



## UNIVERSIDAD DE LAS FUERZAS ARMADAS ESPE

COMPUTER SCIENCE DEPARTMENT

ADVANCED WEB DEVELOPMENT

URIS CORRECTION - UNIT 2

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### BUSINESS RULES APIs

#### STUDENTS (Business Rules)

##### 1. STU-01

ACTION: Update student personal data (validated & role-protected)

METHOD: PUT

URI: <https://nicekidscenter.onrender.com/api/students/5>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "address": "Nueva dirección",  
  "email": "nuevoemail@gmail.com",  
  "phoneNumber": "0998877665"  
}
```

Response :

```
{  
  "message": "Student updated successfully",  
  "status": "success",  
  "student": {  
    "id": 5,  
    "firstName": "Nombre",  
    "lastName": "Apellido",  
    "address": "Nueva dirección",  
    "email": "nuevoemail@gmail.com",  
    "phoneNumber": "0998877665",  
    "gradeId": 1,  
    "isActive": 1  
  } }  
}
```

## **2. STU-02**

ACTION: Upload student profile picture (image validation + storage)

METHOD: POST

URI: <https://nicekidscenter.onrender.com/api/students/2/profile-picture>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "imageBase64": "..."  
}
```

Response :

```
{  
  "message": "Profile picture uploaded",  
  "profilePictureUrl": "https://cdn.nicekidscenter/.../student_2.png",  
  "studentId": 2  
}
```

## **3. STU-03**

ACTION: Bulk student import (CSV → validated batch)

METHOD: POST

URI: <https://nicekidscenter.onrender.com/api/students/import>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "fileBase64":  
    "data:text/csv;base64,QmlydGhEYXRILEZpcnN0TmFtZSxMYXN0TmFtZSxEb2N1bWVud  
    E51bWJlcixHcmFkZUlECiIyMDIwLTA1LTIwIwiQ2FybG9zIwiQmVuaXRleilsljE3NTQ4  
    OTYzMjEiLDMK",  
  "defaultGradeId": 3,  
  "sendGuardianInvite": 1  
}
```

Response :

```
{  
  "message": "Import completed",  
  "processed": 25,  
  "created": 23,
```

```
"duplicates": 2,  
"errors": [  
    { "row": 7, "error": "Missing documentNumber" }  
]  
}
```

#### 4. STU-04

ACTION: Promote grade students (mass status update)

METHOD: POST

URI: <https://nicekidscenter.onrender.com/api/grades/3/promote>

JSON REQUEST / RESPONSE:

Request:

```
{  
    "targetGradeId": 4,  
    "effectiveDate": "2024-08-15"  
}
```

Response :

```
{  
    "message": "Promotion executed",  
    "fromGradeId": 3,  
    "toGradeId": 4,  
    "studentsMoved": 18  
}
```

#### 5. STU-05

ACTION: Student status change (reason logging)

METHOD: PUT

URI: <https://nicekidscenter.onrender.com/api/students/2/status>

JSON REQUEST / RESPONSE:

Request:

```
{  
    "isActive": 0,  
    "reason": "Transfer to another center"  
}
```

Response :

```
{  
  "message": "Status updated",  
  "studentId": 2,  
  "isActive": 0  
}
```

## 6. STU-06

ACTION: Guardian link (transactional: link guardian to student)

METHOD: POST

URI: <https://nicekidscenter.onrender.com/api/students/2/guardians/link>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "guardianId": 12,  
  "relationship": "Father"  
}
```

Response :

```
{  
  "message": "Guardian linked",  
  "studentId": 2,  
  "guardianId": 12  
}
```

## 7. STU-07

ACTION: Guardian unlink (soft remove)

METHOD: DELETE

URI: <https://nicekidscenter.onrender.com/api/students/2/guardians/12>

JSON REQUEST / RESPONSE:

Response :

```
{  
  "message": "Guardian unlinked",  
  "studentId": 2,  
  "guardianId": 12  
}
```

## **8. STU-08**

ACTION: Student risk flag (computed) — flag student for review (attendance + behavior)

METHOD: POST

URI: <https://nicekidscenter.onrender.com/api/students/2/risk-flag>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "category": "Attendance",  
  "notes": "3 tardanzas consecutivas",  
  "severity": "Medium"  
}
```

Response :

```
{  
  "message": "Risk flag added",  
  "studentId": 2,  
  "flagId": 9  
}
```

## **ATTENDANCE (Business Rules)**

### **9. ATT-01**

ACTION: Register attendance (business rules: late detection, duplicate prevention)

METHOD: POST

URI: <https://nicekidscenter.onrender.com/api/attendance>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "studentId": 2,  
  "date": "2024-01-12",  
  "checkInTime": "08:05:00",  
  "status": "Present",  
  "isLate": 1,  
  "lateMinutes": 5  
}
```

Response :

```
{  
  "message": "Attendance registered",  
  "attendanceId": 123,  
  "isLate": 1,  
  "lateMinutes": 5  
}
```

