**Tracking Learner Progress (Instructor & Student Dashboards)**

1. **Google Classroom APIs** for tracking learner activities:
* **courses.courseWork.list**: Retrieves the coursework (assignments) for a specific course.
* **courses.courseWork.studentSubmissions.list**: Retrieves student submissions for a specific coursework, including the submission status and grades.
* **courses.students.list**: Lists all students enrolled in a course.
* **courses.teachers.list**: Lists all teachers in a course.
1. **Fetching Learner Data**
* The courses.list: gets all courses created by the instructor.
* courses.students.list: retrieves the list of students in each course.
* courses.courseWork.list: to get the coursework for a course.
* courses.courseWork.studentSubmissions.list: to track progress on each coursework for every student.

**courses.list** provides the below course states:

* ACTIVE: The user is actively enrolled in the course.
* ARCHIVED: The course is archived and no longer active.
* PROVISIONED: The course is provisioned but not yet active.
* DECLINED: The invitation to join the course was declined.
* SUSPENDED: The user's enrollment in the course is temporarily suspended.

**Table Relationships**

* **Instructor**:
	+ Owns multiple **Courses**.
* **Course**:
	+ Contains multiple **Students** and multiple **Coursework** items.
* **Student**:
	+ Enrolled in a **Course** and can have multiple **StudentSubmission** entries.
* **Coursework**:
	+ Part of a **Course** and can have multiple **StudentSubmissions**.
* **StudentSubmission**:
	+ Tracks the progress of a **Student** for a specific **Coursework**.

**DATABASE TABLES:**

**Course Table**

 id

 title

 description

 price

 googleclassownerid

 googleclassroomid

 datecreated

**Instructor Table**

 id

 googleinstructorid

 firstname

 lastname

 datecreated

**Student Table**

 googlestudentid

 course

 firstname

 lastname

 email

 password

 datecreated

**CourseWork Table**

 googlecourseworkid

 course

 title

 description

 duedate

 creationdate

**StudentSubmission Table**

 googlesubmissionid

 coursework

 student

 state (NEW, CREATED, TURNED\_IN, RETURNED)

 grade #from instructor

 submissiondate

**Enrolment Table**

 id

 courseid

 studentid

 paymentid

 enrolledate

**Payment Table**

 id

 studentid

 course

 amount

 paymentstatus

 datecreated