DoubtMate

Solving your doubts like a buddy who always has the right answers!

Abstract

- DoubtMate is an online platform designed to help students
- Clear their doubts and share knowledge with peers and teachers.
- It fosters a collaborative learning environment where questions
- Can be posted and answered by anyone in the community.

Existing System

- Existing online platforms such as general-purpose forums or social media groups are not always academic-focused, and do not offer structured guidance from teachers, like Facebook Study Groups
- Existing platforms that focus on only specific features like question-answers or video lectures, and are often paid services , like DoubtNut and Vedantu

Technologies used

❑Frontend:
- HTML
- CSS
- JavaScript

❑Backend:
- Firebase
- Jitsi API
- Content Moderation API

❑Database:
- Firebase Firestore
- Firebase Strorage

Modules

❑ Student Module:

- Students can post questions, share notes, and join private study groups for collaboration.

- They can upvote or downvote questions and answers and participate in live video doubt-clearing sessions.

❑ Teacher Module:

- Teachers can respond to student questions, share academic resources, and create/moderate private study groups.

- They also host live video sessions for interactive teaching and resolving student doubts.
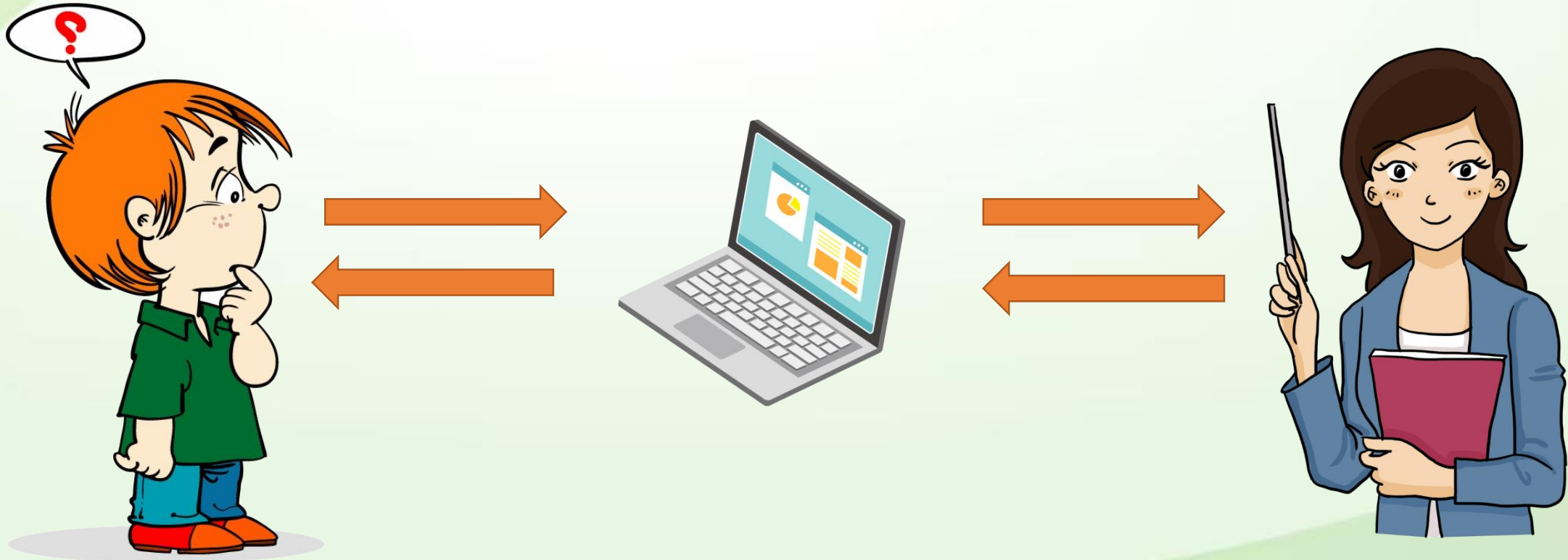
❑ Admin Module:

- Admins monitor the platform's content to ensure it follows academic standards, moderating or deleting inappropriate posts.

- They manage flagged content, user accounts, permissions, and ensure smooth platform functioning.

Key Features

- Q&A Platform for Students and Teachers
- Note Sharing Functionality
- Upvote/ Downvote System for Questions
- Private Study Groups for Collaboration with Live Video Lecture
- Admin Management and Moderation Tools
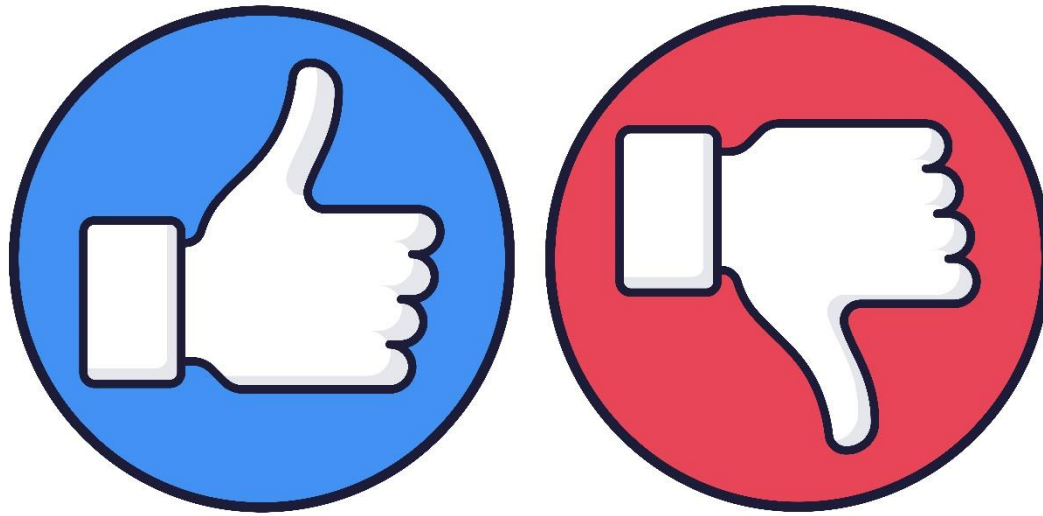
Peer and Teacher collaboration

