

CODEDSOFT

We Develop the Future!

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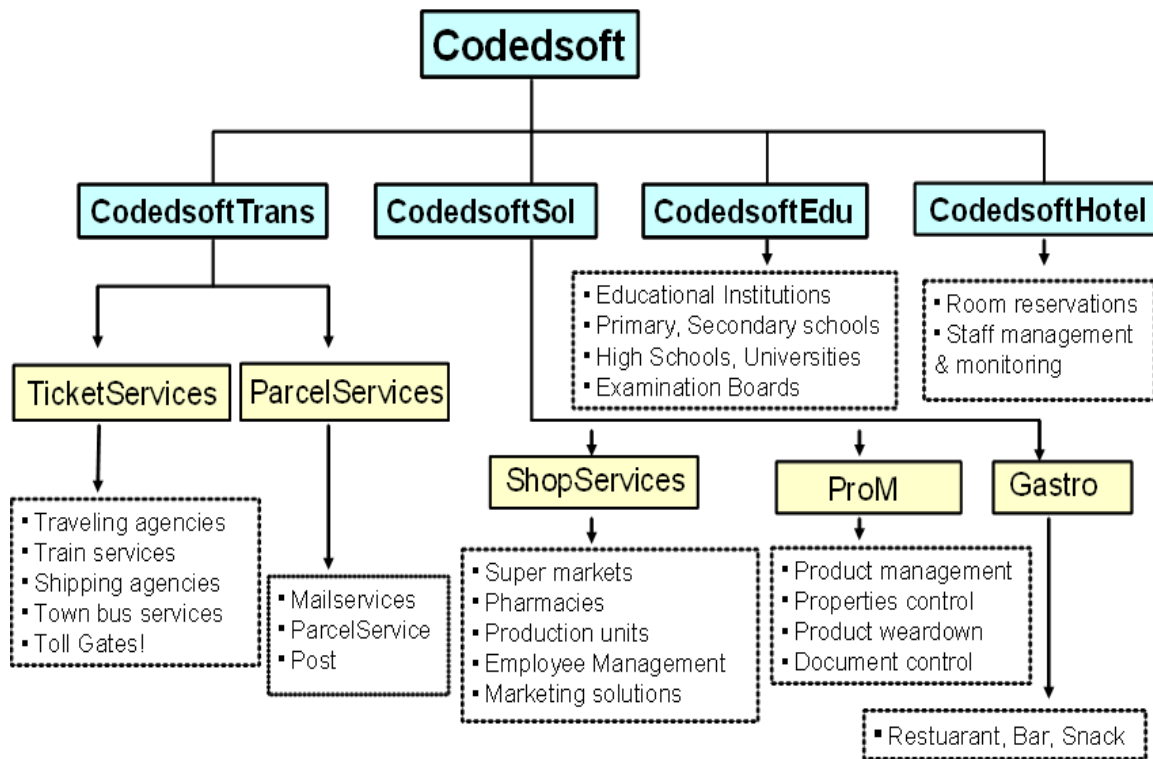
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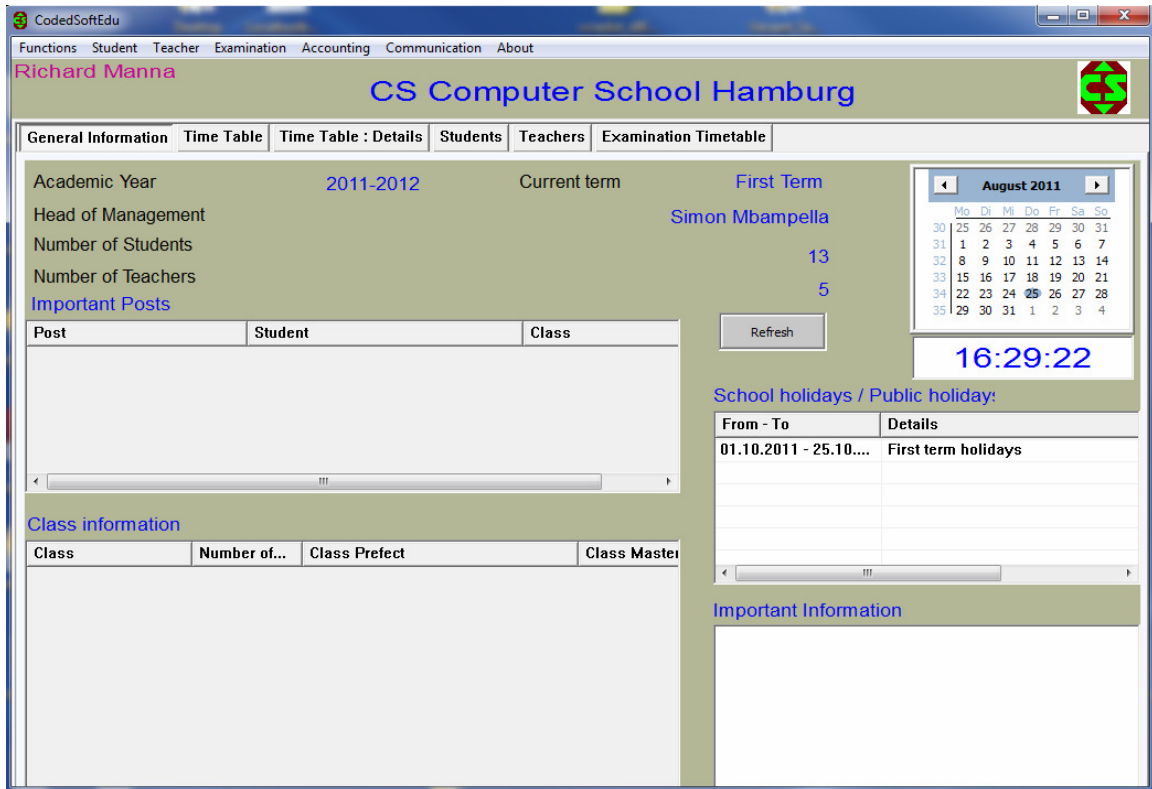
1. The company Codedsoft

