API: Add the ability to have Recurring training batches per course [8]

Budget: 8 hours

While creating/updating a new course, it should now be possible to define a schedule for the course.

API changes

Changes are in the POST/PUT `/Organisations/{orgId}/Courses/{courseId}`. The API request payload will have a new property called `CourseScheudle`

```
{
  "CourseName": "Flutter",
  "Description": "Flutter course for this quarter",
  "CourseCertification": "",
  "CoursePrerequisites": "DART programming",
  "CourseWeeks": 2,
  "CourseDays": 2,
  "CourseHrs": 2,
  "DeletedCourseContentIds": [],
  "CourseContents": [],
  // -------- NEW CONTENT HERE ---------
  "CourseSchedule": [{
      "Sites": [1, 2, 3],
      "StartDate": '2024-11-13T00:00:00Z',
      "Frequency": "monthly",
      "NumberOfSessions": 1,
      "FacultyUsers": [1, 2, 3]
```

```
    }]
  }
```

Inputs

1. `Sites` (Multiselect dropdown) — An array of Site Ids

2. `StartDate` — Start date in UTC time

3. `Frequency` (Single select dropdown) — Either of the following option will be supplied

   a. Daily

   b. Weekly

   c. Fortnight

   d. Month

   e. Quarterly

   f. Half yearly

   g. Yearly

4. `NumberOfSessions` — Number of sessions to be taken per occurrence. This value should be in between 1 to 10.

5. `FacultyUsers` (Multiselect) — The users that would be taking the sessions.

Logic

Cases

Case #1

Given the following input

SiteId	StartDate	Frequency	NumberOfSessions	FacultyUsers
1	2024-11-13 00:00:00	daily	1	2

This input means

1. ***One recurring training batch*** should be setup that should be conducted ***daily*** starting from ***2024-11-13*** at Site with ***Site Id 1*** that will be conducted by ***Faculty user with Id 2***

Case #2

Given the following input

SiteId	StartDate	Frequency	NumberOfSessions	FacultyUsers
1, 2	2024-11-13 00:00:00	daily	2	2, 3, 4

Assume that ***Faculty Users 2 and 3 are from Site 1*** and ***User 4 is from Site 2***

This input means

1. For ***Faculty User 2*** at ***Site 1***

   a. ***Two training sessions*** should be setup that are conducted daily starting from ***2024-11-13***

2. For ***Faculty User 3*** at ***Site 1***

   a. ***Two training sessions*** should be setup that are conducted daily starting from ***2024-11-13***

3. For ***Faculty User 4*** at ***Site 2***

   a. ***Two training sessions*** should be setup that are conducted daily starting from ***2024-11-13.***

Create Course

1. On course creation with a schedule, insert a record in the course_schedules table for every combination of Site and Faculty.

2. For every record in the `course_schedules` table, create a batch in the `course_batches` table for the start date specified in the course schedule. The batch name should be `<CourseShortCode>_<SiteName>_<FacultyName>_<DateOfBatch(DD-MM-YYYY)>`

Update Course

1. On updating a course with a schedule, modify the existing records in the `course_schedules` table by either deactivating existing schedules and creating the new ones.

2. For every schedule deactivated

    a. Deactivate the next batch occurrence for that course schedule.

3. For every new schedule added

    a. Create a new batch for that course schedule and set it active.

    b. The batch name should be
        `<CourseShortCode>_<SiteName>_<FacultyName>_<DateOfBatch(DD-MM-YYYY)>`

CRON

1. A CRON job should run daily midnight.

2. This CRON pulls the courses schedules and create the batches that are supposed to be conducted on the current day.

3. The batch name should be
    `<CourseShortCode>_<SiteName>_<FacultyName>_<DateOfBatch(DD-MM-YYYY)>`