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The DSS is international and will be use in differnet languages (English, French and Arabic), it seperated in 2 levels backend (Microservice Java ) and frontend (Angular) and contain following services

* School Service
* BFF Service
* DM Service (Saving and reporting files)
* Student Service
* Teacher Service
* Timetable Service

## DSS Backend

### Interaction Flow

1. Frontend requests a report (e.g., a PDF or Excel) via the BFF service.
2. BFF calls the Student and/or Teacher service to fetch relevant data.
3. BFF forwards the data to the Document Management Service (DMS) along with the report format (PDF, Excel, etc.).
4. DMS generates the report using JasperReports and stores the file.
5. BFF provides the download link or returns the report file to the Frontend.

### School Service

Contain a main information about the school and management the module of the school

1. School name
2. school contact (adress) infos
3. School registration number + starting date
4. Logo
5. School address + google Map guiding to school
6. Add or remove Module
7. Fee information and Promotion
8. Show summary of all activity in the school
9. Manage Guardians
10. Summary of all students’ achievements
11. Show Diagram with Teacher achievements
12. Attendance
13. Fee Management
14. Income & Expenses Management
15. Salaries Management
16. Note
17. Others

### Backend-For-Frontend (BFF) Service

### Orchestrates Requests from Frontend (or External Client) to

### Student, Teacher and Document Management (DM) Service

### Makes API calls to fetch the Required data from Student, Teacher Services.

### Passes this Data to DM for reporting gernation

### Return the generate reports back to Frontend

### Authentication Service

### Document Management (DM) Service

* Handle **report generation** using **JasperRports**
* Stores generated reports (PDF, Excel, etc) in the file system or Cloud Storage service (like AWS S3)
* Expose APIs to generate and download reports based on data received ftom other services (e.g. from BFF)
* Stores repot template (JRXML files) and uses the to generate reports dynamically.

### Student Service (Students management)

* Focused on manging student data (CRUD operstaions, fetching student records)
* Provides an API to retrive student data.

1. Add Student ----------------------------------------------------- done
   1. Additional documents for registration
      1. Original Certified Birth Certificate
      2. Original Social Security Card
      3. Current Immunization Form
      4. Current Proofs of Residence (ex. power, water or gas bill)
      5. Other
2. Get All Students
3. get Student by (Id, name, lastname, email ….)
4. Password forgotten
   1. [http://localhost:8080/dss/api/v1/students/student/passwordforgot](http://localhost:8080/um/api/v1/students/student/passwordforgot)

link will be called with **email or username** you well receive a link to add a new password

* 1. After you receive this link you must click at it and give your password and confirm password the will be changed.

1. Reset password
   1. [http://localhost:8080/um/api/v1/students/student/{**student\_id**}/resetpassword](http://localhost:8080/um/api/v1/students/student/{student_id}/resetpassword)

Add a old password

Add a new password 1

Add a new password 2

Dann sent it become a message that your password changed successfully or not

* 1. After you receive a email with link to change or reset your password link look like this <http://localhost:8080/um/api/v1/students/student/{student_id}/{resetpassword_hashcode}/resetpassword>

1. Add profile foto
2. update Student
3. Add student note
4. Add student report
5. Edit Student info ----------------------------------------------------- done
6. Show all Students ----------------------------------------------------- done
7. Add Address to student
8. Add Student to class
9. Add Student to Exam or test
10. Show Student report
11. Show Student exams
12. Import and export Students as Excel file or pdf files
13. Show Student notes (Result)
14. Add contact person

### Timetable Service

1. Show all timetables
2. Add new item to Timetable

### Document Storage Service

1. New Service for image + files uploading and downloading (it used for document, exams…us)

### Teacher Service

### **Employee Service**

1. Manage Staff
2. Show Employees ----------------------------------------------------- done
3. Add new Employee ----------------------------------------------------- done
4. Edit Employee ----------------------------------------------------- done
5. Deactivate Employee

### Classes Service (Class management)

1. Add new Class ----------------------------------------------------- done
2. Show all classes ----------------------------------------------------- done
3. Edit class ----------------------------------------------------- done

### Report Service

1. Annual Report
2. Teacher’s Reports
3. Director ‘s Repots

**DSS Areas**

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

## DSS Frontend

Frontend is user interface and what user seen and react with it. It conatin following moulde

### Login

### Password forgotten

* 1. If you have forgot your password
     + 1. Click on password forgotten
       2. <http://localhost:8080/um/api/v1/students/student/forgotpassword> link will be called
       3. With following information **email or username** then email will be send to user with link to reset password in time < 1 day
       4. Give your email to become a link to add a new password
       5. Give password and confirm password must be equals
       6. You become message your password successful changed
  2. After that you can login with new password

