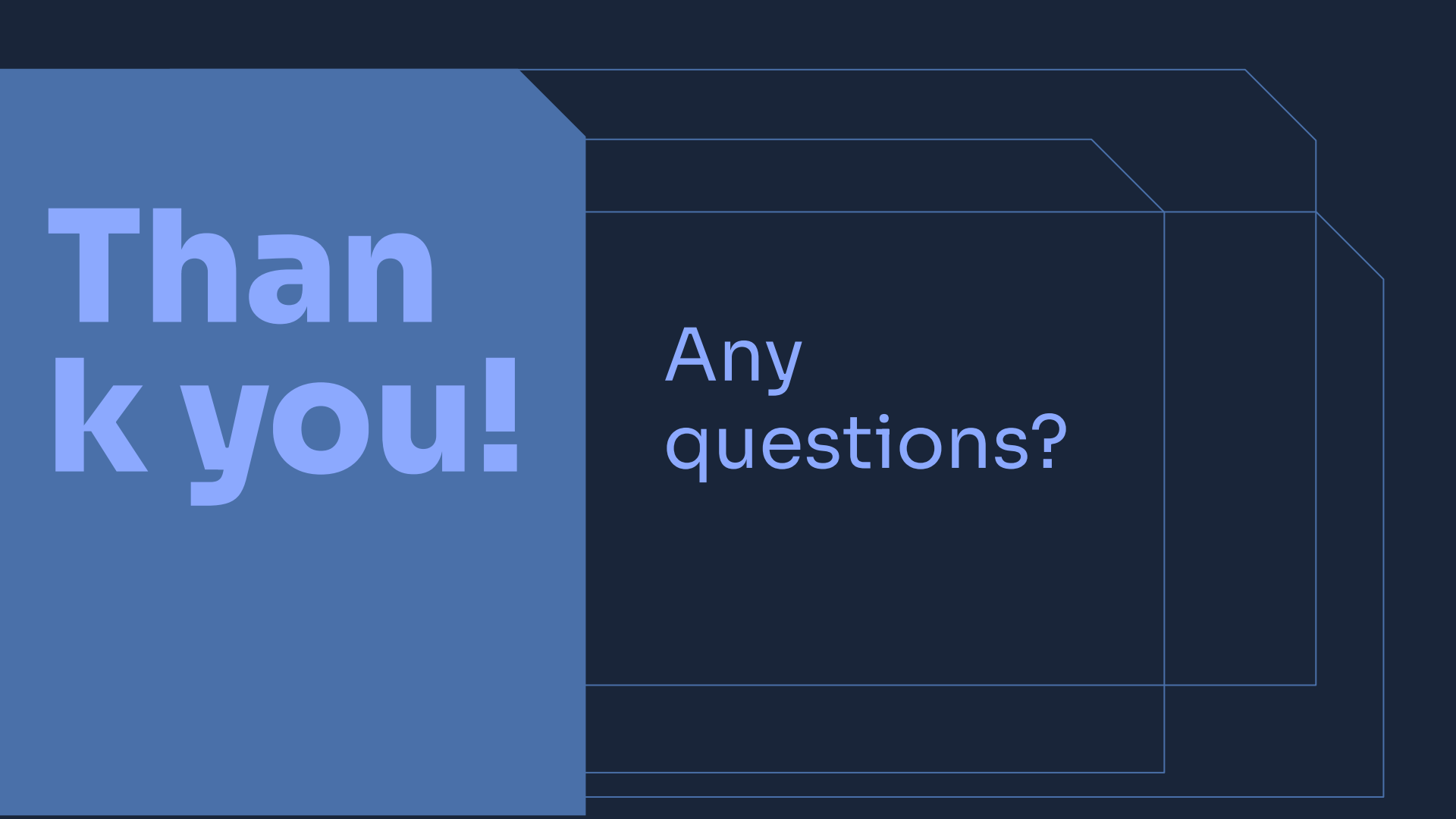


Demo



Future Work

- Add AI integration to give explanations and guidance after each question
- Introduce **AI powered difficulty adjustments** based on user performance
- Expand the question bank and add more programming topics
- Add **progress tracking** and **analytics** to show user growth over time
- Improve UI design and create a smoother learning flow



Thank you!

Any
questions?