**School Management System**

Control your virtual school!

**Note: The app is in active development and it’s receiving constant updates with new features! Everything is subject to change!**

1. **How to use the app:**

Currently, the only way to run the app is through the console – it hasn’t been deployed yet! Download the whole project and use a compatible Java IDE (IntelliJ Idea, Eclipse, etc.). Run the *SchoolManagementSystemApplication* class and you are all set to go!

Available commands at this moment: (to end the program – type *End*)

* Add Student – Type *AddStudent* on the console. The app will request all information needed for this operation. Follow the instructions!
* Add Teacher – Type *AddTeacher* on the console. The app will request all information needed for this operation. Follow the instructions!
* Add Employee – Type *AddEmployee* on the console. The app will request all information needed for this operation. Follow the instructions!
* Add Club – Type *AddClub* on the console. The app will request all information needed for this operation. Follow the instructions!
* Add Mark to a Student - Type *AddMarkToStudent* on the console. The app will request all information needed for this operation. Follow the instructions!
* Add Club to a Student - Type *AddClubToStudent* on the console. The app will request all information needed for this operation. Follow the instructions!
* Add Mark to a Student - Type *AddParentToStudent* on the console. The app will request all information needed for this operation. Follow the instructions!
* View Student – Type *ViewStudent* on the console. The app will request all information needed for this operation. Follow the instructions!
* View Teacher – Type *ViewTeacher* on the console. The app will request all information needed for this operation. Follow the instructions!
* View Employee – Type *ViewEmployee* on the console. The app will request all information needed for this operation. Follow the instructions!
* View Club – Type *ViewClub* on the console. The app will request all information needed for this operation. Follow the instructions!

1. **All versions:**

* **Current version – 1.10 – 19.01.2023**

The last console version of the project! You can now add and connect the last element in the software – Parent. If you want to connect a parent to a student, type command *AddParentToStudent*. You will automatically create a new parent first and then get asked to which student you want to connect the parent to.

* **Version – 1.9 – 18.01.2023**

Two new main commands were added – you can now evaluate a student (by adding a mark to its collection) and register a student for a specific club (by adding the club to its collection). There are two mapping tables for those actions – *students\_marks* and *students\_clubs*. The database diagram is attached in the **README** file.

The two new commands are *AddMarkToStudent* and *AddClubToStudent*.

* **Version – 1.8 – 12.01.2023**

We welcome clubs in our system! Easy to add a club – easy to view an info for a desired club (by its name). The two new commands are *AddClub* and *ViewClub.* Some changes were made to the database.

* **Version - 1.7 - 11.01.2023**

(*Two updates in one day…phew 😊*)

Employees are now fully available in our system. You can add a new employee or view data for a specific one – all up to you! Our school will work **only** with *4* departments:

1. "Administrative and management"
2. "Facilities"
3. "Pupil support and welfare"
4. "Specialist and technical"

When adding a new employee to your school, on the department field you must choose one of them. You can still add new towns and countries while adding a new employee but the same doesn’t apply to the departments. They are permanent! (the goal is to simulate a real environment with specific restrictions). A new *json* file was added containing the aforementioned departments. Тhere was a slight restructuring of the folders (*base folders*).

* **Version - 1.6 - 11.01.2023**

Refactoring and adding two new commands – *ViewStudent* and *ViewTeacher* (both requesting first and last name!). The two commands introduced with the previous update were integrated in the *addStudent* and *addTeacher* commands – now, when adding either a new student or a teacher, the software will check if the current town exists or not – if not, you will get asked if you want to add it. Alongside this, you might also add a new country if you wish to – a relation will be automatically created and saved in the database!

* **Version - 1.5 - 05.01.2023**

Two new commands related to the towns/countries relation were added – *addTown* and *addCountry*. Previously created txt.file-s were converted to **JSON** files. You can now freely add new towns and countries to the database and the software will automatically check if you also need to add a new country with the insertion of a new town – if not, a relation will be created!

* **Version - 1.4 - 03.01.2023**

You can now add a new teacher! With this new version, if you want to add either a new student or a new teacher in a town that currently isn’t included in the database, you will be asked if you want the desired town to be added in the database – YES (the town will be added) or NO (the command will end). Updated *application,properties* with more information.

* **Version - 1.3 - 31.12.2022**

New database model! The top 10 towns in Bulgaria were added and you will be able to register students in any of them. If you want to add a new town, simply add it in the “towns.txt” file or add a new student in the desired town – the system will automatically add it (*note: The app currently works only with towns in Bulgaria*)

Path – “*src/main/resources/DataBaseContent/towns.txt”*

* **Version - 1.2 - 30.12.2022**

The biggest update yet! Added DTOs for the needed classes, a whole repository package with repositories (interfaces) which will communicate with the database and its data. Services were added as well (both interfaces + classes). The very first command is now available – Add a student!

* **Version - 1.1 - 25.12.2022**

More classes and basic logic was implemented in the app. New interfaces and classes were introduced and even a new base entity – parent!

* **Version - 1.0 - 22.12.2022**

The base logic of the software was added! The system has its base entities, needed dependencies in the *pom.xml* file and the required connector to the database (MySQL).

* **Base release - 19.12.2022**

A repository in GitHub was opened! The app is about to release its first version!