

# Mentor System

By Nuran G, Ioav L,  
Maria V, Nadia H  
Team MNNI

Maria

loav

Frontend+  
Backend

Nuran

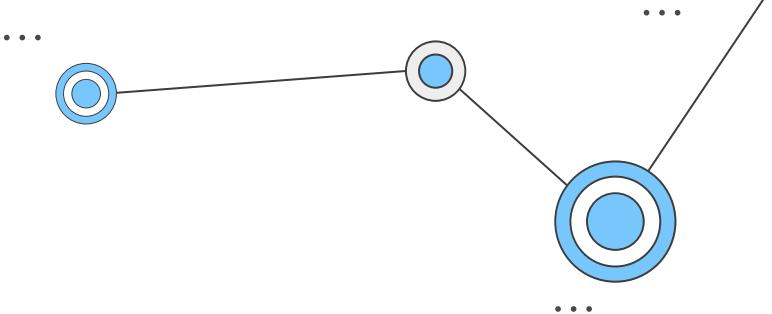
Frontend+  
Backend

Maria

Matching Algo +  
Backend

Nadia

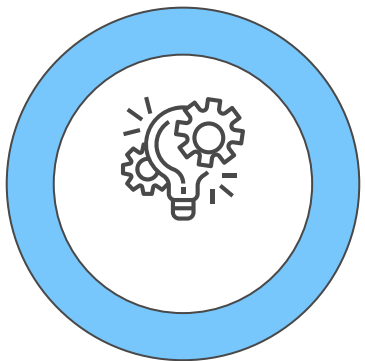
Frontend+  
Backend



# Our team

Breakdown

Maria ...



# Our Purpose

The purpose of our project to create a simple user-friendly system where high school students can freely ask college students any kind of question they want.

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# Our Motivations



Programs are  
too  
complicated

...



There aren't enough  
programs that  
entails mentorship  
between high school  
and college students

...



Many programs  
require payment

...



# Software Engineering Model



## Incremental Model

- Allows us to test periodically
- Provides flexibility

# Our Simple Approach



# Planning

## Learn

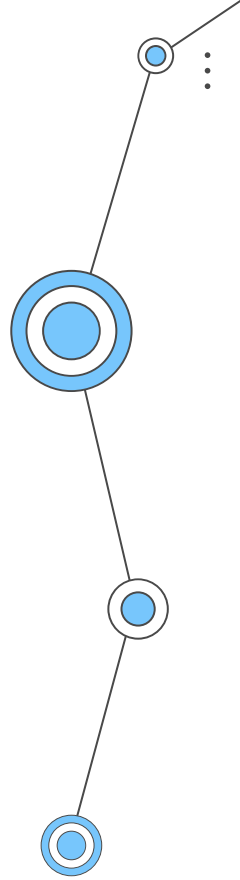
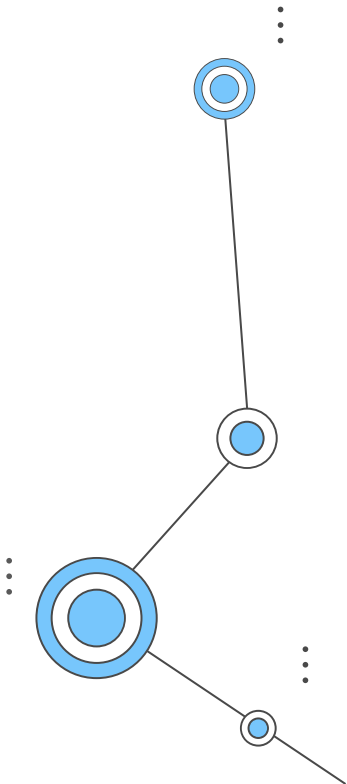
First step was to learn all of the languages