Private Study Group

- Students can have a group discussion or study session without any physical boundaries
- Teacher can have a doubt session with the students
- Students can share their notes of study material within the study group
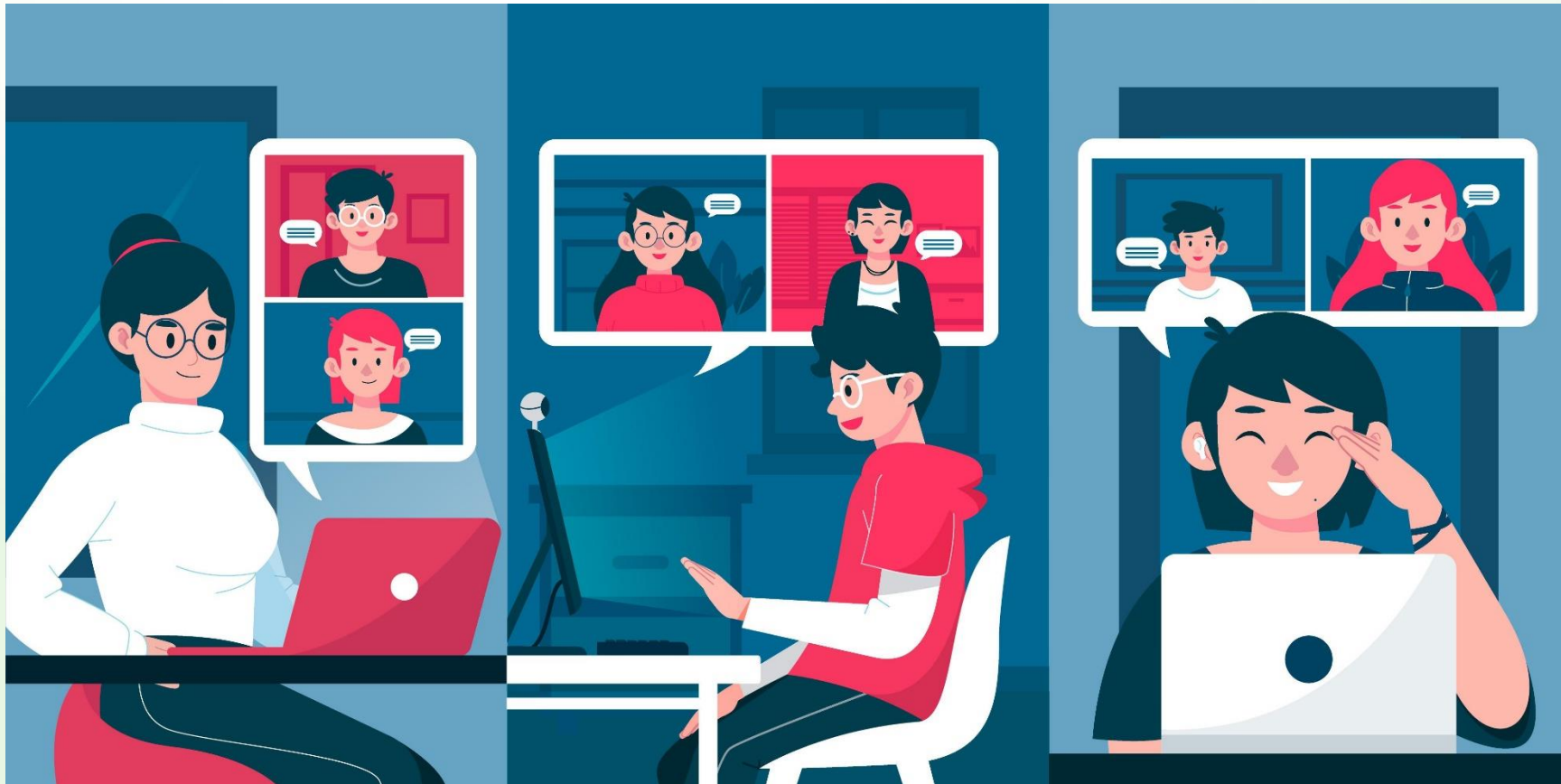
Upvote and Downvote

- Upvote and Downvote enables user to vote the content posted and it can reflect the authenticity of the content

Live Video Conference

- The Teachers can host a lecture or a doubt session for students

Conclusion

- DoubtMate is a free, collaborative platform designed to streamline student-teacher interactions through features like question-answering, video uploads, and note sharing.
- By integrating real-time updates, private study groups, and advanced moderation,
  it fosters a safe and engaging learning environment.
- Scalable to fit department or college needs,
  DoubtMate promotes open knowledge sharing,
  making education accessible and interactive for all users.