## 10. ATT-02

ACTION: Generate monthly attendance summary (aggregated metrics for a grade)

METHOD: GET

URI: <https://nicekidscenter.onrender.com/api/attendance/summary/grade/3?month=2024-01>

JSON REQUEST / RESPONSE:

Response :

```
{  
  "gradeId": 3,  
  "month": "2024-01",  
  "students": 22,  
  "avgAttendancePercent": 92.4,  
  "lateCount": 34,  
  "absentCount": 12  
}
```

## 11. ATT-03

ACTION: Correct attendance record (audit: tracks original vs corrected)

METHOD: PUT

URI: <https://nicekidscenter.onrender.com/api/attendance/145/correction>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "newCheckInTime": "08:02:00",  
  "reason": "Clock synchronization error",  
  "approvedByEmpId": 5  
}
```

Response :

```
{  
  "message": "Attendance corrected",  
  "attendanceId": 145,  
  "previousCheckInTime": "08:10:00",  
  "newCheckInTime": "08:02:00"  
}
```

## PAYMENTS (Business Rules)

### 12. PAY-01

ACTION: Create payment (process + validation)

METHOD: POST

URI: <https://nicekidscenter.onrender.com/api/payments>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "studentId": 2,  
  "serviceType": "Monthly",  
  "monthlyFee": 50.00,  
  "totalAmount": 50.00,  
  "paymentMethod": "Cash",  
  "paymentDate": "2024-02-01"  
}
```

Response :

```
{  
  "message": "Payment recorded",  
  "paymentId": 45,  
  "status": "Paid"  
}
```

### 13. PAY-02

ACTION: Refund payment (business validation)

METHOD: POST

URI: <https://nicekidscenter.onrender.com/api/payments/45/refund>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "refundAmount": 15.00,  
  "reason": "Overpayment",  
  "processedByEmpId": 3  
}
```

Response :

```
{  
  "message": "Refund processed",  
  "paymentId": 45,  
  "refundAmount": 15.00,  
  "status": "Refunded"  
}
```

## INVOICES (Business Rules)

### 14. INV-01

ACTION: Create invoice (generate and link)

METHOD: POST

URI: <https://nicekidscenter.onrender.com/api/invoices>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "invoiceNumber": "INV-0040",  
  "invoiceType": "Student",  
  "referenceId": 2,  
  "issueDate": "2024-02-01",  
  "totalAmount": 50.00,  
  "finalAmount": 50.00,  
  "description": "Monthly fee"  
}
```

Response :

```
{  
  "message": "Invoice created successfully",  
  "invoiceId": 40,  
  "invoiceNumber": "INV-0040"  
}
```

## 15. INV-02

ACTION: Process partial payment (split invoice)

METHOD: POST

URI: <https://nicekidscenter.onrender.com/api/invoices/40/partial-payment>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "amountPaid": 20.00,  
  "paymentMethod": "Card",  
  "paymentDate": "2024-02-05"  
}
```

Response :

```
{  
  "message": "Partial payment recorded",  
  "invoiceId": 40,  
  "paidToDate": 20.00,  
  "remainingAmount": 30.00,  
  "status": "Partially Paid"  
}
```

## 16. INV-03

ACTION: Close invoice (manual override)

METHOD: PUT

URI: <https://nicekidscenter.onrender.com/api/invoices/40/close>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "closeReason": "Administrative adjustment",  
  "approvedByEmpId": 2  
}
```

Response :

```
{  
  "message": "Invoice closed",  
  "invoiceId": 40,  
  "status": "Closed"  
}
```

## 17. INV-04

ACTION: Generate invoice number (sequence)

METHOD: POST

URI: <https://nicekidscenter.onrender.com/api/invoices/next-number>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "prefix": "INV-"  
}
```

Response :

```
{  
  "message": "Number reserved",  
  "invoiceNumber": "INV-0041",  
  "expiresAt": "2024-02-01T12:00:00Z"  
}
```

## ACTIVITIES (Business Rules)

### 18. ACT-01

ACTION: Create activity (schedule conflicts + notifications)

METHOD: POST

URI: <https://nicekidscenter.onrender.com/api/activities>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "name": "Día del Color",  
  "description": "Los niños traerán ropa de colores.",  
  "gradeId": 1,  
  "scheduledDate": "2024-01-22",  
  "startTime": "09:00:00",  
  "endTime": "11:00:00",  
  "location": "Aula 3",  
  "category": "Event",  
  "status": "Planned"
```

}

Response :

```
{  
  "activityId": 21,  
  "message": "Activity created successfully"  
}
```

## 19. ACT-02

ACTION: Activity participation register (deduplicate)

METHOD: POST

URI: <https://nicekidscenter.onrender.com/api/activities/21/participants>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "studentId": 2,  
  "status": "Confirmed"  
}
```

Response :

