

# Last year project redesign

- What is it? What makes it different from existing products, in technology and in utility?

- A learning platform for campus students where the core features are the ability to make personalized learning path and student message analysis.
- Two AI integrations
  - Personalized learning Engine (PL Engine)
  - Discussion analyzer

## ... Core Components

- Personalized learning Engine - *Student Use Case*
  - Uses LLM to identify weak points of a student
  - Generates a learning path instance
  - Recommends to other by rating
- NLP-based discussion analyzer - *Teacher Use Case*
  - Fetches data from discussion forums and categorizes "**hot topics**"
  - Gets message embedding and clusters similar messages
  - Categorize students with similar learning pace for the PL - Engine (?)

## User Personas

- Admins: Oversee the use of the platform
  - User Account Management - both teachers and students
  - Responsible for migrating student and teachers data
- Teachers:
  - Responsible for creating and managing classrooms
  - Can make announcements
  - Create checkpoint assessments
  - Can get learning analytic for the class: Analytic
    - Assessment scores statistic
    - Hot topic generated from the discussion
- Students
  - Join classrooms
  - View announcements
  - Join discussions
  - Get personalized learning path with recommendation

## Classrooms

- virtual rooms per topic/course specified by the creator
- Views:

- Teacher-side
  - Discussion Forum
  - Announcement Channel
  - Test Center
  - Analytics
- Student Side
  - Discussion Forum
  - Announcement Channel
  - Test Center
  - PL - Engine

## Removed Features

- No dedicated chat-bot
- No individual student analytic