**Digital School System (DSS)**

Update 29.05.2021

I have changed all Monolithic system to Microservices for DSS with following services

1. Authentication Service
2. Permission service
   1. Roles
      1. Manager Role (can do anything)
         1. Have all Privileges
      2. Student Role (see only his area)
      3. Teacher Role
      4. Employee Role
      5. Contact Person Role
   2. Privileges
      1. Create new user as Student you must have a right to create a new user and there is
      2. Update user or Edit user
      3. Delete User
      4. Access management
      5. Add Role to users
      6. Delete Role form User
      7. Create a time table for Teachers and Student
      8. Room management
      9. Staff management
      10. Create a new Employee
      11. Involve Parent bei Registration
      12. Add a read and write Rights to partent
      13. Add a new Class Room

| **Privilege** | **Description** |
| --- | --- |
|  |  |
|  |  |
|  |  |
|  |  |

1. Student Service (Students management)
   1. Add Student ----------------------------------------------------- done
   2. Password forgotten
   3. Change password
   4. Reset password
   5. Add profile foto
   6. Add student note
   7. Add student report
   8. Edit Student info ----------------------------------------------------- done
   9. Show all Students ----------------------------------------------------- done
   10. Add Address to student
   11. Add Student to class
   12. Add Student to Exam or test
   13. Show Student report
   14. Show Student exams
   15. Import and export Students as Excel file or pdf files
   16. Show Student notes (Result)
   17. Add student to class
   18. Add contact person
2. Employee Service
   1. Show Employees ----------------------------------------------------- done
   2. Add new Employee ----------------------------------------------------- done
   3. Edit Employee ----------------------------------------------------- done
   4. Deactivate Employee
3. Manager Service
4. Teacher Service
5. Address Service
6. Calendar Service
7. Classes Service (Class management)
   1. Add new Class ----------------------------------------------------- done
   2. Show all classes ----------------------------------------------------- done
   3. Edit class ----------------------------------------------------- done
8. Timetable Service
9. Document Storage Service
   1. New Service for image + files uploading and downloading (it used for document, exams…us)
10. School service
    1. Show summary of all activity in the school
    2. Manage Guardians
    3. Summary of all students’ achievements
    4. Show Diagram with Teacher achievements
    5. Students Promotion
    6. Reports
    7. Attendance
    8. Fee Management
    9. Income & Expenses Management
    10. Salaries Management

Update 12.11.2020

Updated 11.11.2020 please see the visio diagram

Added 21.10.2020

New Model School Management System as desktop app, with following modules

1. Dashboard
   1. Sections
2. Manage Role
3. Biometric & Manuel Attendance
4. Biometric Attendance
5. ID-Cards (for Student, Teacher, Employee ….)
6. Exams & Results Card (Certificate)
   1. Add exam
   2. Show all exams Results
7. SMS Alerts (For Parent, Headmaster, Supervisor---)
8. Daily Auto Backups
9. Timetable
   1. Show all timetables
   2. Add new item to Timetable
10. Settings
    1. Change theme
    2. Change font size
11. Update
    1. Look for new update

17.04.2020

The DSS is multi languages (English, French and Arabic) and contain following areas

This is for version 2 of SMS (Web based application Angular 2 or mangolia)

* Administration’s Area
* Students (every student can see his own achievement )
* Parent Area (every parent can see info about his son)
* Teacher’s Area (every teacher see his own area and all info about his Students)
* Employee Area (every person can see his own infos)

**Functional Requirements**

Sunday, Weinheim 11.11.2018

Changed: Name of the application from **~~School Web Application~~** to **Digital School System** (**DSS**)

The DSS is multi languages (English, French and Arabic) and contain following areas

* Administration’s Area
* Students
* Parent Area
* Teacher’s Area
* Employee Area

1. Administration’s Area include following
   1. Basic information
      1. School name
      2. Logo
      3. School address + google Map guiding to school
   2. School registration number + starting date
   3. Fee information and Promotion
   4. Added or remove Module
   5. Timetable module
   6. Transport information (for the kids or students)
   7. School Contact information
   8. Upload Class and Section information (excel, csv, …)
   9. Update Schooler detail information (excel, csv, ...)
   10. Update staff details information (excel, csv, ...)
   11. Registration and assignation Class, Section, Student, Teacher…
   12. Transaction
   13. Attendance
   14. Homework
   15. Admission (Reports for Parent and Student for session 2018 - 2019)
   16. Annual Report
   17. Exam
   18. Manage Staff
   19. Transfer class
       1. Teacher’s Reports
       2. Director ‘s Repots
2. Schooler’s Area
3. Teacher’s Area
4. Employee Area