```
{  
  "message": "Participation recorded",  
  "activityId": 21,  
  "studentId": 2  
}
```

## **20. ACT-03**

ACTION: Activity cancellation (with notification cascade)

METHOD: PUT

URI: <https://nicekidscenter.onrender.com/api/activities/21/cancel>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "cancelReason": "Clima adverso",  
  "notifyGuardians": 1  
}
```

Response :

```
{  
  "message": "Activity cancelled",  
  "activityId": 21,  
  "status": "Cancelled"  
}
```

## **21. ACT-04**

ACTION: Upload activity media

METHOD: POST

URI: <https://nicekidscenter.onrender.com/api/activities/5/media>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "mediaType": "Image",  
  "fileBase64": "...",  
  "caption": "Children painting"  
}
```

Response :

```
{  
  "message": "Media uploaded",  
  "mediaId": 77,  
  "activityId": 5  
}
```

## **22. ACT-05**

ACTION: Update activity (business rule: validate conflicts)

METHOD: PUT

URI: <https://nicekidscenter.onrender.com/api/activities/21>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "startTime": "10:00:00",  
  "endTime": "12:00:00",  
  "location": "Patio principal"  
}
```

Response :

```
{  
  "message": "Activity updated",  
  "activityId": 21  
}
```

## **23. ACT-06**

ACTION: Delete activity (if no participants or log cancellation)

METHOD: DELETE

URI: <https://nicekidscenter.onrender.com/api/activities/21>

JSON REQUEST / RESPONSE:

Response :

```
{  
  "message": "Activity deleted",  
  "activityId": 21  
}
```

# **USERS / ROLES / PERMISSIONS (Business Rules)**

## **24. UR-01**

ACTION: Assign role to user (access control)

METHOD: POST

URI: <https://nicekidscenter.onrender.com/api/users/5/roles>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "roleId": 2  
}
```

Response :

```
{  
  "message": "Role assigned",  
  "userId": 5,  
  "roleId": 2  
}
```

## 25. UR-02

ACTION: Assign permission to role

METHOD: POST

URI: <https://nicekidscenter.onrender.com/roles/1/permissions>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "status": "ok",  
  "message": "Permission assigned"  
}
```

Response :

```
{  
  "message": "Permission assigned to role",  
  "roleId": 1,  
  "permissionId": 4  
}
```

## 26. UR-03

ACTION: Role permission sync (replace all)

METHOD: PUT

URI: <https://nicekidscenter.onrender.com/api/roles/1/permissions>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "permissionIds": [1,2,4,6]  
}
```

Response :

```
{  
  "message": "Permissions replaced",  
  "roleId": 1,  
  "count": 4  
}
```

## 27. UR-04

ACTION: Lock role (prevent modifications)

METHOD: PUT

URI: <https://nicekidscenter.onrender.com/api/roles/2/lock>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "locked": 1,  
  "reason": "Core role protection"  
}
```

Response :

```
{  
  "message": "Role locked",  
  "roleId": 2,  
  "locked": 1  
}
```

## 28. UR-05

ACTION: Assign permission to role (alternate endpoint)

METHOD: POST

URI: <https://nicekidscenter.onrender.com/roles/1/permissions>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "status": "ok",  
  "message": "Permission assigned"  
}
```

Response :

```
{  
  "message": "Permission assigned to role",  
  "roleId": 1,  
  "permissionId": 4  
}
```

## 29. UR-06

ACTION: Remove permission from role

METHOD: DELETE

URI: <https://nicekidscenter.onrender.com/roles/1/permissions/1>

JSON REQUEST / RESPONSE:

Response :

```
{  
  "status": "ok",  
  "message": "Permission removed"  
}
```

## NOTIFICATIONS (Business Rules)

### 30. NOT-01

ACTION: Create notification (role-restricted broadcast)

METHOD: POST

URI: <https://nicekidscenter.onrender.com/api/notifications>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "targetRoles": ["Guardian", "Staff"],  
  "subject": "Reunión Padres",  
  "message": "La reunión será el 10 de mayo",  
  "sendEmail": 1  
}
```

Response :

```
{  
  "message": "Notification queued",  
  "notificationId": 220,  
  "recipients": 48  
}
```

### 31. NOT-02

ACTION: Mark notification as read

METHOD: PUT

URI: <https://nicekidscenter.onrender.com/api/notifications/20/read>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "isRead": 1,  
  "readAt": "2025-11-23T22:59:00"  
}
```

Response :

```
{  
  "message": "Notification marked as read",  
  "notificationId": 20,  
  "isRead": 1  
}
```

### **32. NOT-03**

ACTION: Bulk mark notifications read (user)

METHOD: PUT

URI: <https://nicekidscenter.onrender.com/api/users/5/notifications/read>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "notificationIds": [20,22,23],  
  "readAt": "2025-11-24T10:35:00Z"  
}
```

Response :

```
{  
  "message": "Notifications updated",  
  "updatedCount": 3  
}
```

### **33. NOT-04**

ACTION: Delete notification (business rule: allow admin delete)

