



Bits Unplugged.web.app

CSE 326 : Information System Design

BITS UNPLUGGED

A new generation learning platform

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Use links to go to a different page inside your presentation.

Highlight text, click on the link symbol on the toolbar, and select the page in your presentation you want to connect.

MOTIVATION



Learning algorithms with fun

Traditional Platforms Bits unplugged

CS for kids is complicated

Interactive learning system

Intuitive Data Structures

Visual DS and algo

Slow answers in forums

AI Chatbot for faster query

Finding appropriate challenges

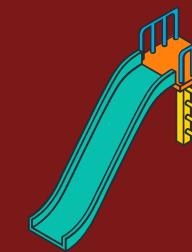
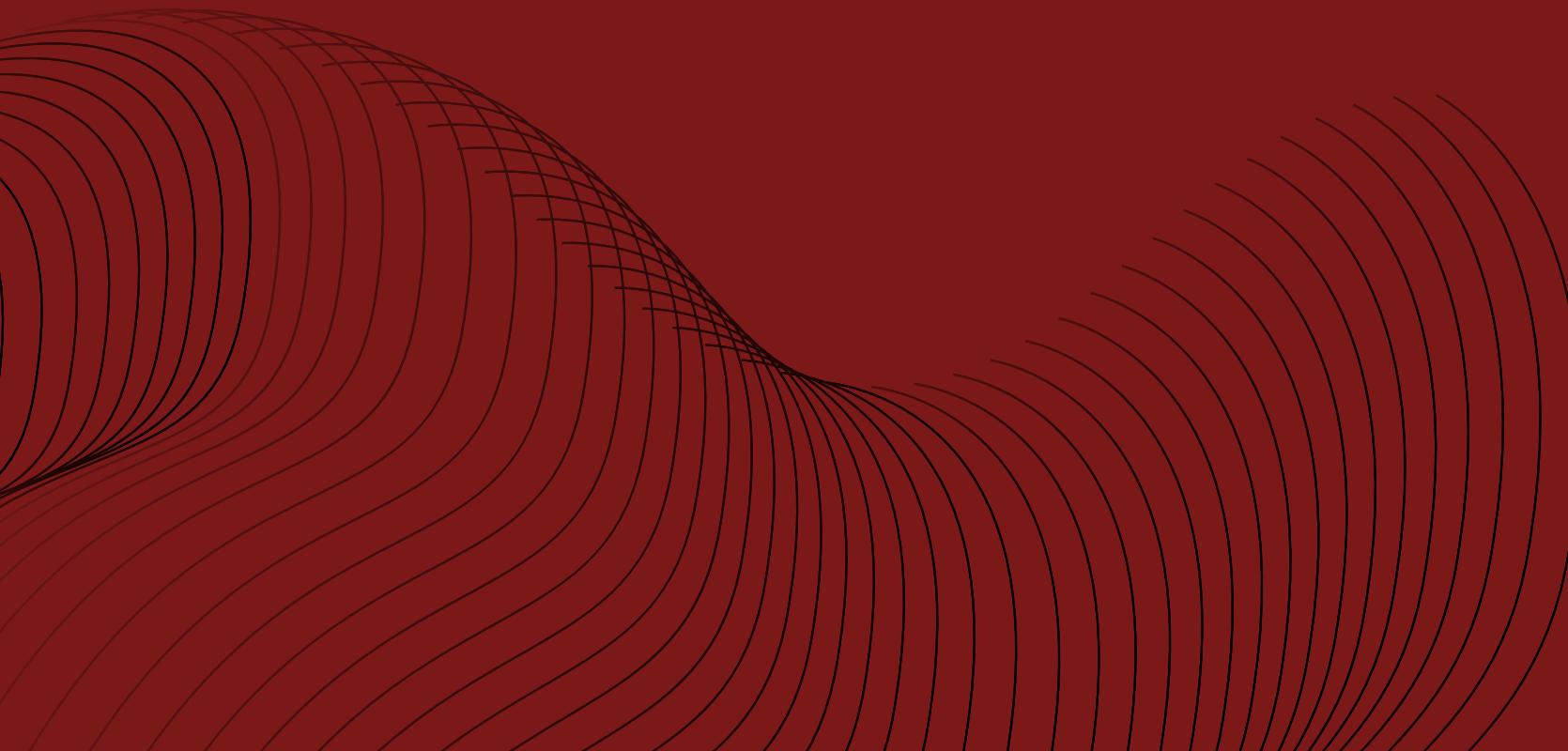
Personalized problem suggestion