## Design & Execute

We coded the logic behind the pages

## Debug/Edit

Our last step was to debug and edit the pages so that they look how we want



# User Requirements

## Mentor

Selects and answers questions

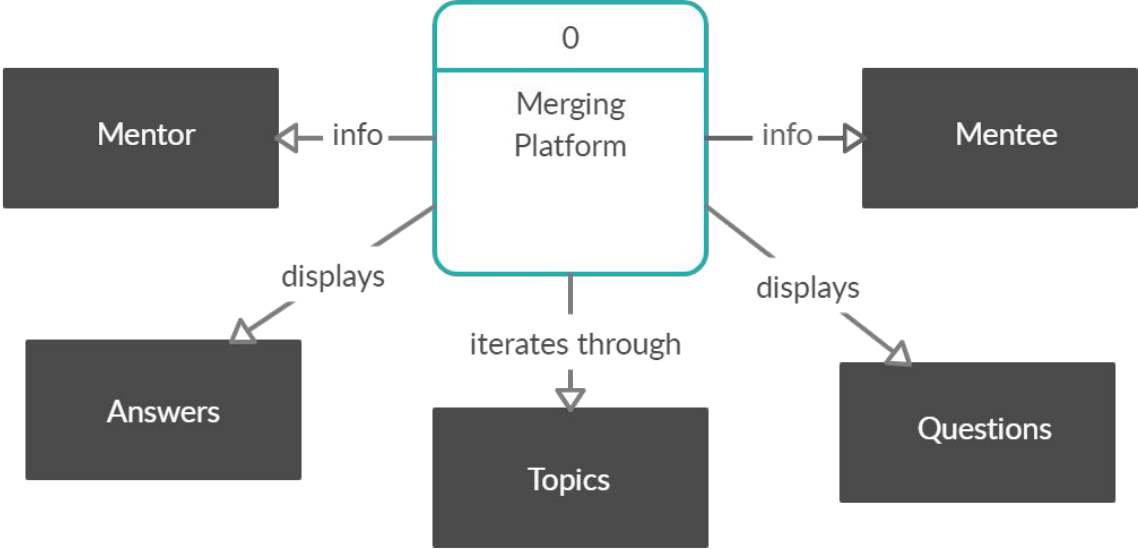
## Mentee

Selects a topic and posts a question

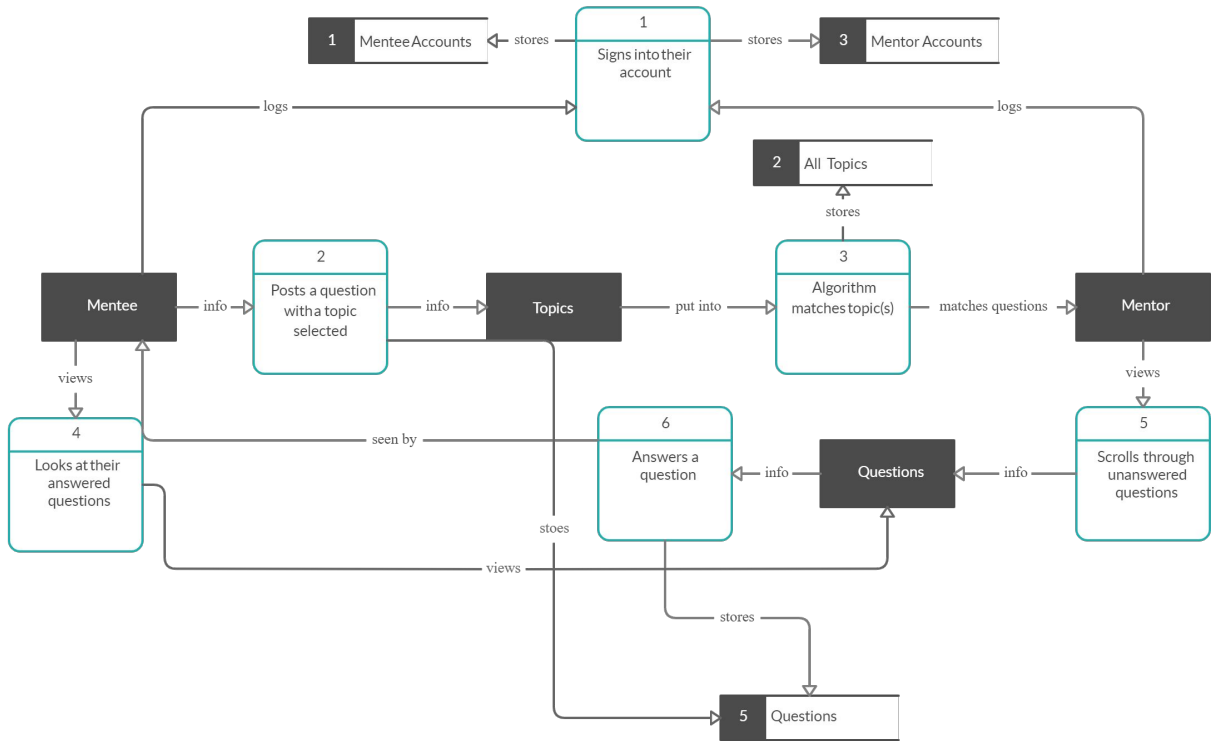




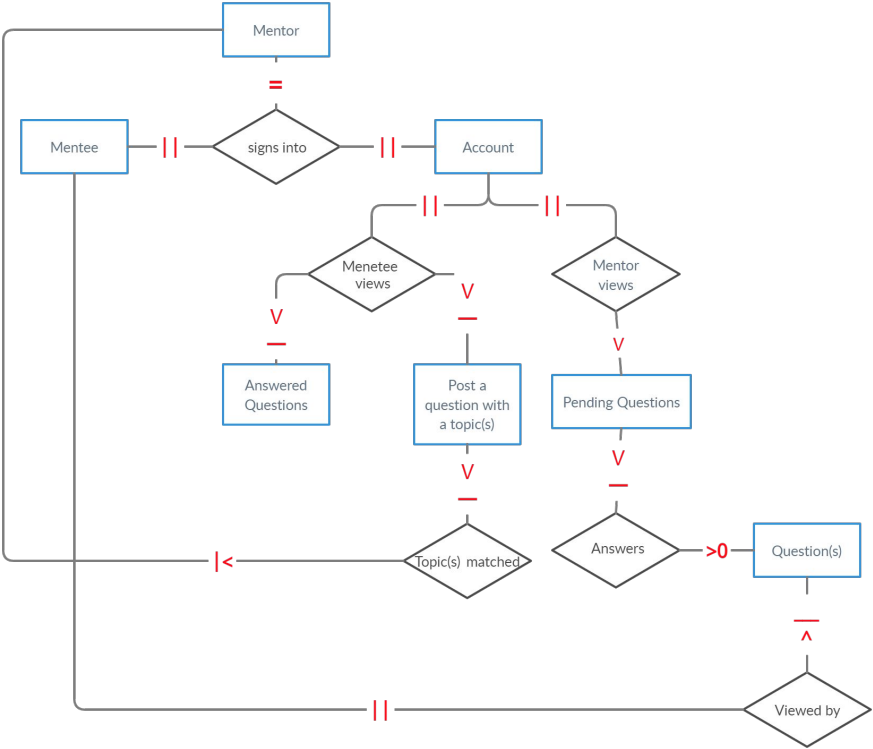
# Context



# DFD

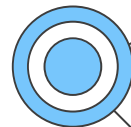


# ERD





# Libraries, Tools & Technologies



01

PHP + HTML, CSS,  
JS, Bootstrap

We used these to develop our  
website and make it more  
sustainable

02

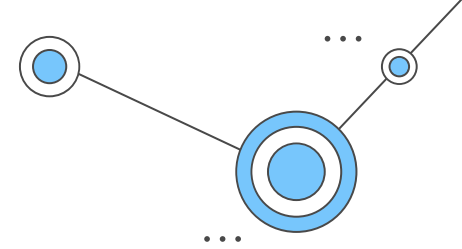
phpMyAdmin/SQL

This served as the  
backend database

03

Matching Algorithm

Makes it so it's easier  
for users to find/  
answer questions



# Table Schemas

Users table

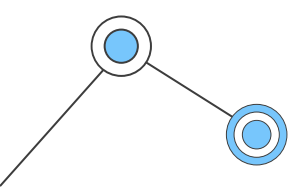
id	university	graduation	username	password	email	type
23	NYU	May 2021	Mentor	*23AE809DDACAF96AF0FD78ED04B6A265E05AA257	mentor@nyu.edu	Mentor
24	NYIT	May 2023	Mentee	*23AE809DDACAF96AF0FD78ED04B6A265E05AA257	mentee@nyit.edu	Mentee

Mentors table

id	username	topics
17	mentor	Loan,Tech,Law,Courses,Teaching,Opportunities,Tuiti...

