### **1. Dashboard**

The Dashboard is the main interface that provides teachers with an overview of their courses, announcements, important statistics, and detailed student analysis.

#### **Features:**

* **Student Analysis (Based on Grade Filter):**
  + **Course Progress Average:** Shows the overall progress of students in a selected course.
  + **Weekly Engagement Average:** Displays the average student engagement for each week.
  + **Pre vs. Post Test Average:** Compares students' performance before and after completing a course or module.
  + **Top Modules:** Highlights the most engaging or highest-scoring modules for students.
  + **Live Class Attendance:** Provides statistics on student attendance for live classes.
  + **Percentage of Time Spent by Students:** Visual representation of time spent by students on various modules.
  + **Heat Map:** Displays individual student performance and percentage completion chapter-wise, allowing teachers to pinpoint areas of strength and weakness.

#### **Usage:**

Teachers can navigate to their courses, check notifications, analyze student performance using various metrics, and access tools quickly from the dashboard. The grade filter allows targeted analysis of student groups, providing deeper insights into learning outcomes and engagement.

## **2. My Courses**

### **Overview**

The **My Courses** module allows teachers to view, manage, and edit all their courses. It provides functionality for organizing content by **Grades**, **Subjects**, **Chapters**, and **Topics**. Teachers can add files, descriptions, and index numbers to maintain the correct order of topics and chapters.

### **User Roles**

* **Teacher:** Can add, edit, delete, and view chapters and topics within courses.
* **Student:** Can view the available content and access activities (tests, video lectures).

### **Features**

1. **Grades**
   * Teachers can select a grade to view all subjects associated with that grade.
2. **Subjects**
   * Teachers can select a subject to view all modules/chapters related to that subject.
3. **Modules/Chapters**
   * Teachers can:
     + Add new chapters by specifying:
       - Chapter Name
       - Index (to define order)
       - File Upload (image file)
     + View all existing chapters.
4. **Topics**
   * Teachers can:
     + Add new topics under a chapter by specifying:
       - Topic Name
       - Topic Code
       - Description
       - Index (to define order)
       - File Upload (image file).
5. **Activities** (Under Topics)
   * Teachers can add or manage:
     + **Tests**
     + **Video Lectures**
     + **Pdf Lectures**
   * Students can view and interact with these activities.

### **Navigation Flow**

1. **Grade Page** (List of all Grades) ➔ Click on a Grade ➔ **Subjects Page** (List of Subjects for the selected Grade)
2. **Subjects Page** ➔ Click on a Subject ➔ **Modules/Chapters Page** (List of Chapters for the selected Subject)
3. **Modules/Chapters Page** ➔ Click on a Chapter ➔ **Topics Page** (List of Topics under the selected Chapter)
4. **Topics Page** ➔ Click on a Topic ➔ **Activities Page** (List of Tests, Video Lectures, Youtube Lectures, eBooks, Topic test, word pop games etc.)

## **3. Heat Map**

The Heat Map feature provides a visual representation of student engagement and activity within courses.

### **Features:**

* **Visual Representation:** Heat maps display high- and low-activity periods.
* **Customization:** Teachers can adjust the heat map to show specific date ranges or course modules.
* **Downloadable Reports:** Export heat map data for analysis.

### **Usage:**

Teachers can utilize heat maps to identify areas where students are most active or where engagement is lacking.

## **4. Analytics**

### **Overview**

The **Analytics** module provides comprehensive insights into student performance, course progress, and assessment outcomes. Teachers can filter analytics data by **Grade** and **Course** to get precise insights into student learning and engagement.

### **User Roles**

* **Teacher:** Can view and filter based on **Grade** and **Course**.

### **Features**

#### **Performance Reports**

* View individual or group performance metrics for specific grades and courses.
* Compare **Pre-Test vs. Post-Test** performance to assess knowledge improvement over time.
* Track progress across different assessment types, including quizzes, assignments, and tests.

#### **Completion Rates**

* Monitor how many students have completed specific assignments, topics, or entire courses.
* Filter data by **Grade** and **Course** to get targeted completion statistics.

#### **Grade Analysis**

* Breakdown of average grades for specific grades and courses.
* Identify improvement trends across **Pre-Test and Post-Test** comparisons.

#### **Bloom’s Taxonomy Analysis**

* Analyze student performance based on **Bloom’s Taxonomy** levels such as **Knowledge, Comprehension, Application, Analysis, Synthesis, and Evaluation**.
* Understand how well students are mastering lower-order vs. higher-order thinking skills.

### **Usage**

Teachers can utilize the **Analytics** module to:

* Monitor overall course progress and identify struggling students.
* Compare **Pre-Test vs. Post-Test** results to gauge learning effectiveness.
* Analyze performance according to **Bloom’s Taxonomy** to improve teaching methods.
* Make data-driven decisions to enhance course content and assessments.

### **Navigation Flow**

1. **Analytics Dashboard** ➔ Select **Grade** and **Course** ➔ View detailed performance metrics.  
   **Completion Rates Page** ➔ Filter by **Grade and Course** ➔ View statistics for assignments and course completion.
2. **Pre-Test vs. Post-Test Analysis Page** ➔ Compare results for a specific **Grade and Course**.  
   **Bloom’s Taxonomy Analysis Page** ➔ View detailed performance breakdown based on taxonomy levels.

## **5. Announcements**

The Announcements feature allows teachers to broadcast important messages to students.

### **User Roles**

* Teacher: Can create, edit, delete, and view announcements for specific grades and sections.
* Student: Can view announcements and receive notifications for newly created announcements.

### **Features:**

1. **Create Announcement**

* Teachers can:
  + Add new Announcement:
    - Title
    - Description
    - Select Grade and Section
    - From Date
    - To Date
  + View all existing Announcements.
  + Edit or delete Announcement.

### **Usage:**

Teachers can use announcements to provide updates, share resources, or notify students about upcoming assignments.