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OUR MODULES

The modules that we are proposing



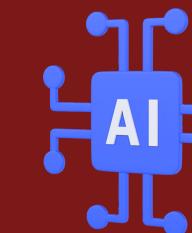
Playground

Interactive platform for different algorithms



Levelwise problems

Problems for the algorithms in our platform



AI Assistant

AI chatbot for QuestionAndAnswer



Personalized Problemset

Suggested problems based on prev performance



User Dashboard

Modern dashboard for tracking progress

PLAYGROUND

- **Topic based resources**

Videos, articles, tutorials etc. on that topic

- **Problem designer canvas**

A canvas where users can design problems
by a simple drag n drop interface

- **Solution check**

User can submit and verify their solutions

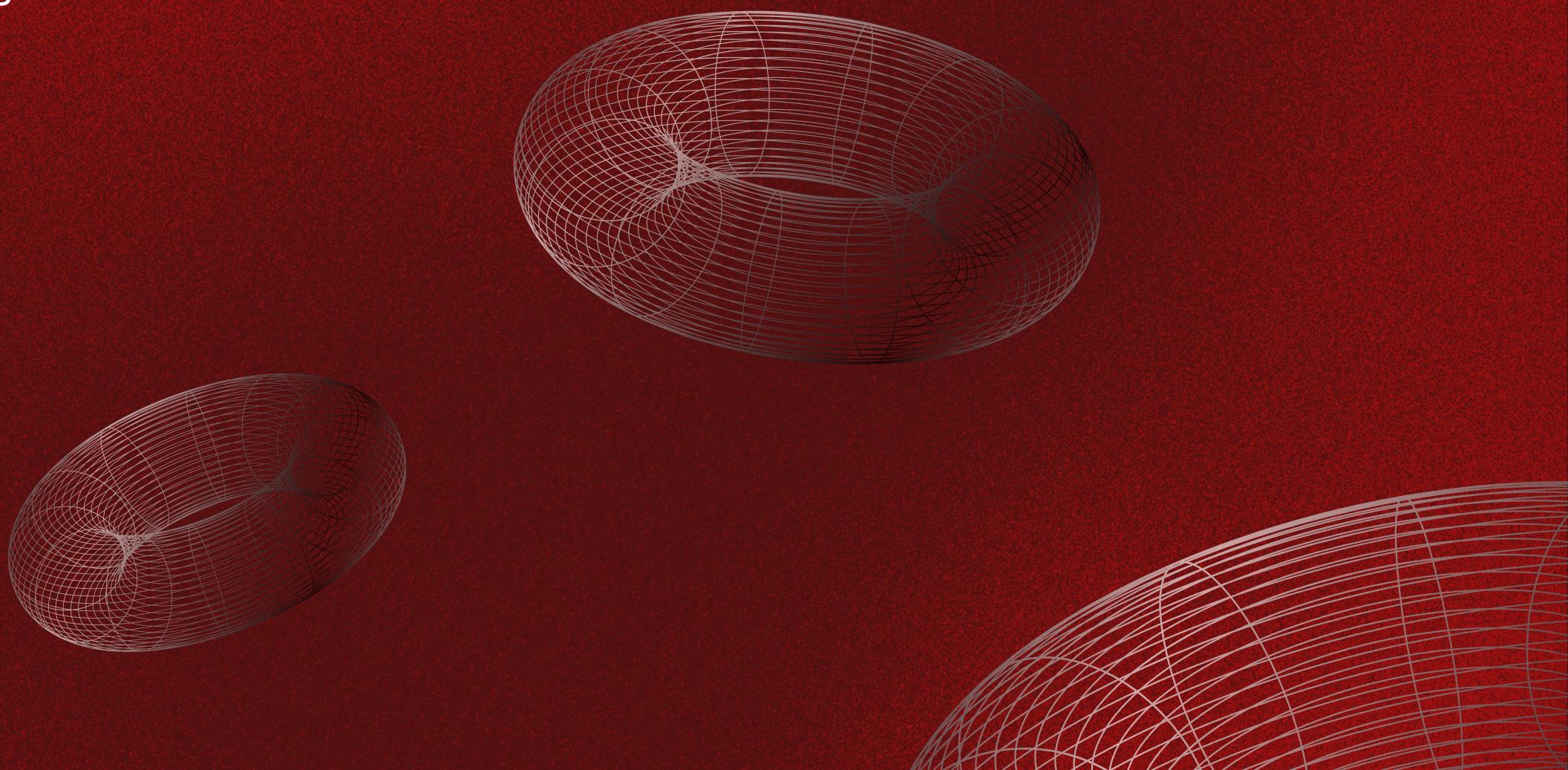
- **Stepwise simulation**

Simulating the solution of the designed
problem by the user

- **What next**

