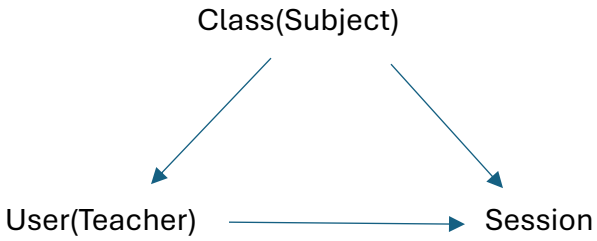
Proposed Connection



Problems Statement :

1. Currently a session is generated randomly without any connection to the subject/class

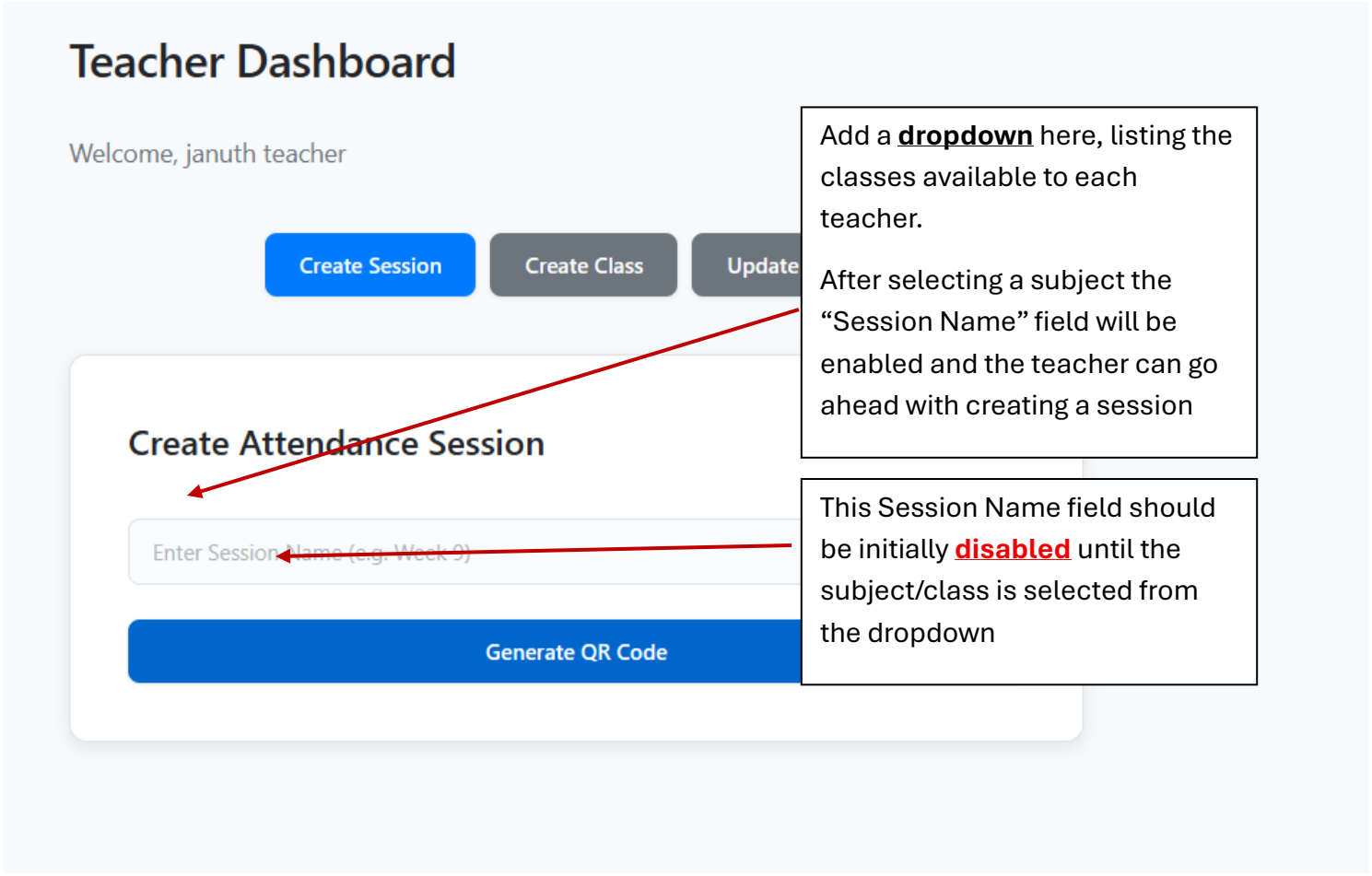
2. Classes(subjects) are assigned to teachers, when in reality teachers should be assigned to each class/subject.(As a single subject can have multiple teachers)

