Avanti Fellows

Quiz Engine, Glific Use-cases

7th July 2022 @ Tech4Dev Sprint, Garudmachi
suryateja@avantifellows.org

Hooray! Congrats on completing the quiz! 🎉

assessment staging version

1/10
Score

✅ **1** Correct

❌ **4** Wrong

⊖ **0** Skipped

Share

Go Back

Hooray! Congrats on completing the quiz! 🎉

assessment staging version

1/10
Score

✅ **1** Correct

❌ **4** Wrong

⊖ **0** Skipped

Share

See Answers

My only contribution in production so far :p

AF Mission

Help students lift themselves & their families out of poverty in a ***single generation*** by helping them qualify to ***quality professional undergraduate courses*** & develop the skills needed to build successful careers

Numbers…

~150 employees

~27k students offline

~2M online learners

~1.5k qualifying into top tier colleges each year

Programs
JNVs, ENABLE, NEEV, Girls Leadership Program (GLP)

JNVs

- Residential Schools
- In-person tutoring
- Smart top-tier students
- Class 11 & 12

ENABLE

- After-school hours
- Free online tutoring
- Testprep: Class 11 & 12

NEEV

- After-school hours
- Free online tutoring
- Foundation: Class 9 & 10

NEEV Program

Math+Science Remediation for Class 9 & 10

Experimentally, we found **three hours of weekly learning** to work well

Delivery: engaging live class by a master teacher (Google Meet)

~40 students per class

Problem?: **Cost! INR 6k/child/year**

Can't scale to state/national level

NEEV Program
Math+Science Remediation for Class 9 & 10
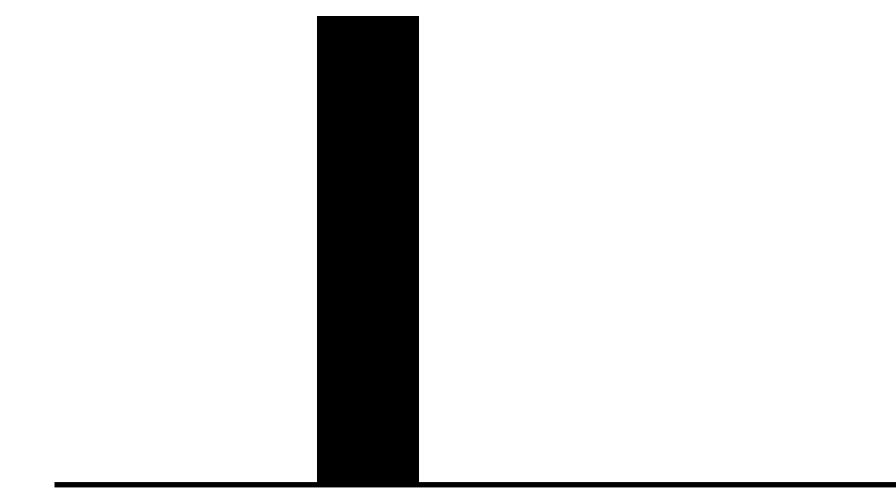
Solutions?
- Increase the no. of students per teacher?
=> "YouTube video hi dekh leta hu"
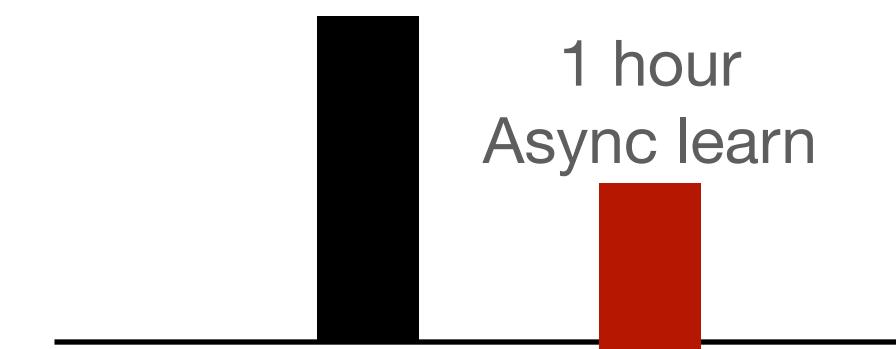
- Reduce live class time?

We bet on ***increasing async learning time***
- plios, revising recorded videos, homework,
quizzes, etc (nudge via WhatsApp glific)

