Validation Checklist

LAB6

WALEED MOHAMMED MUTIQ ALTHUBYANI

Education tracking system

This system will have students, guardians, teachers, and administrators.

Student Model:

Student has: name, email, password, schoolName, joinDate, className, grade, listOfCourses, listofGrades, listOfNotes, and transcript. A student can only read his information and add courses to his list.

@NotEmpty(message="Please provide the student name")

studentName

@NotEmpty(message="Please provide the student email")

@Email(message="Please provide a valid email address")

studentEmail

@NotEmpty(message="Please provide a password")

@Pattern(regex="^(?=.*[0-9])(?=.*[a-z])(?=.*[A-Z])(?=.*[!@#&()–[{}]:;',?/*~$^+=<>]).{8,20}$", message = "Password must contain at least one digit [0-9].\nPassword must contain at least one lowercase Latin character [a-z].\nPassword must contain at least one uppercase Latin character [A-Z].\nPassword must contain at least one special character like ! @ # & ( ).\nPassword must contain a length of at least 8 characters and a maximum of 20 characters.")

studentPassword

@NotEmpty(message="Please provide the student's name")

schoolName

@NotEmpty(message="Please provide the date the student joined")

@PastOrPresent(message="The date can only be today or in the past")

joinDate

@NotEmpty(message="Please provide the student's class name")

@Size(min = 3,max = 3,message="class name can only be 3 characters long")

studentClass

@NotEmpty(message="Please provide the grade this student will start at")

grade

@NotNull(message="Please provide at least one course for the student")

ArrayList<Course> studentCourses

@NotNull(message="Please provide the student grade for each of his courses")

ArrayList<double> studentGrades

@NotNull(message="please provide a note about the student")

ArrayList<String> listOfNotes

Transcript

Guardian Model:

Guardian has: name, email, password, listOfDependents. A guardian can read his dependents information, apply for transfer, and withdraw dependent from school.

@NotEmpty(message="Please provide the guardian's name")

name

@NotEmpty(message="Please provide the guardian's email address")

@Email(message="Please enter a valid email address")

Email

@NotEmpty(message="Please enter a password")

@Pattern(regex="^(?=.*[0-9])(?=.*[a-z])(?=.*[A-Z])(?=.*[!@#&()–[{}]:;',?/*~$^+=<>]).{8,20}$", message = "Password must contain at least one digit [0-9].\nPassword must contain at least one lowercase Latin character [a-z].\nPassword must contain at least one uppercase Latin character [A-Z].\nPassword must contain at least one special character like ! @ # & ( ).\nPassword must contain a length of at least 8 characters and a maximum of 20 characters.")

password

@NotEmpty(message="Please provide a list of all this guardian dependencies")

ArrayList<Student> listOfDependents

Teacher Model:

Teacher has: name, email, password, schoolName, startDate, course, listOfStudents. A teacher can add a grade to a student that they teach. They can also leave notes on their students that the guardian can read.

@NotEmpty(message="Please provide the teacher's name")

name

@NotEmpty(message="Please provide the teacher's email")

@Email(message="Please enter a valid email address")

Email

@NotEmpty(message="Please enter a password")

@Pattern(regex="^(?=.*[0-9])(?=.*[a-z])(?=.*[A-Z])(?=.*[!@#&()–[{}]:;',?/*~$^+=<>]).{8,20}$", message = "Password must contain at least one digit [0-9].\nPassword must contain at least one lowercase Latin character [a-z].\nPassword must contain at least one uppercase Latin character [A-Z].\nPassword must contain at least one special character like ! @ # & ( ).\nPassword must contain a length of at least 8 characters and a maximum of 20 characters.")

Password

@NotEmpty(message="Please provide the school name this teacher works at")

schoolName

@NotEmpty(message="Please provide the date this teacher started working")

@PastOrPresent(message="A teacher must be already working here to register")

startDate

@NotEmpty(message="Please provide the course this teacher will teach")

course

@NotNull(message="Please provide a list of student that this teacher will teach")

ArrayList<Strudent> listOfStudents

Administrator Model:

An administrator have: name, email, password, startDate, schoolName, listOfTeachers. An administrator will have full access to all data of their school. They can add and remove teachers and students.

@NotEmpty(message="Please provide the administrator's name")

name

@NotEmpty(message="Please provide an email address")

@Email(message="Please provide a valid email address")

email

@NotEmpty(message="Please enter a password")

@Pattern(regex="^(?=.*[0-9])(?=.*[a-z])(?=.*[A-Z])(?=.*[!@#&()– [{}]:;',?/*~$^+=<>]).{8,20}$", message = "Password must contain at least one digit [0-9].\nPassword must contain at least one lowercase Latin character [a-z].\nPassword must contain at least one uppercase Latin character [A-Z].\nPassword must contain at least one special character like ! @ # & ( ).\nPassword must contain a length of at least 8 characters and a maximum of 20 characters.")

Password

@NotEmpty(message="Please provide the date this administrator started working")

@PastOrPresent(message="Start date can only be today or in the past")

startDate

@NotEmpty(message="Please provide the name of the school this administrator will be part of")

schoolName

@NotNull(message="Please provide a list of the teachers in this school")

ArrayList<Teacher> listOfTeachers