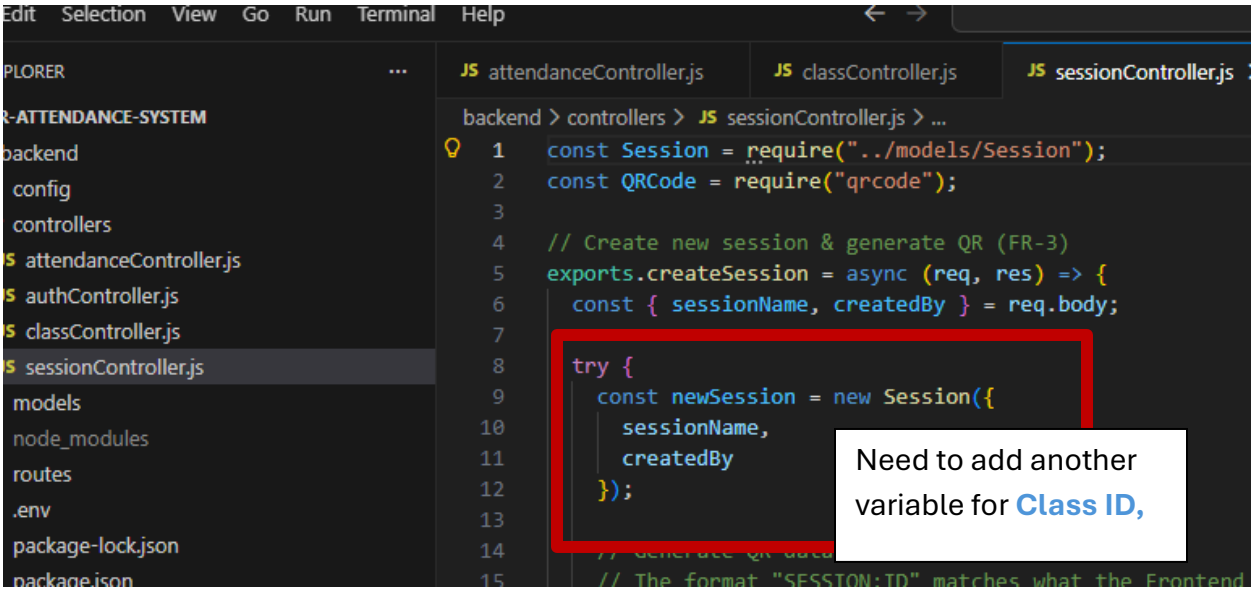
So the hierarchy should look like this:

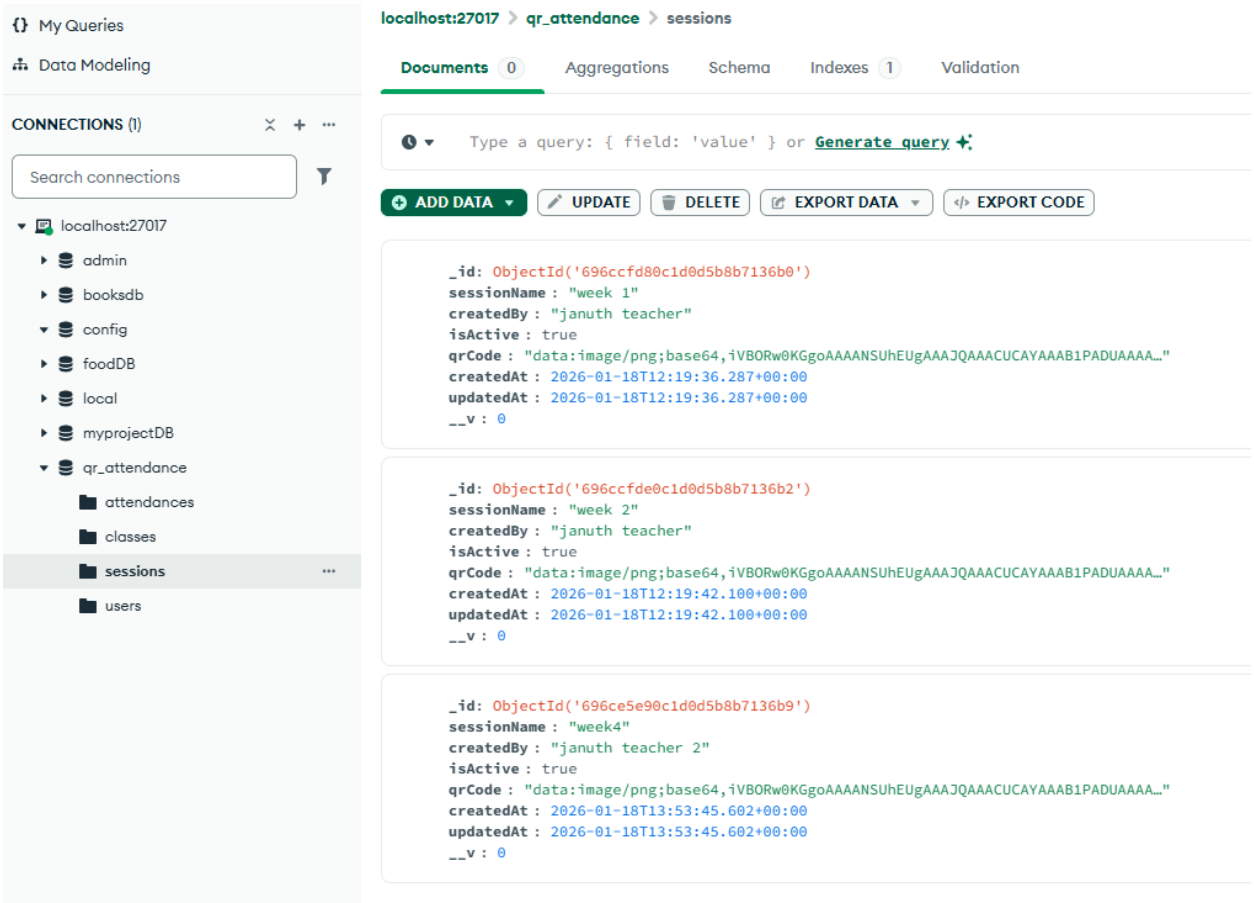
Class (Subject)
↓
User (Teacher)
↓
Session (Attendance Instance)

Proposed Solution :

We give the Teacher the option to select the subject first before creating a session


Teacher Dashboard
Welcome, januth teacher
Create Session
Create Class
Update
Create Attendance Session
Enter Session Name (e.g. Week 9)
Generate QR Code
Add a dropdown here, listing the classes available to each teacher.
After selecting a subject the "Session Name" field will be enabled and the teacher can go ahead with creating a session
This Session Name field should be initially disabled until the subject/class is selected from the dropdown


Edit Selection View Go Run Terminal Help
attendanceController.js
classController.js
sessionController.js
backend > controllers > sessionController.js > ...
const Session = require("../models/Session");
const QRCode = require("qrcode");
// Create new session & generate QR (FR-3)
exports.createSession = async (req, res) => {
const { sessionName, createdBy } = req.body;
try {
const newSession = new Session({
sessionName,
createdBy
});
backend
config
controllers
attendanceController.js
authController.js
classController.js
sessionController.js
models
node_modules
routes
.env
package-lock.json
Need to add another variable for Class ID,



There needs to be some extra variables in DB for a “session”:

{
 _id,
 sessionName,
 createdBy,
 classId: Class ObjectId, // links the session to a class
 teacherId: Teacher ObjectId, // we have createdBy, but better to add the teacher ID as well
 isActive,
 qrCode,
 createdAt,
 updatedAt
}