3 hours
Live-class
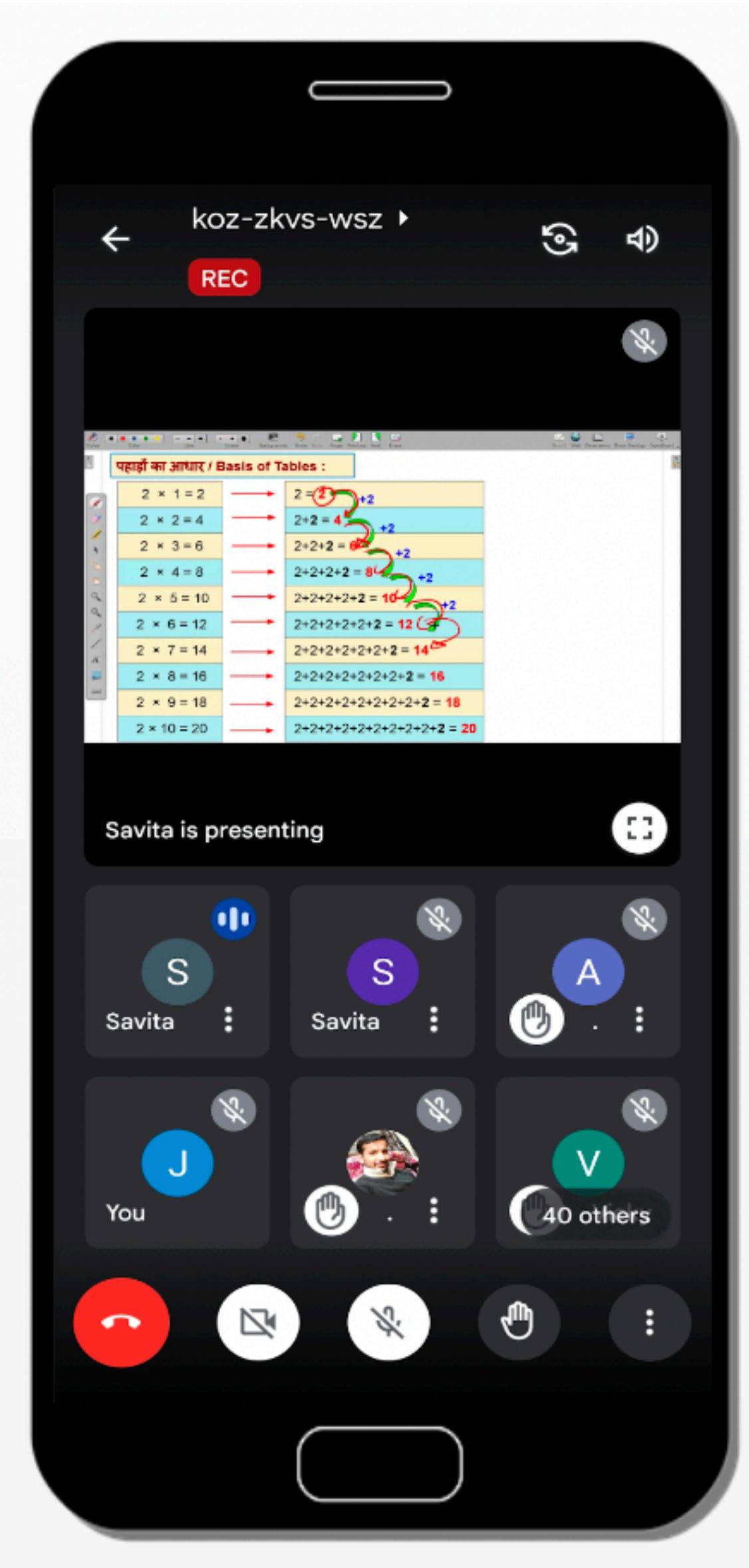
2.5 hours
Live-class

1 hour
Async learn
