UniSync – Assignment #4

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Part 1: User Stories

As a new university student, I want a voice assistant that can guide me to my classes so that I can navigate campus confidently and arrive on time.

As a student with accessibility needs, I want UniSync to integrate with campus apps like Canvas and Corq so that I can easily access academic information and campus events in an inclusive way.

As a student exploring campus life, I want to complete an interest form and receive personalized recommendations for clubs and events so that I can quickly get involved in activities that match my interests.

As a busy student, I want UniSync to organize my schedule, deadlines, and reminders in one place so that I can stay on top of my academic and extracurricular commitments.

As a professor or staff member, I want UniSync to provide accurate responses to frequently asked questions so that I can reduce repetitive inquiries and focus on higher-level teaching or advising.

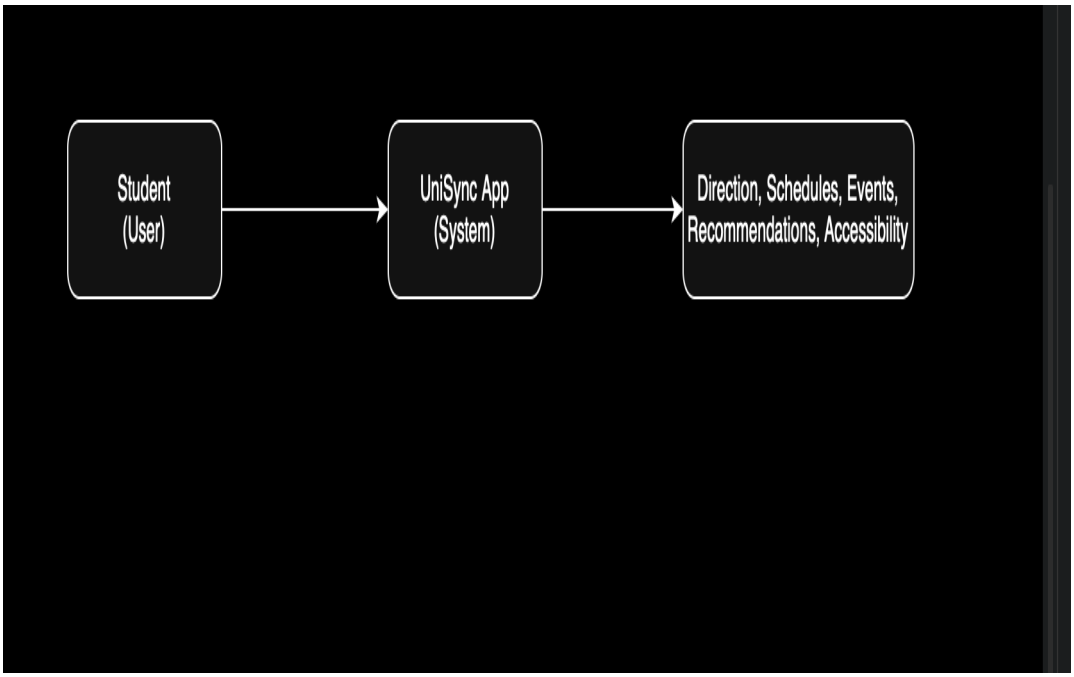
Part 2: Design Diagrams

Project Title: UniSync – A Voice Assistant for University Students
Goal Statement: UniSync is designed to help students navigate campus life by providing directions, schedules, event updates, personalized recommendations, and accessibility support through AI/ML-powered voice and text interaction.