A suggestion for the user for what to
learn next

Interactive platform for different algorithms



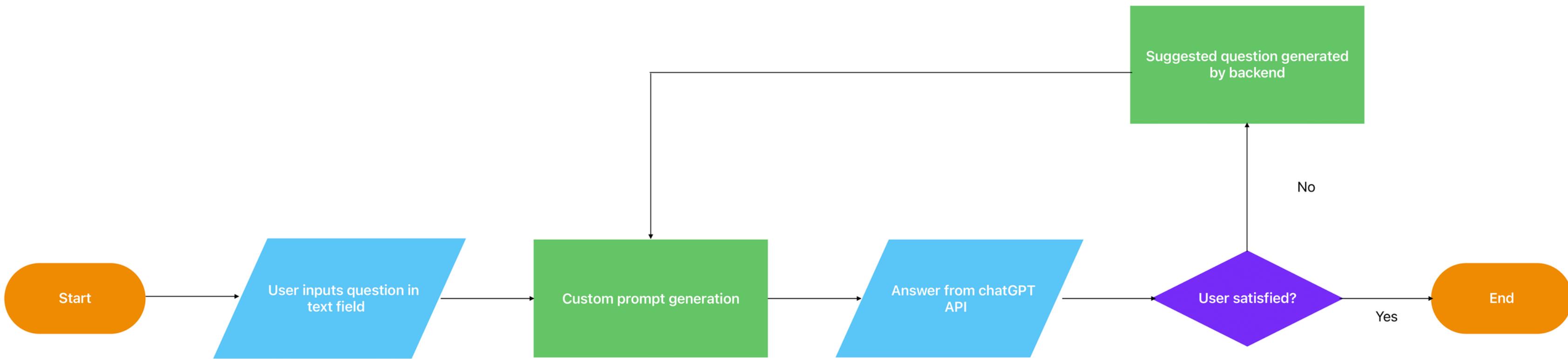
LEVELWISE PROBLEMS

Problems for the algorithms in our platform

- **Levelwise problems**
Beginner, Intermediate and Expert level problems for each topic
- **Topic wise problems**
Custom problems designed for particular algorithms
- **Tracking**
Users can see which levels they have solved already

AI ASSISTANT

AI chatbot for Question And Answer



PERSONALIZED PROBLEMSET

Suggested problems based on prev performance

- **Topic wise score (Hidden)**
We keep score of users on different topics and suggest problems based on that
- **Problem suggestion on weak topics**
We'll suggest problems for topics with low scores
- **Ranking**
Users will be provided with a ranking based on their topic wise scores

