

HELLOWORLD



Teacher Dashboard — Backend Features Implemented



1. Class Management

What is done (Backend):

- Teachers can **create classes** and get a **unique class code**.
- Students can **join a class using the code**.
- Teachers can **view and delete their classes**.

APIs implemented:

- `POST /api/class/create`
 - `GET /api/class/teacher/:teacherId`
 - `POST /api/class/join`
 - `DELETE /api/class/:classId`
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2. Student Progress View

What is done (Backend):

- Teacher can see **student-wise progress for a class**.
- Includes:

- XP
- Levels
- Countries explored
- Badges
- Can be used to build **leaderboard view**.

API implemented:

- `GET /api/progress/class/:classId`
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3. Custom Quiz Builder

What is done (Backend):

- Teachers can **create custom quizzes** for a country.
- Quizzes support:
 - Multiple questions (MCQ)
 - Difficulty level
 - Correct answers
- Students can **view and attempt class quizzes**.
- Teachers can **manage (view/delete) quizzes**.

APIs implemented:

- `POST /api/tquiz`
- `GET /api/tquiz`

- `GET /api/tquiz/class/:classId`
 - `GET /api/tquiz/:quizId`
 - `DELETE /api/tquiz/:quizId`
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4. Content Upload

What is done (Backend):

- Teachers can upload **facts, challenges, or resources**.
- Content appears on student dashboard as **“Teacher’s Note of the Week”**.
- Teachers can manage their own uploaded content.

APIs implemented:

- `POST /api/tcontent`
 - `GET /api/tcontent`
 - `GET /api/tcontent/teacher`
 - `DELETE /api/tcontent/:id`
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5. Analytics Dashboard

What is done (Backend):

- Teacher-level analytics to understand class engagement.
- Provides data for charts like:

- Average XP per student
- Most explored countries
- Quiz completion statistics

APIs implemented:

- `GET /api/analytics/avg-xp`
 - `GET /api/analytics/countries`
 - `GET /api/analytics/quiz-stats`
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6. Teacher–Student Chat / Feedback

What is done (Backend):

- One-to-one chat between teacher and student.
- Teachers can give **feedback**.
- Students can ask **clarification questions**.
- Messages support **read status**.

APIs implemented:

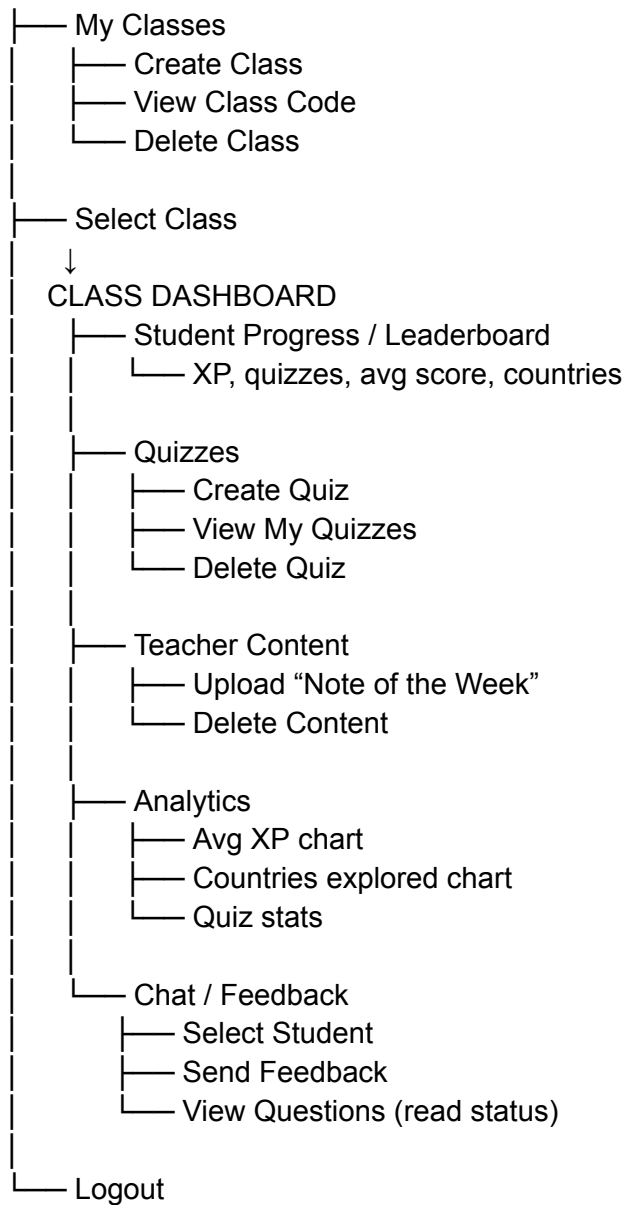
- `POST /api/chat`
- `GET /api/chat/:teacherId/:studentId`
- `PUT /api/chat/read`
- `DELETE /api/chat/:messageId`

Teacher Dashboard – Screen Flow (Simple & Clear)

LOGIN/SIGNIN



TEACHER DASHBOARD HOME





Student Dashboard — Backend Features Implemented

✓ 1. Learning Progress Tracker

What is done (Backend):

- Student progress is stored and managed in backend.
- Tracks:
 - XP points
 - Level
 - Badges earned
 - Countries explored
- Progress can be fetched and updated securely using JWT.