Diagram Conventions

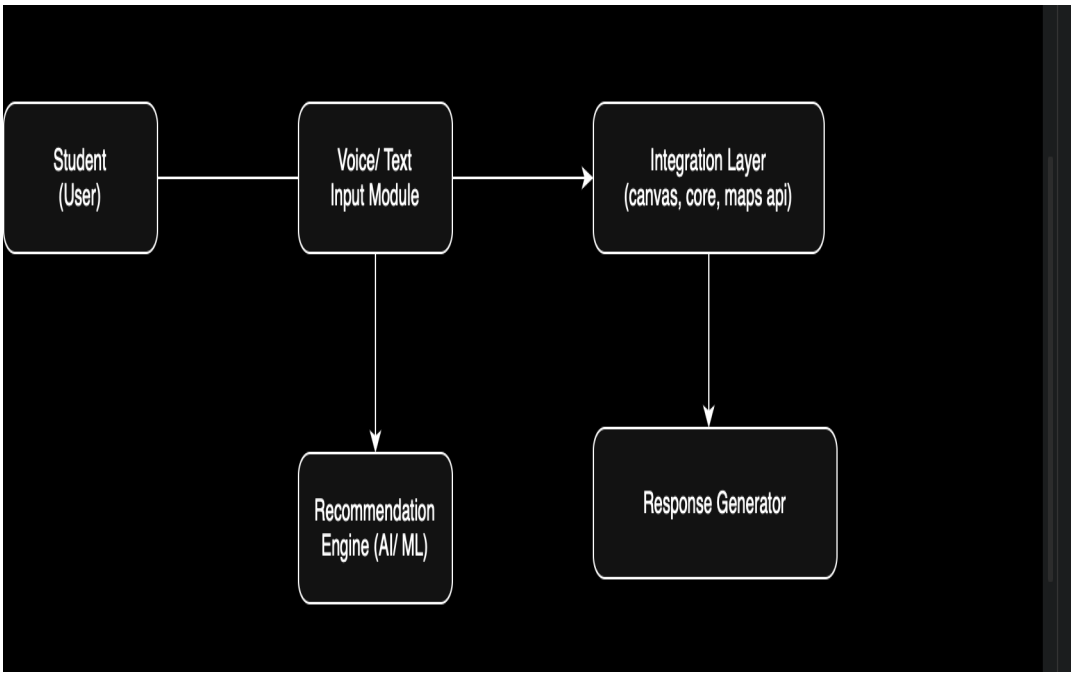
- Boxes represent system components, modules, or actors (e.g., Student, Voice Recognition Module).
- Arrows/Lines represent the flow of data or interaction between components.
- Labels on boxes indicate the role or function of that element.
- Inputs/Outputs are represented by arrows entering or leaving the system (student inputs vs. system outputs).

Design D0 – High-Level View



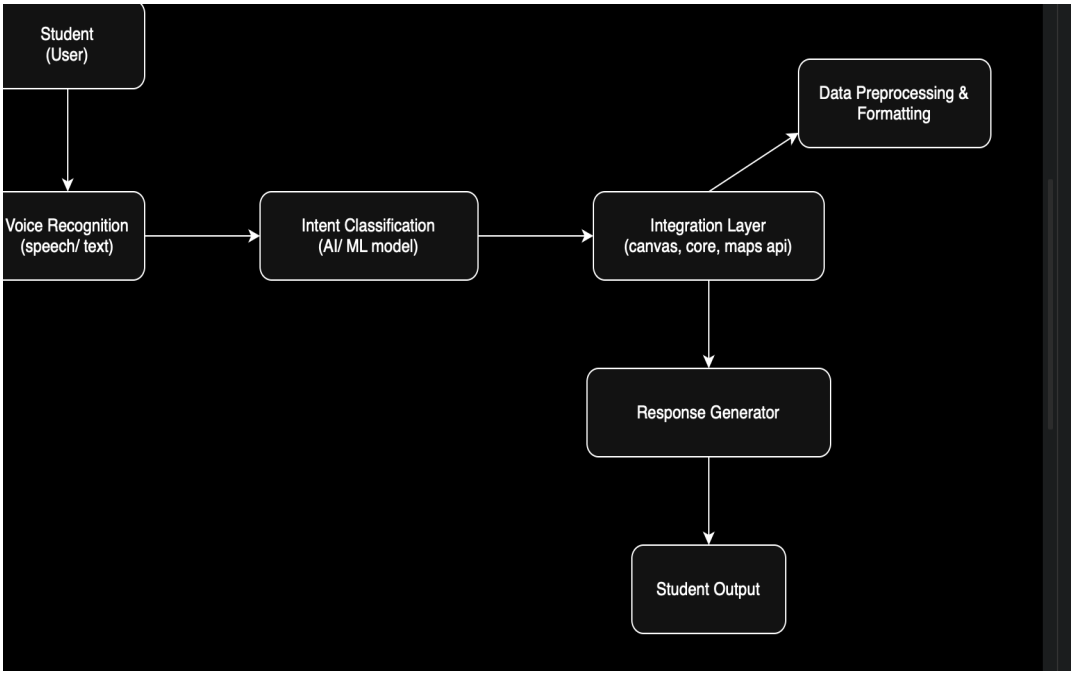
This diagram shows the simplest view of UniSync. Input: student provides requests. System: UniSync processes those inputs. Output: directions, schedules, events, recommendations, and accessibility support.

Design D1 – Subsystem Breakdown



This diagram elaborates on the modules inside UniSync. It shows Voice/Text Input, Recommendation Engine, Integration Layer, and Response Generator, and how they interact.

Design D2 – Detailed System View



This diagram provides the most detailed look at data flow, including voice recognition, intent classification, external API calls (Canvas, Maps, Corq), and final output generation.