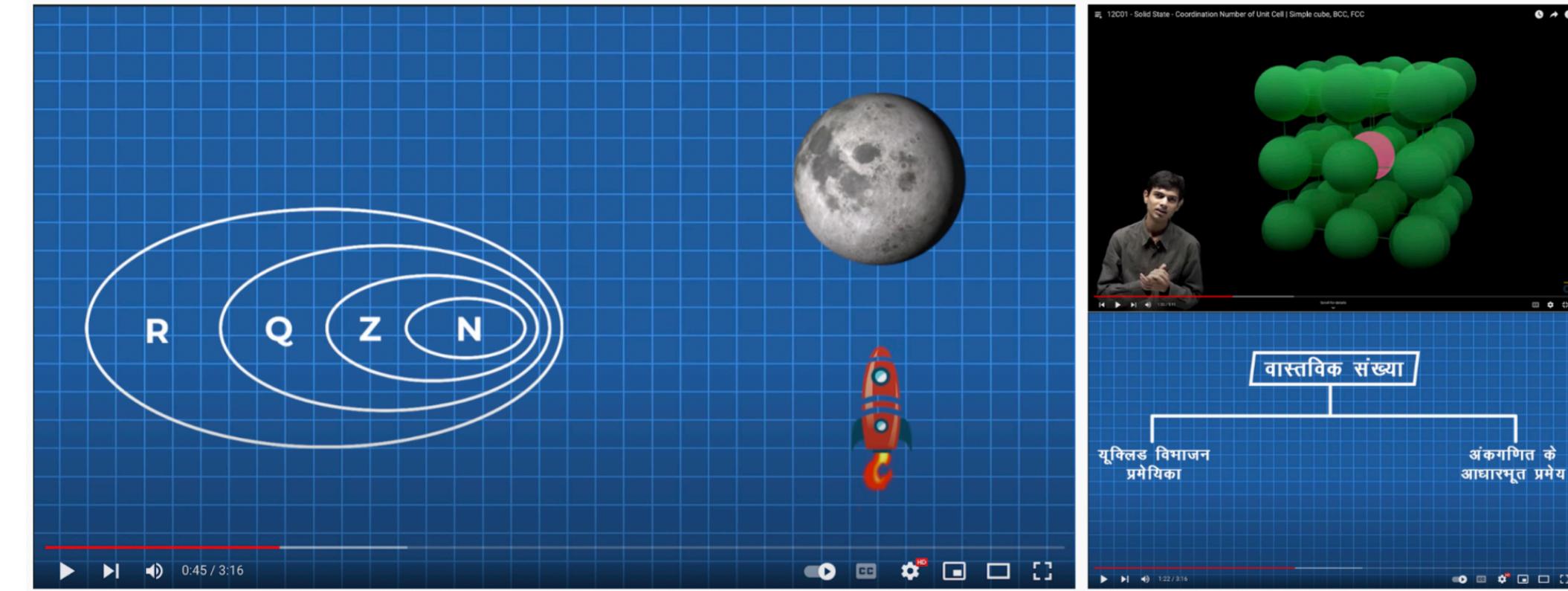
Product Walkthrough

Live classes
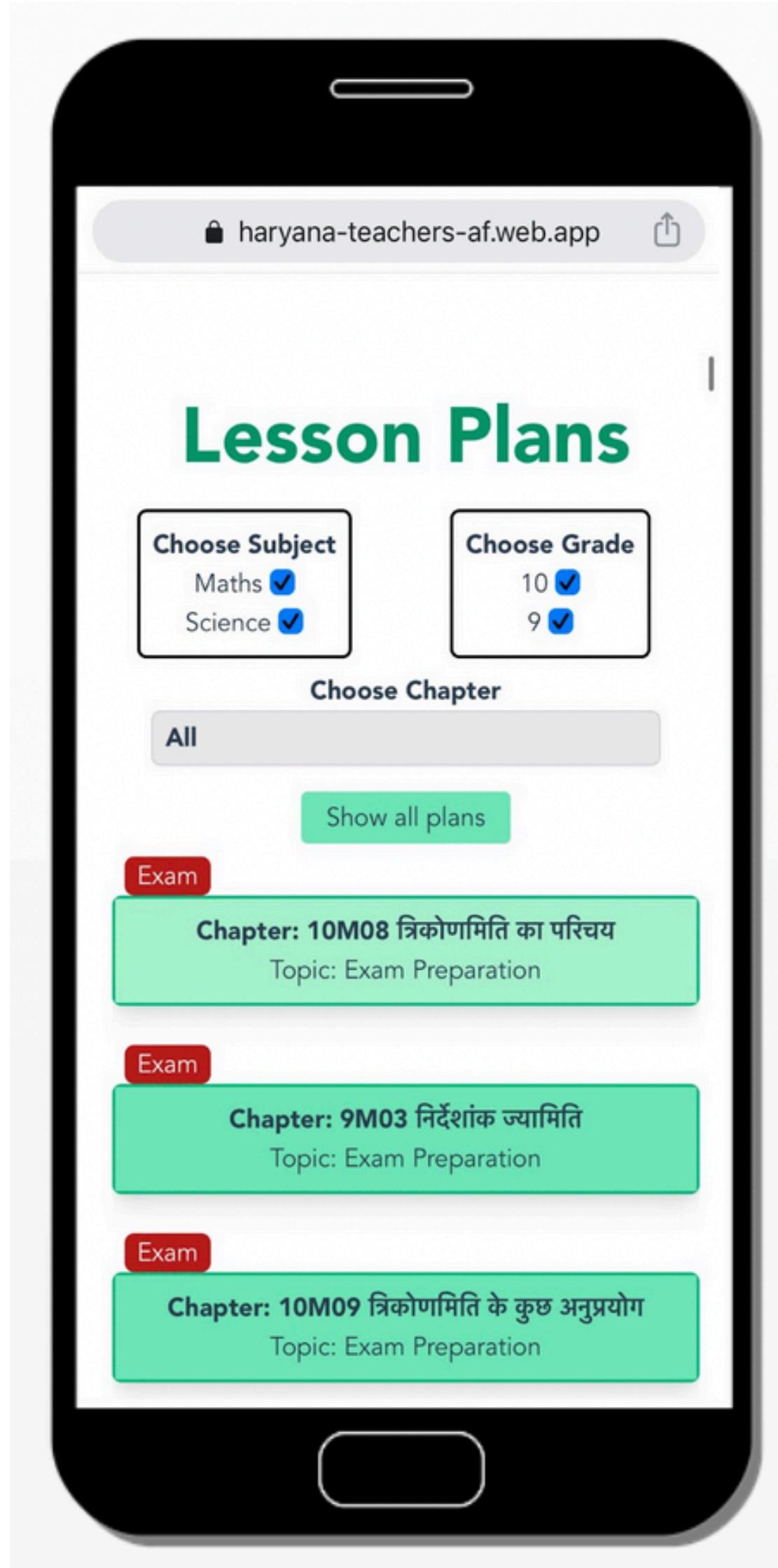