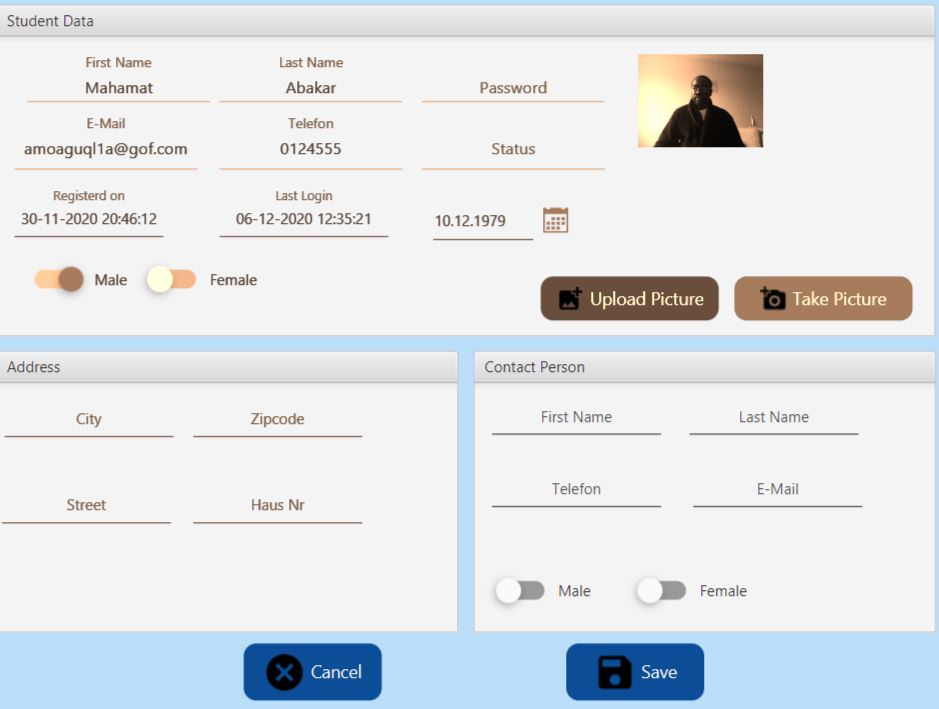
### Reset password

* 1. if dfsd If you want reset your password
     + 1. Click reset password
       2. [http://localhost:8080/um/api/v1/students/student/{**student\_id**}/resetpassword](http://localhost:8080/um/api/v1/students/student/{student_id}/resetpassword) this link will be called and automatically email will be send to user with link for changing password
       3. Add a old password
       4. Add a new password
       5. Add a confirmation password same as new password
       6. Dann sent it become a message that your password changed successfully or not
  2. After you receive a email with link to change or reset your password link look like this <http://localhost:8080/um/api/v1/students/student/{student_id}/{resetpassword_hashcode}/resetpassword>

After you receive this link you must click at it and give your password and confirm password the will be changed.

Registeration

### Student Registeration 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

 City State / 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

 City  State / Province

 Postal / Zip Code

**Future functions**

1. Biometric & Manuel Attendance
2. Biometric Attendance
3. ID-Cards (for Student, Teacher, Employee ….)
4. Exams & Results Card (Certificate)
   1. Add exam
   2. Show all exams Results
5. SMS Alerts (For Parent, Headmaster, Supervisor---)
6. Daily Auto Backups
7. View Psersonal infos
8. View Exam’s Mark
9. Timetable
   1. Show all timetables
   2. Add new item to Timetable
10. Connect with Teacher and School
11. Employee Area (every person can see his own infos)
    1. Show Employees
    2. Add new Employee
    3. Edit Employee
    4. Annual Report
    5. Exam
    6. Transfer class
       1. Teacher’s Reports
       2. Director ‘s Repots
12. Schooler’s Area
    1. Employee
13. 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
14. Student:-
    1. View Psersonal infos
    2. View Time Table
    3. View Exam’s Mark
    4. Connect with Teacher and School
15. 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
16. Dashboard
    1. Reports
    2. Show summary of all activity in the school
    3. Show Diagram with Teacher achievements
    4. Summary of all students’ achievements
    5. Show summary of school activities
    6. Show all exams Results
17. Settings
    1. Change theme
    2. Change font size

**Future Extensions**

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

### Permission service

* 1. Roles
     1. Manager Role (can do anything)
        1. Have all Privileges
     2. Student Role (see only his area)
     3. Contact Person Role
     4. Admin Role (create, update, delete, read)
     5. Teacher Role (Create, Read, Update)
     6. Student Role (read only own infos)
     7. Emplyee Role (read only own infos)
  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** |
| --- | --- |
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