USER DASHBOARD

- **User information**

Basic user information in the

- **Topicwise user score**

Users can see their scores for particular topics and problems

- **Suggested topics**

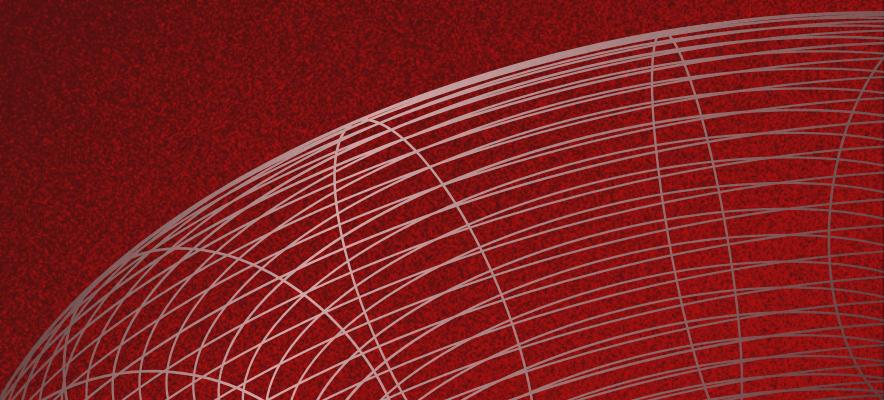
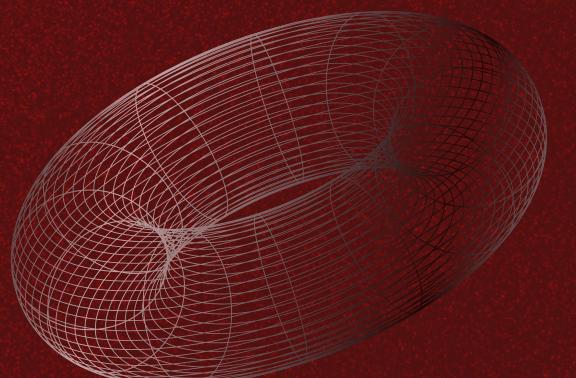
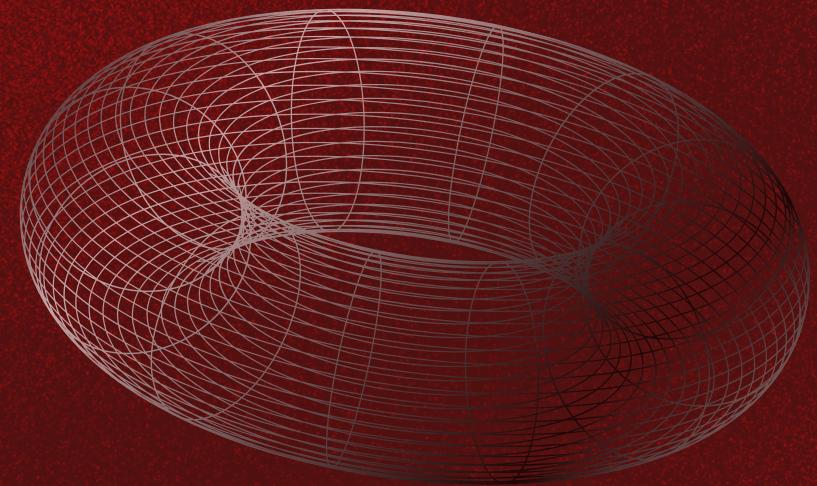
Suggested topics based on the solved problems and learned topics