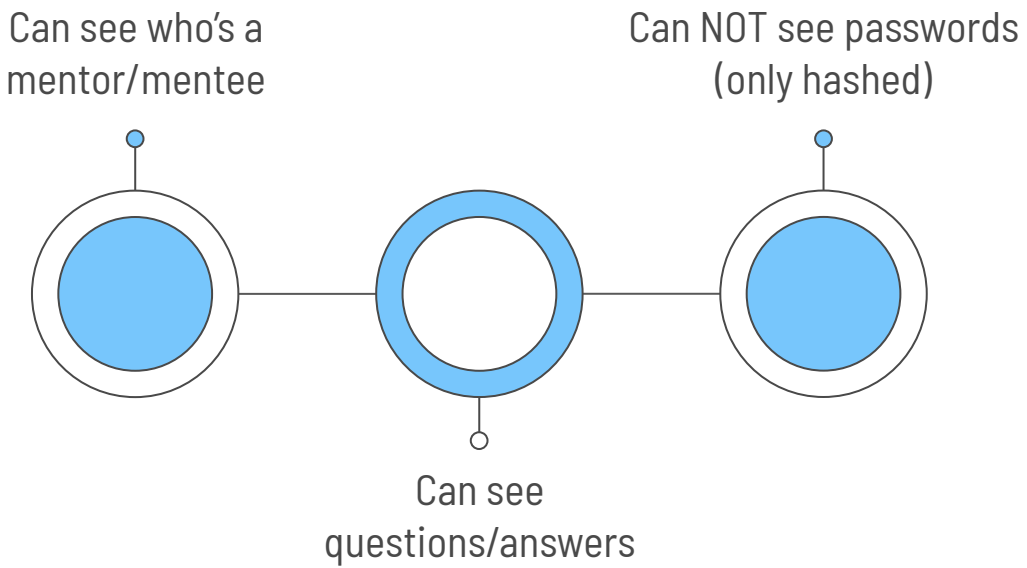
Questions table

id	1	question	answer	topic
	1	How do I get a loan?		Loan
	1	What are the best majors/minors?		University,Major,Minor
	1	How is it like living in the dorms?		Dorm
18		How do I apply for a job on campus?	You go to bursar	City,Job,University



loav

# Admin Side



# Security/Validation

### Sign Up

Name of university:

Anticipated graduation date:

Username:

\* Username is required

Email:

\* Email is required

Password:

\* Password is required

Type:

[Sign up](#)

[Already have an account? Log In](#)

localhost says

Please fill out all required fields

OK

- Username, email, password, and account type are required fields.
- We send an alert when any of these fields are left blank or invalid.

Maria

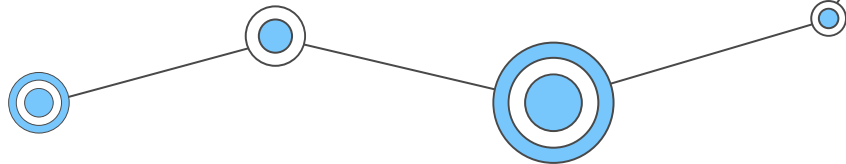
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# Communication

...



- Text messages
- Email
- Github
- Zoom
- Project list/board
  - Assigned tasks to each other



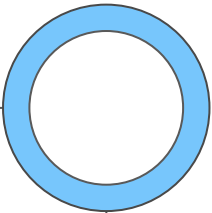
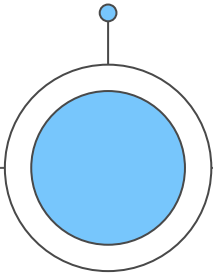
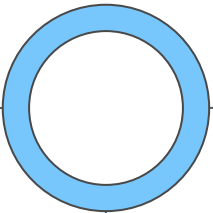
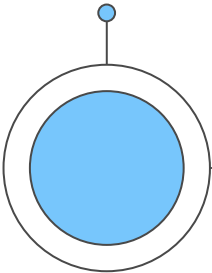


# Challenges



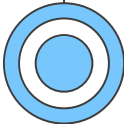
We originally had our code in java, but with feedback realized that probably would not create the best UI

Having to switch to PHP and create this project within a matter of a few days



Code base transfer between our teams because of the lack of system requirements

Not being experienced in the languages





# Testing

## Functional Testing

For the sign-in page, we tried different scenarios

## Unit testing

Made sure each component was working each step of the way



# Limitations

## Learning Curve

None of us were experienced with PHP.