Recorded classes + additional content in English, Hindi
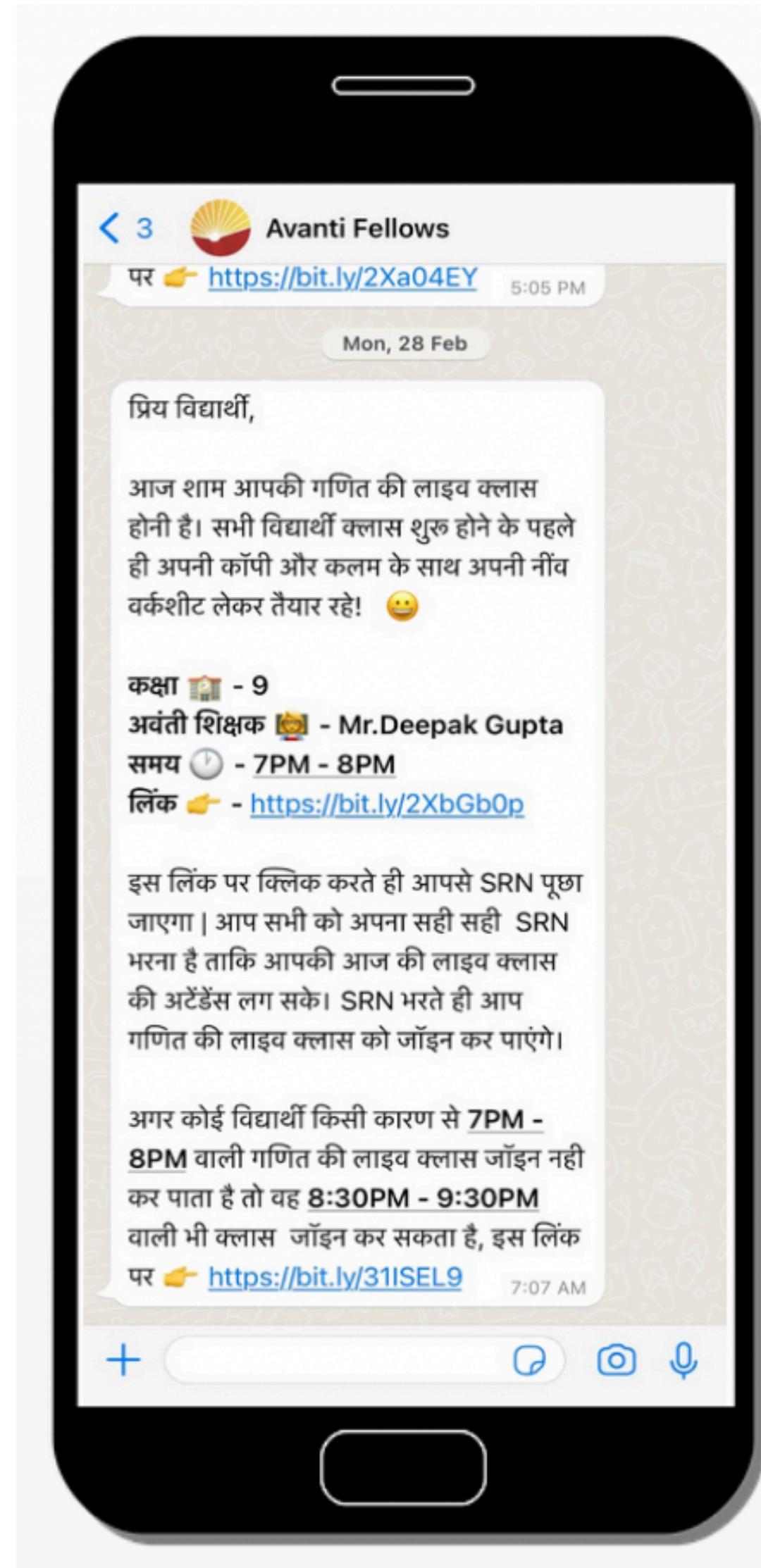
