

Overview

The Team Recommender System enhances collaborative learning by using machine learning to help form balanced and compatible academic project teams. It offers potential optimized team configurations, allowing for instructors and students to be part of the decision-making process while considering member diversity and skills to improve team formation.

Project Goal

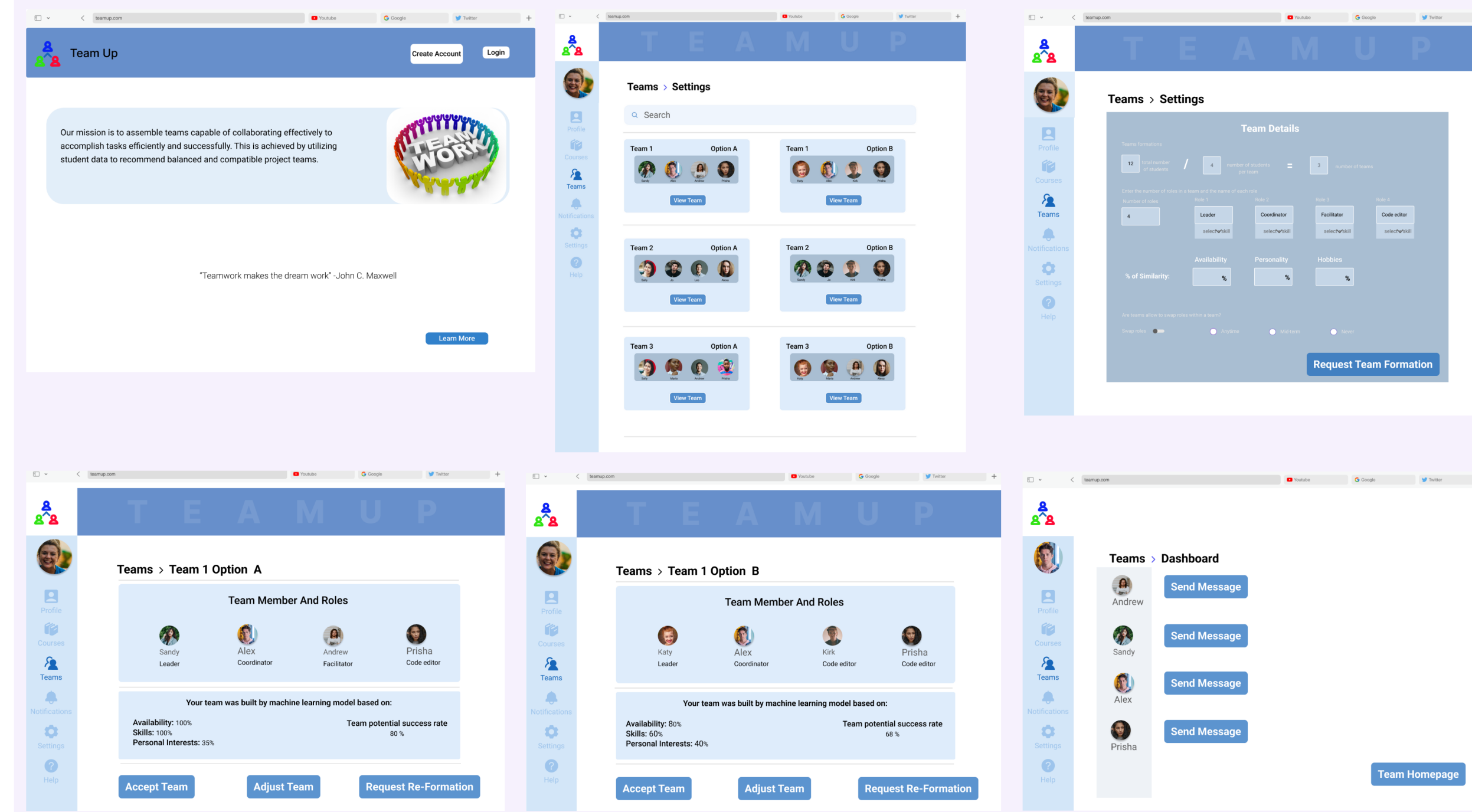
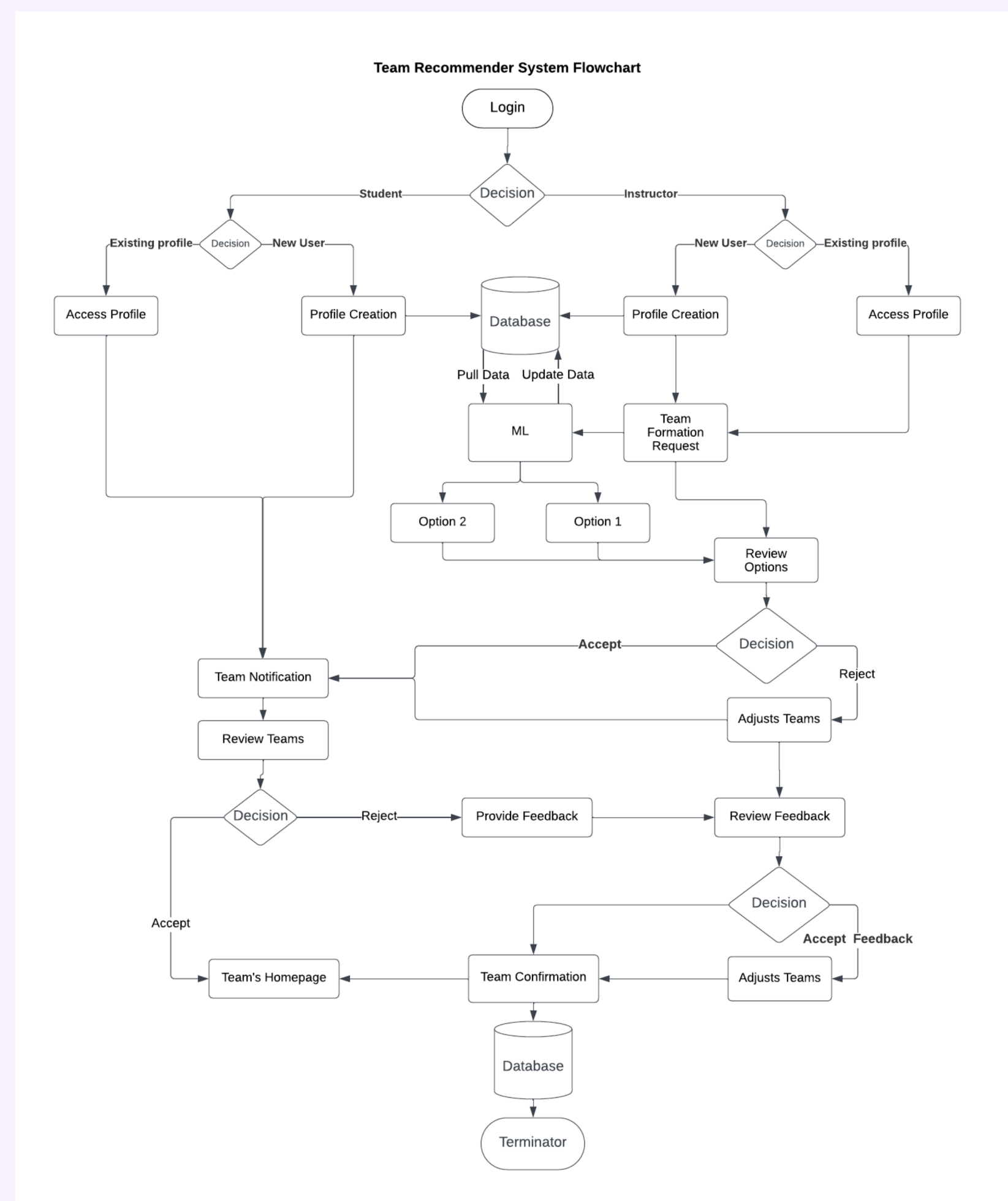
We aimed to create a front-end that integrates with our machine learning model, allowing instructors to receive and interact with team recommendations easily. This facilitates efficient, inclusive team formations to boost collaborative learning.

Challenges

User Interface Design: Creating an intuitive and powerful interface to present complex team compatibility and balance required a sophisticated approach.

User Feedback Incorporation: Collecting and applying usability study feedback to improve the design posed logistical and developmental challenges.

Work Flow



Solutions

Advanced Tools: Using Figma for UI/UX, GitHub for document sharing, and Lucidchart for workflows made our development process collaborative and efficient.

Iterative Design: Usability studies pinpointed improvements, leading to design updates in Figma that boosted interface functionality and look.

User-Centric Features: Added functionalities like instructor-led team modifications and student preference submissions improved engagement and system adaptability.

Technologies



Next Step

- Implement the front-end component for integration with the machine learning backend.
- Continue refining the UI based on user feedback to enhance usability.
- Test the system in real academic settings to validate its impact on team formation and learning.