METHOD: DELETE

URI: <https://nicekidscenter.onrender.com/api/notifications/220>

JSON REQUEST / RESPONSE:

Response :

```
{  
  "message": "Notification deleted",  
  "notificationId": 220  
}
```

## **TASKS / EMPLOYEES (Business Rules)**

### **34. TASK-01**

ACTION: Assign task with conflict check (create)

METHOD: POST

URI: <https://nicekidscenter.onrender.com/api/employees/1/tasks/assign>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "taskName": "Prepare Science lesson",  
  "description": "Materials for experiment",  
  "dueDate": "2024-05-18",  
  "priority": "High"  
}
```

Response :

```
{  
  "message": "Task assigned",  
  "taskId": 33  
}
```

### **35. TASK-02**

ACTION: Employee workload summary (return tasks and overdue metrics)

METHOD: GET

URI: <https://nicekidscenter.onrender.com/api/employees/1/workload>

JSON REQUEST / RESPONSE:

Response :

```
{  
  "empId": 1,  
  "pendingTasks": 5,  
  "overdueTasks": 1,  
  "nextDueDate": "2024-05-12"  
}
```

### **36. TASK-03**

ACTION: Reassign task (tracking)

METHOD: PUT

URI: <https://nicekidscenter.onrender.com/api/tasks/11/reassign>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "newEmpId": 4,  
  "reason": "Workload balancing"  
}
```

Response :

```
{  
  "message": "Task reassigned",  
  "taskId": 11,  
  "previousEmpId": 1,  
  "newEmpId": 4  
}
```

### 37. TASK-04

ACTION: Create a task for an employee

METHOD: POST

URI: <https://nicekidscenter.onrender.com/api/employees/1/tasks>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "taskName": "Grade assignments",  
  "description": "Grade homework for Grade 3",  
  "dueDate": "2024-05-15",  
  "status": "Pending"  
}
```

Response :

```
{  
  "taskId": 11,  
  "message": "Task created"  
}
```

### 38. TASK-05

ACTION: Delete employee (deactivate employee)

METHOD: DELETE

URI: <https://nicekidscenter.onrender.com/api/employees/3>

JSON REQUEST / RESPONSE:

Response :

```
{  
  "message": "Employee deactivated",  
  "empId": 3  
}
```

## **OBSERVATIONS (Business Rules)**

### **39. OBS-01**

ACTION: Add observation to student (requires possible follow-up)

METHOD: POST

URI: <https://nicekidscenter.onrender.com/api/students/2/observations>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "empId": 3,  
  "observationDate": "2024-01-20",  
  "category": "Attitude",  
  "observation": "Helped classmates",  
  "isPositive": 1,  
  "requiresAction": 0  
}
```

Response :

```
{  
  "message": "Observation added",  
  "observationId": 24  
}
```

### **40. OBS-02**

ACTION: Observation follow-up action (record follow-up)

METHOD: POST

URI: <https://nicekidscenter.onrender.com/api/observations/24/follow-up>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "empId": 3,  
  "followUpDate": "2024-02-01",  
  "notes": "Reunión con padres",  
  "resolved": 1  
}
```

Response :

```
{  
  "message": "Follow-up saved",  
  "observationId": 24,  
  "resolved": 1  
}
```

## ROLES (Business Rules)

### 41. ROLE-01

ACTION: Create role (with business checks)

METHOD: POST

URI: <https://nicekidscenter.onrender.com/roles>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "roleName": "Coordinator",  
  "description": "Role description"  
}
```

Response :

```
{  
  "roleId": 4,  
  "message": "Role created"  
}
```

## **42. ROLE-02**

ACTION: Delete role (business rule: prevent deleting system-locked roles)

METHOD: DELETE

URI: <https://nicekidscenter.onrender.com/roles/1>

JSON REQUEST / RESPONSE:

Response :

```
{  
  "status": "ok",  
  "message": "Role deleted"  
}
```

## **PERMISSIONS (Business Rules)**

### **43. PERM-01**

ACTION: List permissions (for UI and RBAC)

METHOD: GET

URI: <https://nicekidscenter.onrender.com/permissions>

JSON REQUEST / RESPONSE:

Response :

```
[  
  { "PermissionID": 1, "PermissionName": "Dashboard View", "Module": "Dashboard",  
    "Action": "view", "Link": "/html/welcome.html" },  
  { "PermissionID": 2, "PermissionName": "Users & Roles View", "Module": "Users &  
    Roles", "Action": "view", "Link": "/html/users/users-roles.html" },  
  { "PermissionID": 3, "PermissionName": "Users & Roles Edit", "Module": "Users &  
    Roles", "Action": "edit", "Link": null },  
  { "PermissionID": 4, "PermissionName": "Students View", "Module": "Students", "Action":  
    "view", "Link": "/html/students.html" }  
]
```

### **44. PERM-02**

ACTION: Get permission by ID

METHOD: GET

URI: <https://nicekidscenter.onrender.com/permissions/1>

JSON REQUEST / RESPONSE:

Response :

```
{  
  "PermissionID": 1,  
  "PermissionName": "Dashboard View",  
  "Module": "Dashboard",  
  "Action": "view",  
  "Description": "Control Panel"  
}
```

## AUDIT / DASHBOARD (Business Rules)

### 45. AUD-01

ACTION: Audit trail query (filtered by date & actor)

METHOD: GET

URI:

<https://nicekidscenter.onrender.com/api/audit?from=2024-01-01&to=2024-01-31&userId=10>

JSON REQUEST / RESPONSE:

Response :

```
[  
  {  
    "auditId": 88,  
    "action": "Provision User",  
    "tableName": "user",  
    "recordId": 200,  
    "timestamp": "2024-01-12T10:11:00Z"  
  }  
]
```

### 46. DASH-01

ACTION: Dashboard metrics snapshot (cached KPIs)

METHOD: GET

URI: <https://nicekidscenter.onrender.com/api/dashboard/metrics>

JSON REQUEST / RESPONSE:

Response :

```
{  
  "activeStudents": 140,  
  "activeGuardians": 120,  
  "pendingInvoices": 7,  
  "todayAttendancePercent": 89.3  
}
```

## CRUD APIs

### STUDENTS (CRUD)

#### 47. STU-01

ACTION: Get student by ID

METHOD: GET

URI: <https://nicekidscenter.onrender.com/api/students/2>

JSON REQUEST / RESPONSE:

Response:

```
{  
  "id": 2,  
  "firstName": "Fabricio",  
  "lastName": "Roman",  
  "birthDate": "2022-12-16",  
  "gender": "Male",  
  "documentNumber": "1754896475",  
  "address": "dirección...",  
  "email": "estudiante@gmail.com",  
  "phoneNumber": "0987456987",  
  "gradeId": 1,  
  "profilePicture": "img",  
  "emergencyContact": "Father",  
  "emergencyPhone": "0987456987",  
  "enrollmentDate": "2023-12-16",  
  "isActive": 1
```

}

## 48. STU-02

ACTION: Get students by grade

METHOD: GET

URI: <https://nicekidscenter.onrender.com/api/students/grade/1>

JSON REQUEST / RESPONSE:

Response:

```
[  
  {  
    "id": 2,  
    "firstName": "Fabricio",  
    "lastName": "Roman",  
    "gradeId": 1  
  }  
]
```

## 49. STU-03

ACTION: Create student

METHOD: POST

URI: <https://nicekidscenter.onrender.com/api/students>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "firstName": "Carlos",  
  "lastName": "Benitez",  
  "birthDate": "2020-05-20",  
  "gender": "Male",  
  "documentNumber": "1754896321",  
  "address": "Av. Siempre Viva",  
  "email": "carlos@gmail.com",  
  "phoneNumber": "0992211445",  
  "gradeId": 3,  
  "emergencyContact": "Mother",  
}
```

```
"emergencyPhone": "0911223344",
"enrollmentDate": "2024-01-10"
}
```

Response :

```
{
  "message": "Student created",
  "studentId": 27
}
```

## 50. STU-04

ACTION: Find student by document number

METHOD: GET

URI: <https://nicekidscenter.onrender.com/api/students/by-document/1754896100>

JSON REQUEST / RESPONSE:

Response:

```
{
  "id": 7,
  "firstName": "Luis",
  "lastName": "Chavez",
  "documentNumber": "1754896100"
}
```

## 51. STU-05

ACTION: Get guardians of a student

METHOD: GET

URI: <https://nicekidscenter.onrender.com/api/students/2/guardians>

JSON REQUEST / RESPONSE:

Response:

```
[
  {
    "guardianId": 4,
    "firstName": "Maria",
    "lastName": "Roman",
  }
]
```

```
        "relationship": "Mother",  
        "phoneNumber": "098556677"  
    }  
]
```

## 52. STU-06

ACTION: Add guardian to student

METHOD: POST

URI: <https://nicekidscenter.onrender.com/api/students/2/guardians>

JSON REQUEST / RESPONSE:

Request:

```
{  
    "firstName": "José",  
    "lastName": "Roman",  
    "documentNumber": "1745699800",  
    "relationship": "Father",  
    "phoneNumber": "097885664",  
    "email": "jroman@gmail.com",  
    "address": "Dirección del padre"  
}
```

Response :

```
{  
    "message": "Guardian added",  
    "guardianId": 12  
}
```

## 53. STU-07

ACTION: Get active students

METHOD: GET

URI: <https://nicekidscenter.onrender.com/api/students/status/active>

JSON REQUEST / RESPONSE:

Response:

```
[
```

```
{ "id": 2, "firstName": "Fabricio", "isActive": 1 }  
]
```

#### **54. STU-08**

ACTION: Get student attendance records

METHOD: GET

URI: <https://nicekidscenter.onrender.com/api/students/2/attendance>

JSON REQUEST / RESPONSE:

Response:

```
[  
 {  
   "attendanceId": 15,  
   "date": "2024-01-09",  
   "checkInTime": "08:00:00",  
   "checkOutTime": "12:30:00",  
   "status": "Present",  
   "isLate": 0  
 }
```

```
]
```

#### **55. STU-09**

ACTION: Get student payments

METHOD: GET

URI: <https://nicekidscenter.onrender.com/api/students/2/payments>

JSON REQUEST / RESPONSE:

Response:

```
[  
 {  
   "paymentId": 3,  
   "totalAmount": 45.00,  
   "paidAmount": 45.00,  
   "status": "Paid",  
   "paymentDate": "2024-01-05"  
 }
```

]

## 56. STU-10

ACTION: Get student invoices

METHOD: GET

URI: <https://nicekidscenter.onrender.com/api/invoices/student/2>

JSON REQUEST / RESPONSE:

Response:

[

{

```
"invoiceId": 10,  
"invoiceNumber": "INV-0021",  
"issueDate": "2024-01-03",  
"finalAmount": 50.00,  
"status": "Paid"
```

}

]

## 57. STU-11

ACTION: Get student observations

METHOD: GET

URI: <https://nicekidscenter.onrender.com/api/students/2/observations>

JSON REQUEST / RESPONSE:

Response:

[

{

```
"observationId": 8,  
"observationDate": "2024-01-11",  
"category": "Conduct",  
"observation": "Very participative",  
"isPositive": 1
```

}

]

## **58. STU-12**

ACTION: Add observation to student

METHOD: POST

URI: <https://nicekidscenter.onrender.com/api/students/2/observations>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "empId": 3,  
  "observationDate": "2024-01-20",  
  "category": "Attitude",  
  "observation": "Helped classmates",  
  "isPositive": 1,  
  "requiresAction": 0  
}
```

Response :

```
{  
  "message": "Observation added",  
  "observationId": 24  
}
```

## **59. STU-13**

ACTION: Delete student (soft-delete)

METHOD: DELETE

URI: <https://nicekidscenter.onrender.com/api/students/2>

JSON REQUEST / RESPONSE:

Response :

```
{  
  "message": "Student deactivated",  
  "studentId": 2  
}
```

## **ATTENDANCE (CRUD)**

### **60. ATT-01**

ACTION: Create attendance

METHOD: POST

URI: <https://nicekidscenter.onrender.com/api/attendance>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "studentId": 2,  
  "date": "2024-01-12",  
  "checkInTime": "08:05:00",  
  "status": "Present",  
  "isLate": 1,  
  "lateMinutes": 5  
}
```

Response :

```
{  
  "message": "Attendance recorded",  
  "attendanceId": 100  
}
```

## PAYMENTS (CRUD)

### 61. PAY-01

ACTION: Create payment

METHOD: POST

URI: <https://nicekidscenter.onrender.com/api/payments>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "studentId": 2,  
  "serviceType": "Monthly",  
  "monthlyFee": 50.00,  
  "totalAmount": 50.00,  
  "paymentMethod": "Cash",  
  "paymentDate": "2024-02-01"
```

```
}
```

Response :

```
{
  "message": "Payment created",
  "paymentId": 3
}
```

## INVOICES (CRUD)

### 62. INV-01

ACTION: Create invoice

METHOD: POST

URI: <https://nicekidscenter.onrender.com/api/invoices>

JSON REQUEST / RESPONSE:

Request:

```
{
  "invoiceNumber": "INV-0040",
  "invoiceType": "Student",
  "referenceId": 2,
  "issueDate": "2024-02-01",
  "totalAmount": 50.00,
  "finalAmount": 50.00,
  "description": "Monthly fee"
}
```

Response :

```
{
  "invoiceId": 40,
  "message": "Invoice created"
}
```

## GRADES / ACTIVITIES (CRUD)

### 63. GRAD-01

ACTION: Get activities for a grade

METHOD: GET

URI: <https://nicekidscenter.onrender.com/api/grades/1/activities>

JSON REQUEST / RESPONSE:

Response:

```
[  
 {  
   "activityId": 5,  
   "name": "Pintura",  
   "scheduledDate": "2024-01-20"  
 }  
]
```

## 64. ACT-01

ACTION: Create activity

METHOD: POST

URI: <https://nicekidscenter.onrender.com/api/activities>

JSON REQUEST / RESPONSE:

Request:

```
{  
   "name": "Día del Color",  
   "description": "Los niños traerán ropa de colores.",  
   "gradeId": 1,  
   "scheduledDate": "2024-01-22",  
   "startTime": "09:00:00",  
   "endTime": "11:00:00",  
   "location": "Aula 3",  
   "category": "Event",  
   "status": "Planned"  
 }
```

Response :

```
{  
   "activityId": 21,
```

```
"message": "Activity created"  
}
```