Question Bank (~1.5 lakh) —> Quizzes, worksheets
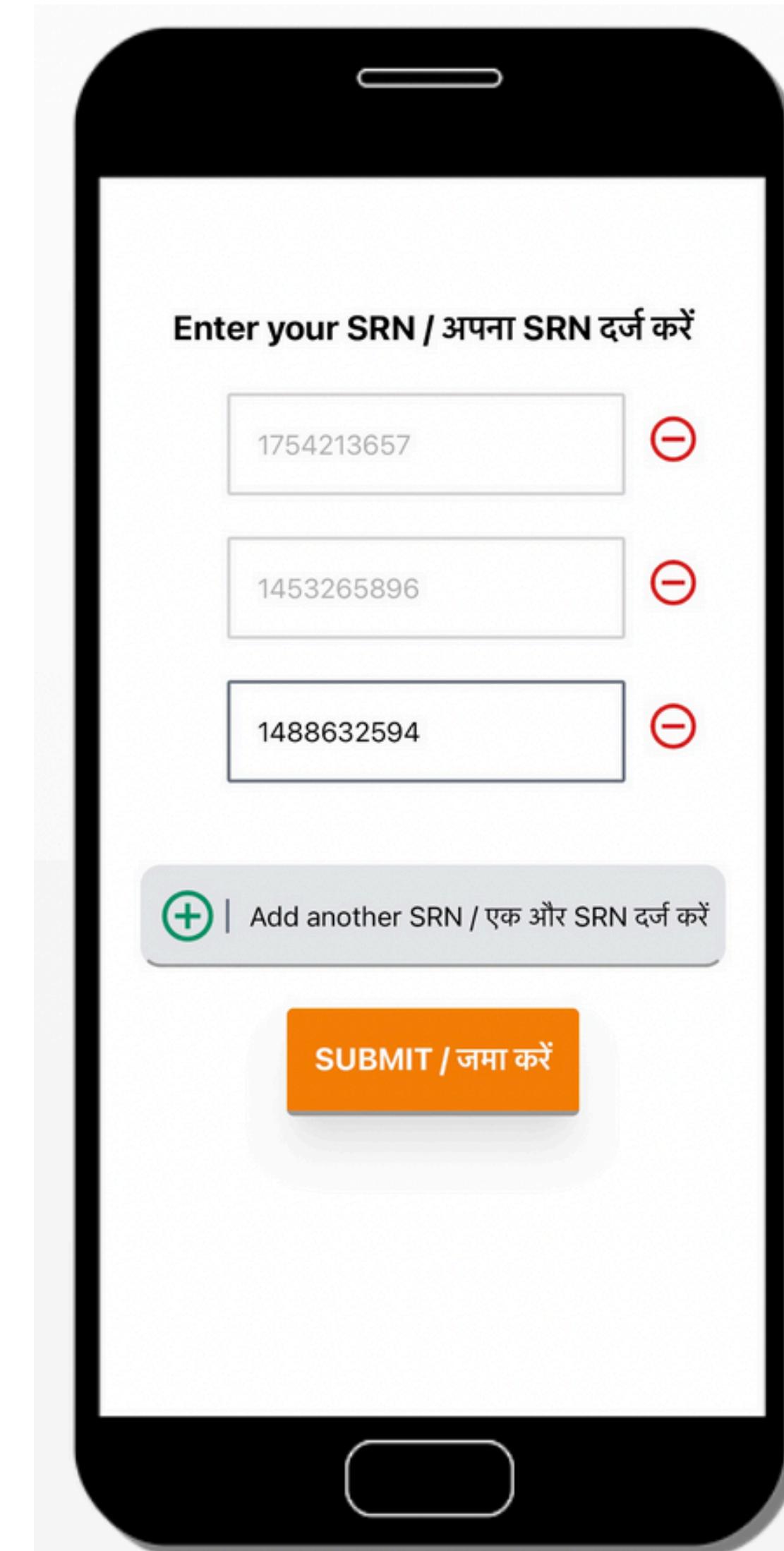
Lesson Plan Webapp