APIs implemented:

- GET `/api/student/progress`
- PUT `/api/student/progress`

👉 Used to build XP bar, level indicator, % progress on dashboard.

✓ 2. Personalized Map Journey

What is done (Backend):

- Backend stores list of countries visited by each student.
- Updates visited countries when student explores a new country.
- Supports unlocking countries based on progress.

APIs implemented:

- PUT `/api/student/progress`
(includes `countriesVisited` update)
- GET `/api/student/progress`

👉 Frontend can highlight visited/unlocked countries on the map.

✅ 3. Streaks & Badges

What is done (Backend):

- Daily login streak logic implemented.
- Backend tracks:
 - Current streak
 - Last login date
- Badge system implemented:
 - Badge model

- **Badge assignment logic**
- **Supports gamification like achievements.**

👉 **Frontend displays 🔥 streak counter & earned badges.**

Badge APIs (Quick List)

- **GET /api/badges**
👉 Get all badges
 - **GET /api/badges/:id**
👉 Get single badge details
 - **POST /api/badges**
👉 Create a new badge (admin/teacher)
 - **PUT /api/badges/:id**
👉 Update badge details
 - **DELETE /api/badges/:id**
👉 Delete a badge
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4. Student Notebook (Saved Notes)

What is done (Backend):

- Students can save useful phrases from AI chats.
- Notes are stored per student.
- Supports fetching and deleting notes.

APIs implemented:

- **POST /api/notebook**

- **GET** `/api/notebook`
- **DELETE** `/api/notebook/:id`

👉 Acts like a **personal phrasebook** for students.

✓ 5. Quiz & Game Zone

What is done (Backend):

- Quiz attempt history stored per student.
- Stores:
 - Quiz scores
 - Attempts
 - Best scores
- Supports leaderboard-style data.

APIs implemented:

1.Submit Quiz

- **POST** `/api/quiz/submit`
- Student submits quiz score
- Backend saves attempt & updates XP

2.Quiz History

- **GET** `/api/quiz/history`

- Student gets all past quiz attempts
- Used for “My Quiz History”

3.Leaderboard

- GET `/api/quiz/leaderboard`
- Shows top students
- Accessible to students & teachers

Backend API Checklist Teacher Dashboard

Feature 1: Class Management

- POST /api/class/create – Create class
- GET /api/class/teacher/:teacherId – Get teacher classes
- DELETE /api/class/:classId – Delete class
- POST /api/class/join – Student joins class

Feature 2: Student Progress View

- GET /api/progress/class/:classId – Leaderboard & student stats

Feature 3: Custom Quiz Builder

- POST /api/tquiz – Create quiz
- GET /api/tquiz – Teacher quizzes
- GET /api/tquiz/class/:classId – Class quizzes
- GET /api/tquiz/:quizId – Single quiz details
- DELETE /api/tquiz/:quizId – Delete quiz

Feature 4: Teacher Content Upload

- POST /api/tcontent – Create content (teacher)
- GET /api/tcontent – Student dashboard content
- GET /api/tcontent/teacher – Teacher's own content
- DELETE /api/tcontent/:id – Delete content (teacher)

Feature 5: Analytics Dashboard

- GET /api/analytics/avg-xp – Average XP
- GET /api/analytics/countries – Most explored countries
- GET /api/analytics/quiz-stats – Quiz stats

Feature 6: Teacher–Student Chat

- POST /api/chat – Send message
- GET /api/chat/:teacherId/:studentId – Chat history
- PUT /api/chat/read – Mark messages read
- DELETE /api/chat/:messageId – Delete message

Backend API Checklist for Student Dashboard

1 Learning Progress Tracker

- GET /api/student/progress → Fetch student XP, levels, badges, % countries explored
- PUT /api/student/progress → Update progress after completing quizzes, games, or AI chats

2 Personalized Map Journey

- **GET /api/student/progress** → Get list of visited/unlocked countries
 - **PUT /api/student/progress** → Mark a country as visited
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3 Streaks & Badges

- **GET /api/badges/** → List all badges
 - **GET /api/badges/:id** → Get single badge info
 - **POST /api/badges/** → Award new badge (if applicable)
 - **PUT /api/badges/:id** → Update badge details
 - **DELETE /api/badges/:id** → Delete a badge
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4 Student Notebook (Saved Notes)

- **POST /api/notebook/** → Save a phrase or note from AI chat
 - **GET /api/notebook/** → Fetch all saved notes
 - **DELETE /api/notebook/:id** → Delete a note
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5 Quiz & Game Zone

- **POST /api/quiz/submit** → Submit quiz results
- **GET /api/quiz/history** → Fetch student quiz history
- **GET /api/quiz/leaderboard** → View top students for leaderboard