- **Heatmap**

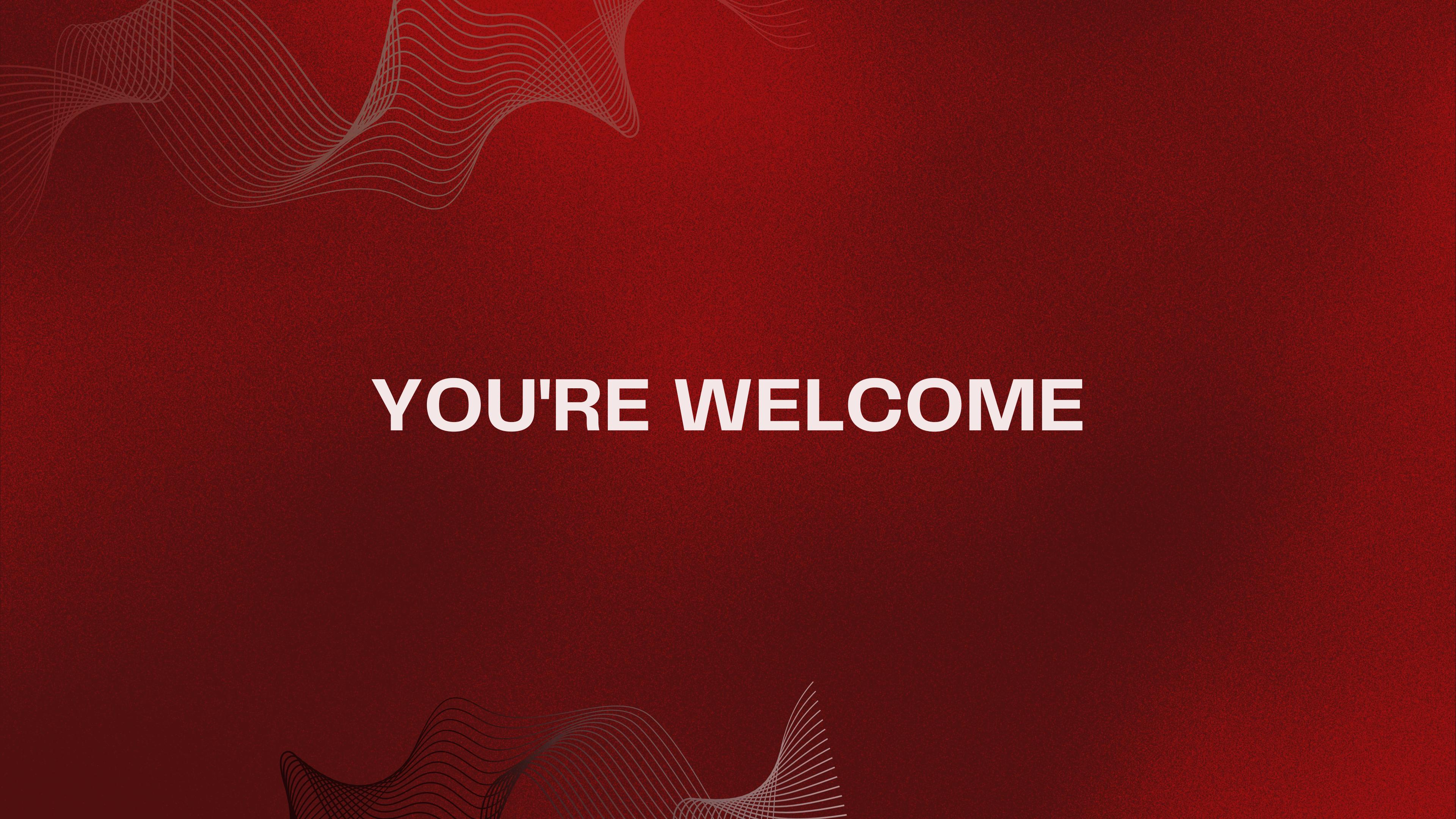
Performance heatmap based on the active time of the user

- **User Ranking system**

User ranking systems that can be set to anonymous



Modern dashboard for tracking progress



YOU'RE WELCOME