**Future Extensions**

1. Webinar for online Seminars
2. Online Exam
3. App for DSS

22.01.2018

Tables :-

7-0-Rights (Read, Write, update, Delete)

8-Group (Admin, Student, Staff, …..)

9-Group-Rights

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15.08.2016

The Name of the application is **School Web Application**

this application include following modules:-

Teacher :-

1. Add Student to his Class Room
2. View time table
3. Add/edit/delete a script
4. Add Students Marks
5. Connect with Parent to send a report

Student:-

1. View Psersonal infos
2. View Time Table
3. View Exam’s Mark
4. Connect with Teacher and School

Parent:-

1. View a report about his Child
2. View report about the school level (Marks)
3. View the activities of the school
4. Connect Director or Teacher

Role:-

1. Admin Role (create, update, delete, read)
2. Teacher Role (Create, Read, Update)
3. Student Role (read only own infos)
4. Emplyee Role (read only own infos)

Registration Formular: -

Additional documents for registration

Bring this registration form and the following documentation to the school office.

• Original Certified Birth Certificate  
• Original Social Security Card  
• Current Immunization Form  
• Current Proofs of Residence (ex. power, water or gas bill)  
• Other

Student Information

Name  First Name  Last Name

* Birth Date MonthDayYearPick a DateDate Picker Icon
* Gender 
* Nationality 
* Email Address
* Entry Year

 Grade  Semester 

* Have you previously applied to or attended this school?

YesNo

* Current Residence Information
* Address

Street Address

Street Address Line 2

CityState / Province

Postal / Zip Code

* Home Phone Number
* Primary Residence Information (if different from above)
* Address

Street Address

Street Address Line 2

CityState / Province

Postal / Zip Code

* Parent/Guardian Residence Information (if different from above)
* Address

Street Address

Street Address Line 2

CityState / Province

Postal / Zip Code

\*\* Emergency Contact Person

Name , Firstname

Telefon

\*\* Medical Information

Kind your illneses

Dr. Number

Previous School 1

1. School name
2. City
3. State
4. Date Started Date Ended
5. Note

Previous School 2

1. School name
2. City
3. State
4. Date Started Date Ended
5. Note

Previous School 3

1. School name
2. City
3. State
4. Date Started Date Ended
5. Note

Previous School 4

1. School name
2. City
3. State
4. Date Started Date Ended
5. Note

## What is student roll number? What is the advantage of assigning roll numbers?

Roll numbers are unique identification numbers that can be assigned to students at the time of admission or after admission. Roll numbers are unique to students within a section. Two students of a section cannot be assigned the same roll number.

To avoid instances of students of different sections having the same roll numbers, you can set a common prefix to all student roll numbers of each section. The prefix can help you to identify which class and section a student belongs to.

Before assigning roll numbers, you must choose how students are to be sorted in your school. Students can be sorted by **Admission no.**, **First Name**, or **Last Name**. After sorting the students, the first step is to set a prefix for all students in each section. The roll number prefix for students cannot be individually edited.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ID | Firstname | Lastname | Section | Class |  | Rollnumber |
| 1 | Mahamat | Abakar | S1 | C1 |  | MAS1C1\_1 |
| 2 | Ali | Abakar | S1 | C1 |  | AAS1C1\_2 |
| 3 | Tasnim | Abakar | S2 | C1 |  | TAS2C1\_3 |

Note:- **Administrator** or a**privileged employee** (**Manage student roll numbers** privilege must be provided) can assign and manage student roll numbers.

Some of the important pages/modules in which you will see student roll numbers are:

* Data Exports
* Student profile and student reports
* Attendance reports
* All reports in the Reports center
* All fee receipts
* Section summary
* Remarks
* Online Exam

In the following pages/modules, student admission numbers have been replaced with student roll numbers:

* Attendance register
* SMS
* Assignment