## 65. ACT-02

ACTION: Upload activity media

METHOD: POST

URI: <https://nicekidscenter.onrender.com/api/activities/5/media>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "mediaType": "Image",  
  "fileBase64": "...",  
  "caption": "Children painting"  
}
```

Response :

```
{  
  "message": "Media uploaded",  
  "mediaId": 77  
}
```

## 66. ACT-03

ACTION: Delete activity

METHOD: DELETE

URI: <https://nicekidscenter.onrender.com/api/activities/21>

JSON REQUEST / RESPONSE:

Response :

```
{  
  "message": "Activity deleted",  
  "activityId": 21  
}
```

## EMPLOYEES (CRUD)

### 67. EMP-01

ACTION: Get all employees

METHOD: GET

URI: <https://nicekidscenter.onrender.com/api/employees>

JSON REQUEST / RESPONSE:

Response:

```
[  
  {  
    "empId": 1,  
    "firstName": "Ana",  
    "lastName": "Gomez",  
    "position": "Teacher",  
    "email": "ana@mail.com"  
  },  
  {  
    "empId": 2,  
    "firstName": "Carlos",  
    "lastName": "Mendez",  
    "position": "Staff",  
    "email": "carlos@mail.com"  
  }  
]
```

## 68. EMP-02

ACTION: Get employee by ID

METHOD: GET

URI: <https://nicekidscenter.onrender.com/api/employees/1>

JSON REQUEST / RESPONSE:

Response:

```
{  
  "empId": 1,  
  "firstName": "Ana",  
  "lastName": "Gomez",  
  "position": "Teacher",  
  "email": "ana@mail.com",
```

```
"phoneNumber": "0999888777",
"address": "123 Main St",
"hireDate": "2023-01-12",
"salary": 1200
}
```

## 69. EMP-03

ACTION: Create employee

METHOD: POST

URI: <https://nicekidscenter.onrender.com/api/employees>

JSON REQUEST / RESPONSE:

Request:

```
{
  "firstName": "Luis",
  "lastName": "Perez",
  "position": "Staff",
  "email": "luis@mail.com",
  "phoneNumber": "099112233",
  "address": "Calle Falsa 123",
  "hireDate": "2024-02-02",
  "salary": 900
}
```

Response :

```
{
  "empId": 11,
  "message": "Employee created"
}
```

## 70. EMP-04

ACTION: Update employee

METHOD: PUT

URI: <https://nicekidscenter.onrender.com/api/employees/3>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "position": "Senior Teacher",  
  "salary": 1500  
}
```

Response :

```
{  
  "message": "Employee updated",  
  "empId": 3  
}
```

## 71. EMP-05

ACTION: Get employee tasks

METHOD: GET

URI: <https://nicekidscenter.onrender.com/api/employees/1/tasks>

JSON REQUEST / RESPONSE:

Response:

```
[  
  {  
    "taskId": 10,  
    "taskName": "Prepare Math lesson",  
    "description": "Prepare curriculum for Grade 3 math",  
    "dueDate": "2024-05-10",  
    "status": "Pending"  
  }  
]
```

## 72. EMP-06

ACTION: Create a task for an employee

METHOD: POST

URI: <https://nicekidscenter.onrender.com/api/employees/1/tasks>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "taskName": "Grade assignments",  
  "description": "Grade homework for Grade 3",  
  "dueDate": "2024-05-15",  
  "status": "Pending"  
}
```

Response :

```
{  
  "taskId": 11,  
  "message": "Task created"  
}
```

## ROLES (CRUD)

### 73. ROLE-01

ACTION: Get roles (list)

METHOD: GET

URI: <https://nicekidscenter.onrender.com/api/roles>

JSON REQUEST / RESPONSE:

Response:

```
[  
  {  
    "roleId": 1,  
    "roleName": "Admin",  
    "description": "Administrator with all permissions"  
  },  
  {  
    "roleId": 2,  
    "roleName": "Staff",  
    "description": "Center staff"  
  }  
]
```

## **74. ROLE-02**

ACTION: Get roles (alternate path)

METHOD: GET

URI: <https://nicekidscenter.onrender.com/roles>

JSON REQUEST / RESPONSE:

Response:

```
[  
  { "RoleID": 1, "RoleName": "Admin", "Description": "Rol administrador con todos los permisos" },  
  { "RoleID": 2, "RoleName": "Staff", "Description": "Rol para empleados" },  
  { "RoleID": 3, "RoleName": "Guardian", "Description": "Rol para representantes" }  
]
```

## **75. ROLE-03**

ACTION: Get role by ID

METHOD: GET

URI: <https://nicekidscenter.onrender.com/roles/1>

JSON REQUEST / RESPONSE:

Response:

```
{  
  "RoleID": 1,  
  "RoleName": "Admin",  
  "Description": "Rol administrador con todos los permisos"  
}
```

## **76. ROLE-04**

ACTION: Create role

METHOD: POST

URI: <https://nicekidscenter.onrender.com/roles>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "status": "ok",
```

```
        "message": "Role created"  
    }
```