## Time

Switching the project from Java to PHP

# Future Implementations



Chatbox feature



Adding in more  
Tags/Topics



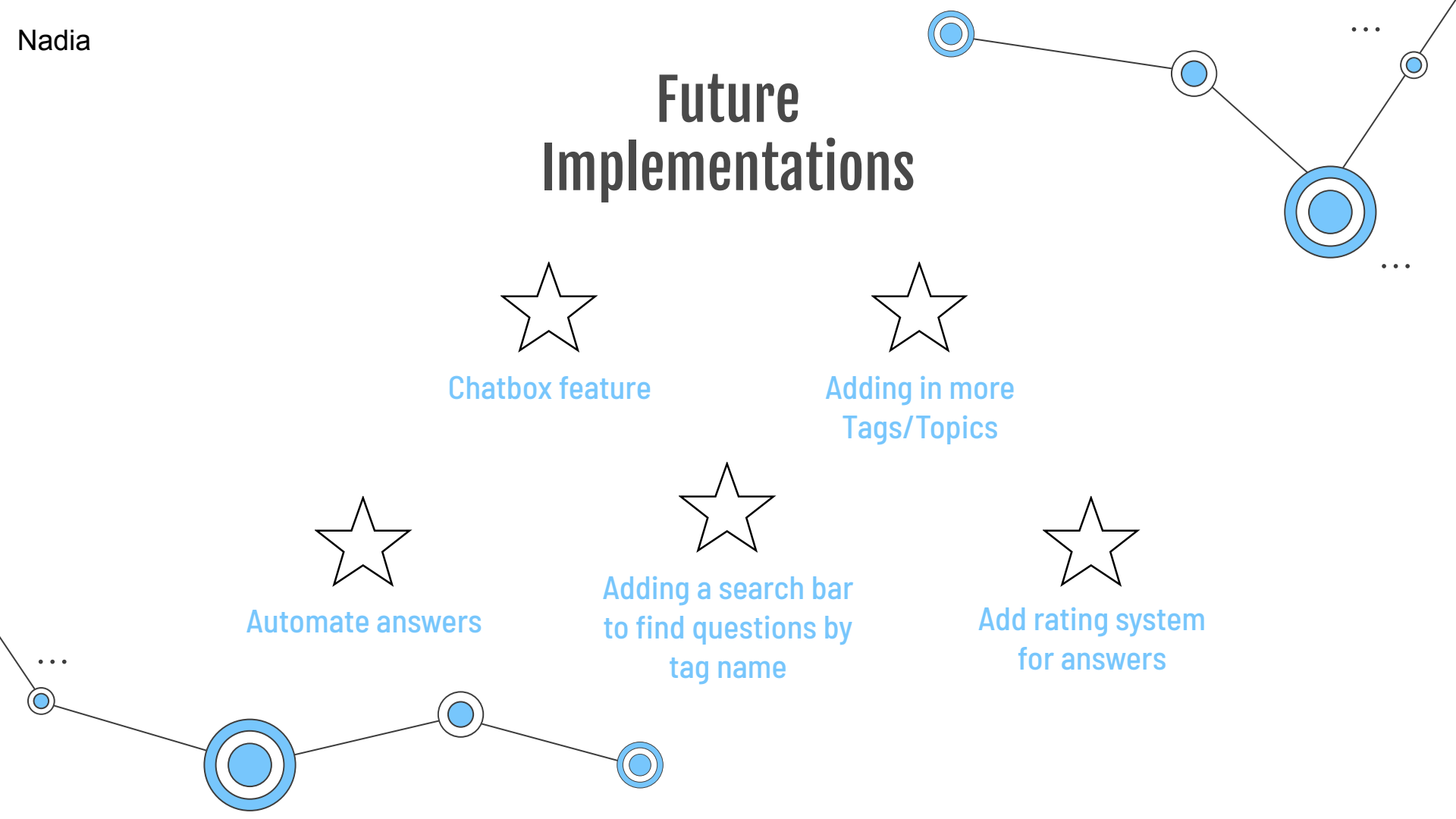
Adding a search bar  
to find questions by  
tag name



Automate answers



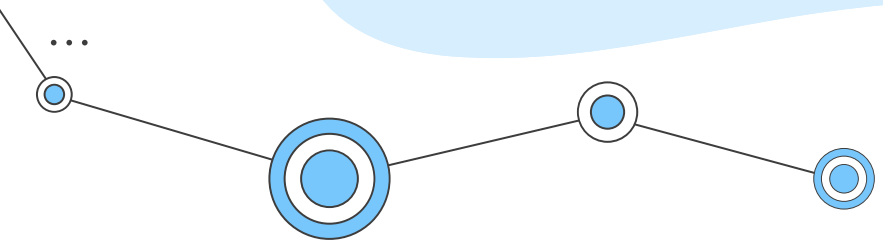
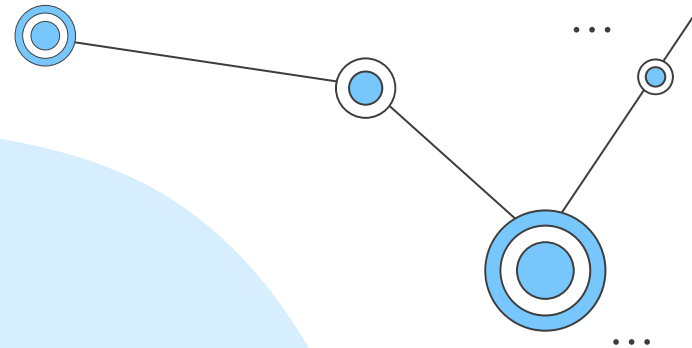
Add rating system  
for answers



loav



DEMO





**Thank You!**  
**Questions?**