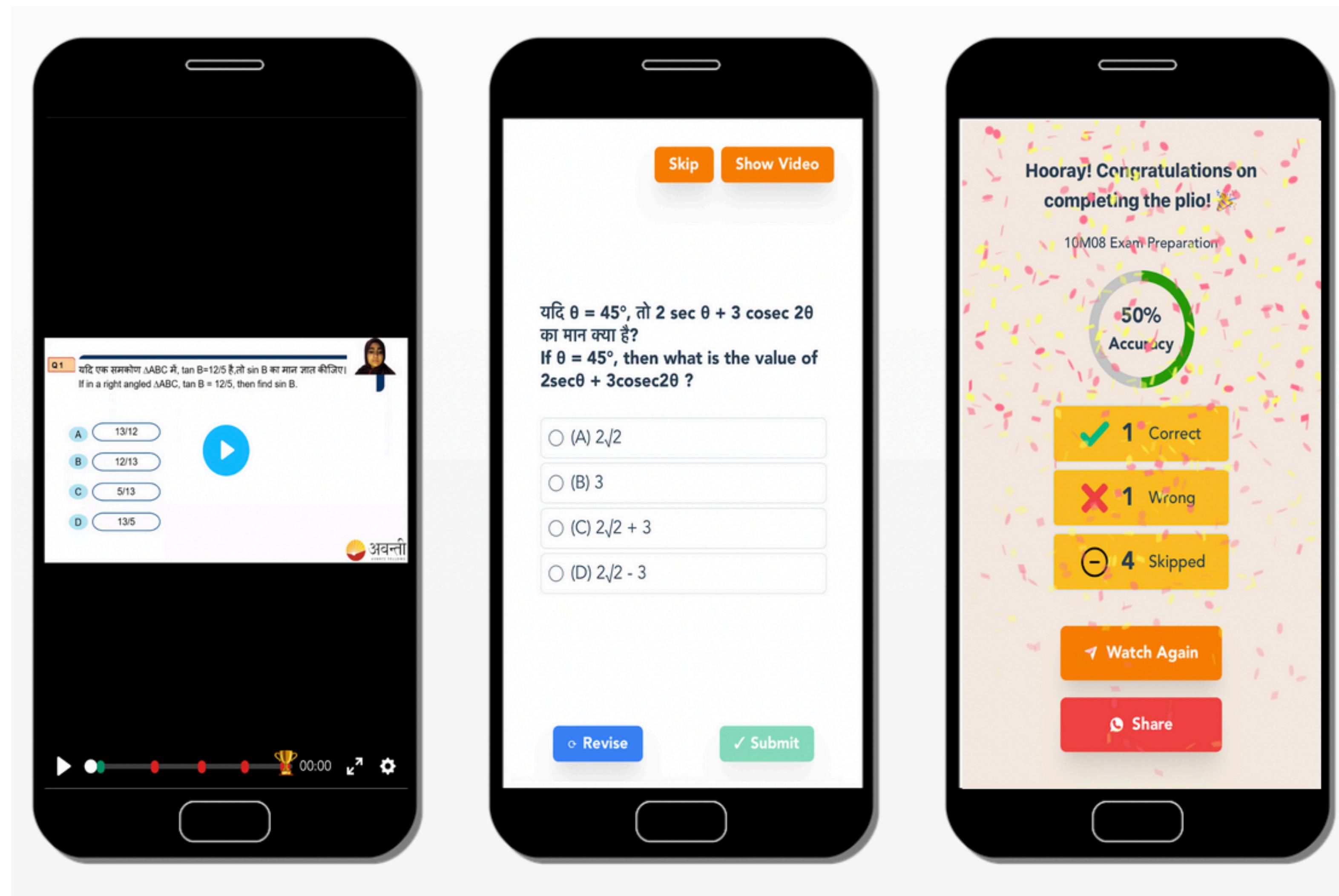
Whatsapp
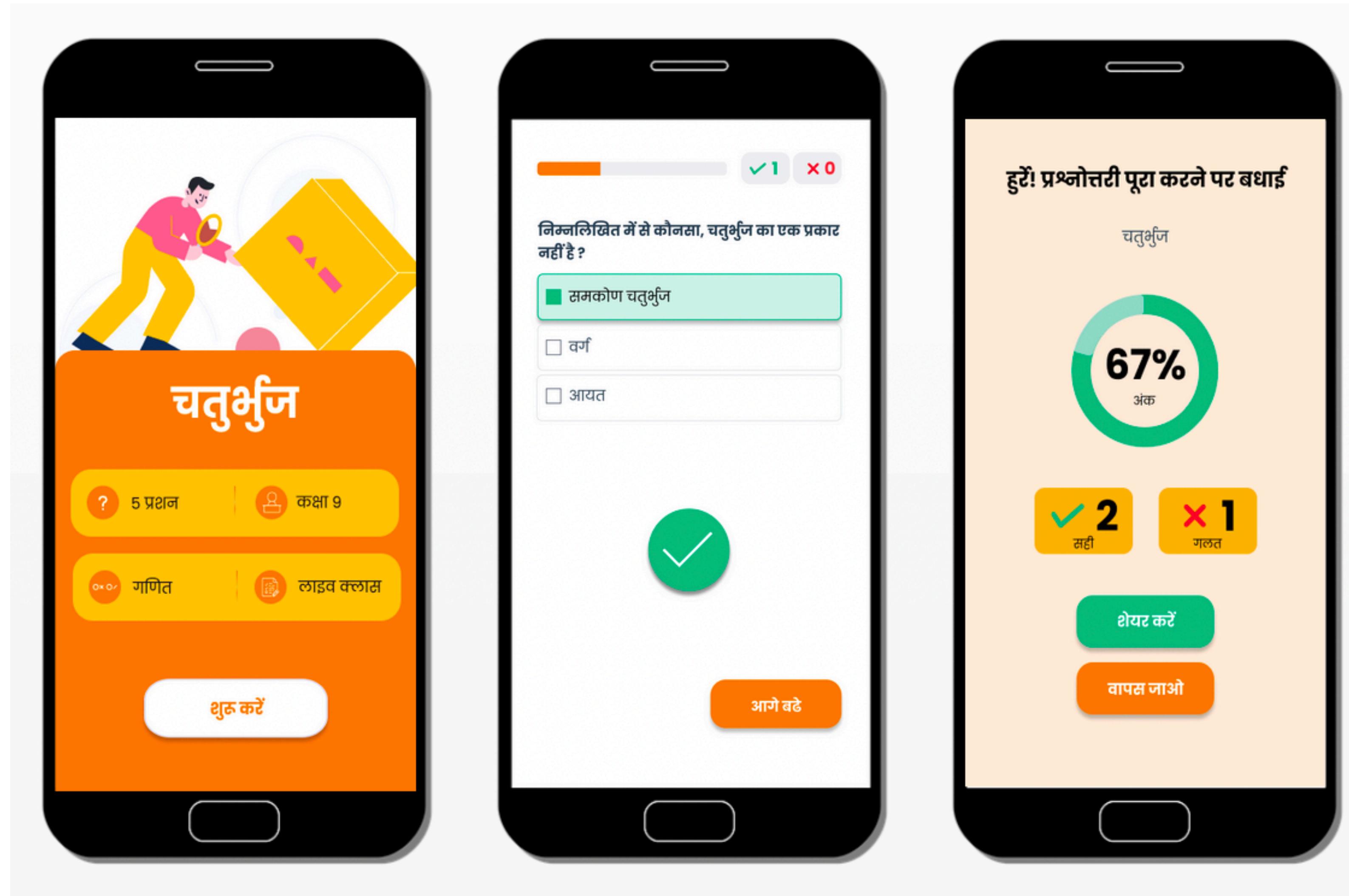
Authentication Layer