Response :

```
{  
    "roleId": 4,  
    "message": "Role created"  
}
```

## 77. ROLE-05

ACTION: Update role

METHOD: PUT

URI: <https://nicekidscenter.onrender.com/roles/1>

JSON REQUEST / RESPONSE:

Request:

```
{  
    "status": "ok",  
    "message": "Role updated"  
}
```

Response :

```
{  
    "message": "Role updated",  
    "roleId": 1  
}
```

## 78. ROLE-06

ACTION: Delete role

METHOD: DELETE

URI: <https://nicekidscenter.onrender.com/roles/1>

JSON REQUEST / RESPONSE:

Response :

```
{  
    "status": "ok",
```

```
        "message": "Role deleted"  
    }
```

## PERMISSIONS (CRUD)

### 79. PERM-01

ACTION: Get permissions (list)

METHOD: GET

URI: <https://nicekidscenter.onrender.com/permissions>

JSON REQUEST / RESPONSE:

Response:

```
[  
  { "PermissionID": 1, "PermissionName": "Dashboard View", "Module": "Dashboard",  
    "Action": "view", "Link": "/html/welcome.html" },  
  { "PermissionID": 2, "PermissionName": "Users & Roles View", "Module": "Users &  
    Roles", "Action": "view", "Link": "/html/users/users-roles.html" },  
  { "PermissionID": 3, "PermissionName": "Users & Roles Edit", "Module": "Users &  
    Roles", "Action": "edit", "Link": null },  
  { "PermissionID": 4, "PermissionName": "Students View", "Module": "Students", "Action":  
    "view", "Link": "/html/students.html" }  
]
```

### 80. PERM-02

ACTION: Get permission by ID

METHOD: GET

URI: <https://nicekidscenter.onrender.com/permissions/1>

JSON REQUEST / RESPONSE:

Response:

```
{  
  "PermissionID": 1,  
  "PermissionName": "Dashboard View",  
  "Module": "Dashboard",  
  "Action": "view",  
  "Description": "Control Panel"  
}
```

## **81. PERM-03**

ACTION: Get permissions for role

METHOD: GET

URI: <https://nicekidscenter.onrender.com/roles/1/permissions>

JSON REQUEST / RESPONSE:

Response:

```
[  
  { "PermissionID": 1, "Module": "Dashboard", "Action": "view" },  
  { "PermissionID": 2, "Module": "Users & Roles", "Action": "view" },  
  { "PermissionID": 3, "Module": "Users & Roles", "Action": "edit" }  
]
```

## **82. PERM-04**

ACTION: Assign permission to role

METHOD: POST

URI: <https://nicekidscenter.onrender.com/roles/1/permissions>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "status": "ok",  
  "message": "Permission assigned"  
}
```

Response :

```
{  
  "message": "Permission assigned to role",  
  "roleId": 1,  
  "permissionId": 4  
}
```

## **83. PERM-05**

ACTION: Remove permission from role

METHOD: DELETE

URI: <https://nicekidscenter.onrender.com/roles/1/permissions/1>

JSON REQUEST / RESPONSE:

Response :

```
{  
  "status": "ok",  
  "message": "Permission removed"  
}
```

## USERS — Notifications (CRUD)

### 84. USR-01

ACTION: Get user notifications

METHOD: GET

URI: <https://nicekidscenter.onrender.com/api/users/5/notifications>

JSON REQUEST / RESPONSE:

Response:

```
[  
  {  
    "notificationId": 20,  
    "type": "Message",  
    "subject": "Parents meeting",  
    "message": "The meeting will be on May 10",  
    "isRead": 0  
  }  
]
```

## MISC (Deletes y updates sueltos)

### 85. MISC-01

ACTION: Update guardian details

METHOD: PUT

URI: <https://nicekidscenter.onrender.com/api/guardians/12>

JSON REQUEST / RESPONSE:

Request:

```
{  
  "phoneNumber": "099111222",  
  "address": "Nueva dirección"  
}
```

Response :

```
{
```

```
"message": "Guardian updated",
"guardianId": 12
}
```

## 86. MISC-02

ACTION: Delete guardian (soft)

METHOD: DELETE

URI: <https://nicekidscenter.onrender.com/api/guardians/12>

JSON REQUEST / RESPONSE:

Response :

```
{
  "message": "Guardian removed",
  "guardianId": 12
}
```

## 87. MISC-03

ACTION: Delete employee (deactivate)

METHOD: DELETE

URI: <https://nicekidscenter.onrender.com/api/employees/3>

JSON REQUEST / RESPONSE:

Response :

```
{
  "message": "Employee deactivated",
  "empId": 3
}
```

## 88. MISC-04

ACTION: Delete notification

METHOD: DELETE

URI: <https://nicekidscenter.onrender.com/api/notifications/220>

JSON REQUEST / RESPONSE:

Response :

```
{
  "message": "Notification deleted",
  "notificationId": 220
}
```