Interactive Video Lessons | Plio

Quiz Engine - homework, assessments

Quiz Engine

Motivation?

- Exam Plios, Homework Plios didn't seem to work that well —> "video nahi dekhna hai time bhot lagega"

- Assessments are a very important part of our intervention

- Good feedback to teachers, improve curriculum and teaching, etc.

Homework: https://staging-quiz.avantifellows.org/quiz/62c689333c3357c57b9a425e?
userId=abcd&apiKey=6qOO8UdF1EGxLgzwIbQN

Assessment: https://staging-quiz.avantifellows.org/quiz/62c689173c3357c57b9a4258?
userId=abcd&apiKey=6qOO8UdF1EGxLgzwIbQN

Quiz Engine
Alternatives?

Google Forms
- can't gamify
- no optional questions
- tough to clean/analyze data
- tough to connect with our question bank
- limit on number of rows
- doesn't look like NTA
- no optional questions
- tough to navigate across 180+ questions

NTA Web Application with ~20 sample papers

Quiz Engine

Open-source, most of the code is from Plio

Quiz Creator

- Can be a question bank, google sheet, UI
- Not yet ready

Quiz Engine

- On the browser
- Navigate through questions, answer, see result

Reporting

- Share results to students, teachers Analysis on topics, weak areas for each student
- **Glific!**
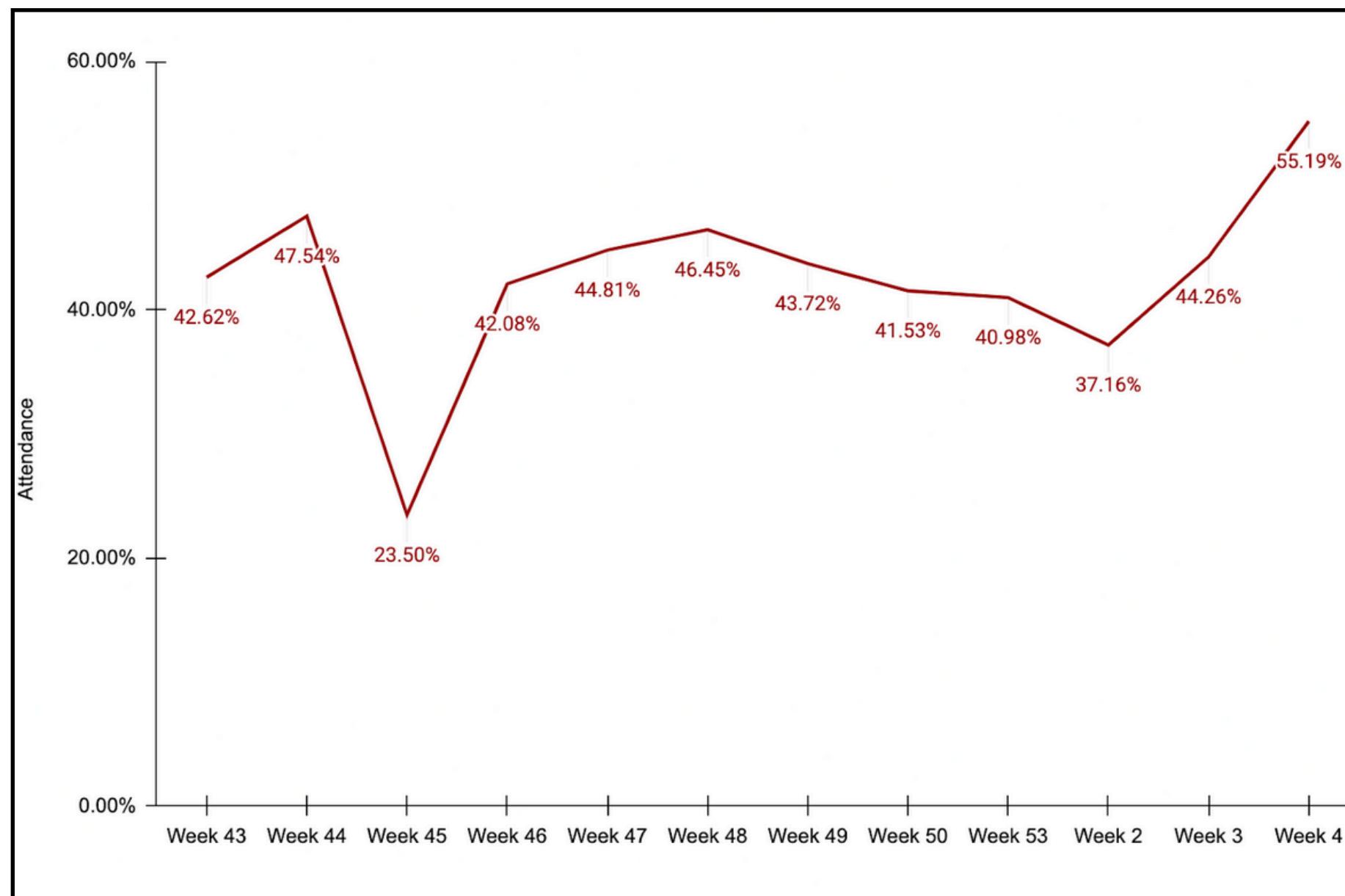
Glific Use-cases
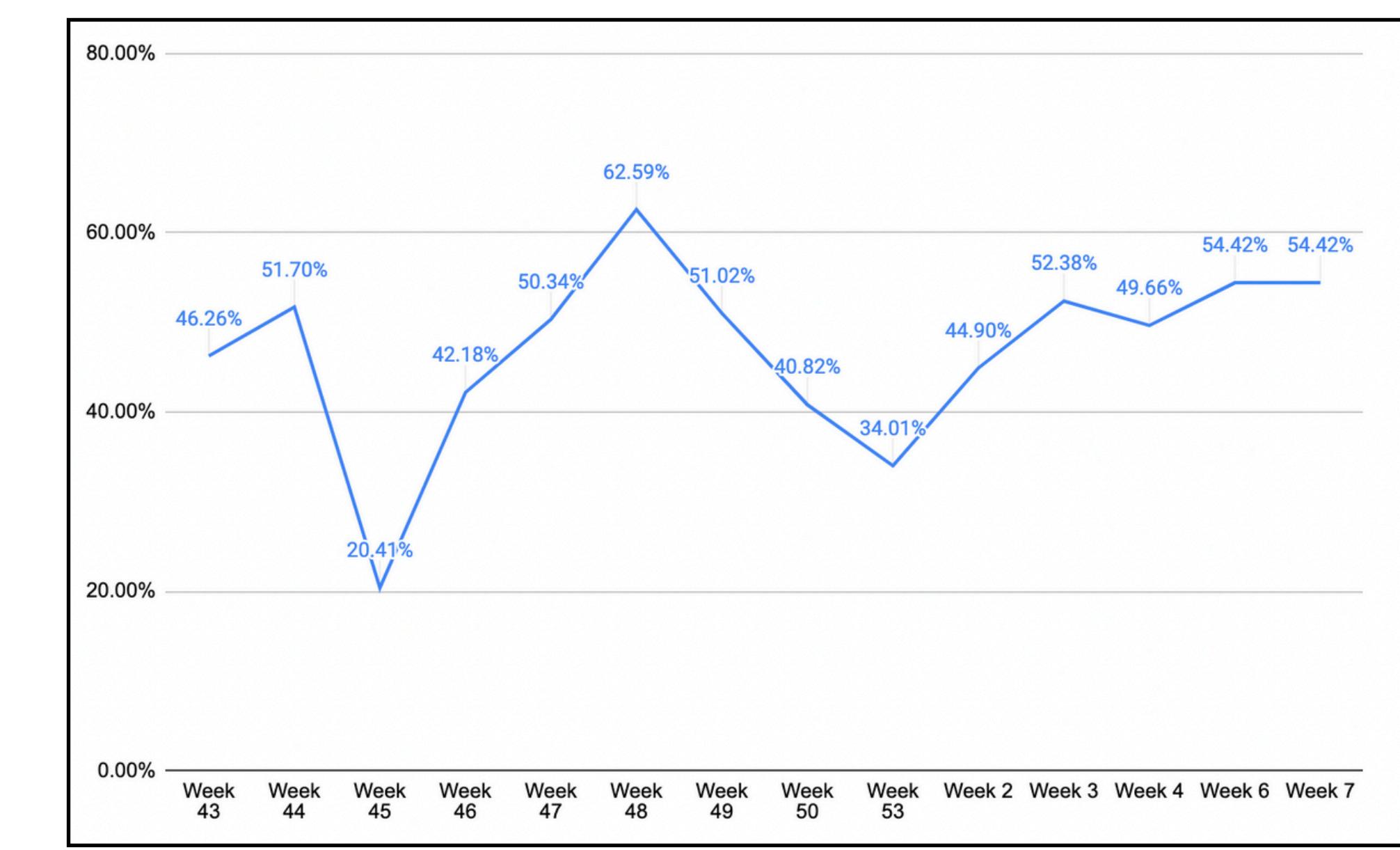
Glific Live-class experiments
Pilot Studies (Jan-Feb 2022)

Expt1: Test impact of nudges sent on WhatsApp on their live-class attendance (small sample)

Expt2: Test impact of nudges sent on WhatsApp on their live-class attendance (more schools)

Glific + AF

Ideas we plan to try out in near future

1) Send reports
- to teachers (how many students completed the quiz? Average time taken?)
- to students (which topics are you weak in?)
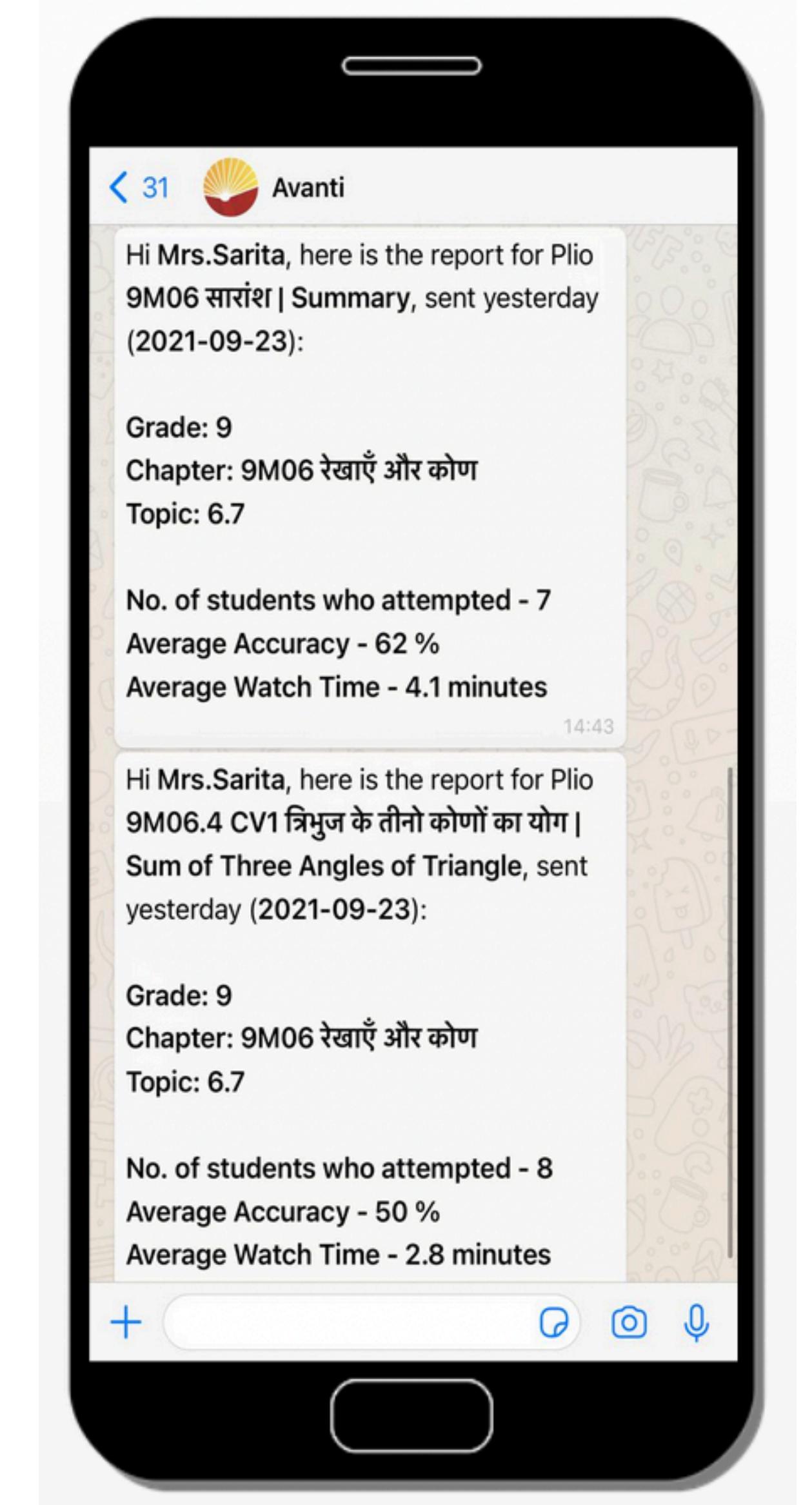
2) Send nudges
- please attend the class, here's the link

3) Send top-3 performers leaderboard *in a group chat*

4) Responding to queries ("circular motion ke questions chahiye"

Goal is to reduce stress on operations team, increase async learning

Thank You