Codedsoft is a software company specialised in the development of management and accounting applications. A good percentage of the Software Engineers working for Codedsoft are Cameroonians all over Europe. It currently has a development centre in Germany, resource management in France and England with training centres and offices in Cameroon. Codedsoft develops a variety of applications which are summarised in the figure below.



1.1 CodedsoftEdu

The branch of Codedsoft for educational institutions is CodedsoftEdu. This is a unique, high quality, reliable standard software solution for the management of all activities and processes in an educational institution. Teachers now concentrate on their teaching activities and the software takes care of the entire management from the registration and calculation of examination marks, printing of report cards to the management of the entire institution's finances.



CodedsoftEdu application main window

2. Introduction

The Software we are offering here is called **CodedsoftEdu**. This software is used to manage all activities and processes in educational institutions. These institutions range from nursery schools to universities. The strength of a country and the basis for its competitive power in all domains in the world is to a higher percentage defined by its educational system. With our current educational system a lot is still done manually. An automatic control and management system to track down all statistics, manages examinations, students and teachers' data, provide real time information to students, teachers and management, controls the school accounting system and provides transparency is either missing or not yet standardised. After analysing our educational system, we are providing a bespoke, unique, high quality, reliable standard software solution to help improve the system, structures and transforms it.

The software **CodedsoftEdu**

- Replaces and facilitates the complete daily manual works in an educational institution.
- Facilitates in easily and transparently visualizing exact academic state key indicators
- Manages the complete accounting of the educational institution
- Proactively eliminates human errors, frauds, provides high security for students', teachers' and institution's data. Data can be kept as long as desired
- Brings more transparency into the educational system.
- Examination marks, students' positions, class averages are automatically calculated taking care of promotions, failures and dismissals
- It transforms the educational system and creates means for students to be more aware of the challenging IT world as we intend that students will in future take active part in the development of such a module. Codedsoft intends to offer IT courses to students that will help them in any future engagement in the software and other software developments.

With this, the educational system attains lasting stability, accompanied with strong and recurring growth exhibitions as time and energy will be saved and teachers/professors will concentrate on their teaching activities and the software takes care of the entire management.

The software company Codedsoft offers training programs to train personnel to operate the system in the various institutions.

The software is developed for our system by our people and changes or modifications will be made at anytime where and when needed. In reality this should be seen as a local developed software where more will be done for the future and fate of our youths. It will lead to an evolving new direction in our educational system.

The software further provides a huge advantage to institutions' owners because of its accounting management functionalities.

3. CodedsoftEdu Specifications

This branch of the application CodedsoftEdu for educational institutions provides the above mentioned functionalities with the following outlined specifications.

3.1. Registration of students and classes

The software provides a registration system. All students are registered and the software generates unique immatriculation numbers for students. An immatriculation number is used to identify a student within an institution. Students can be searched in the system based on names as well as on immatriculation numbers. All necessary information about the student like place/date of birth, contact address will be needed for the registration.

All classes in the institution will be registered. Classes are registered with the subjects. Each subject is registered with its coefficient which is necessary for calculating students' examination results.

On the main application window, the total number of students, number of teachers in the institution will constantly be shown.

Students' absences, crimes committed and awards obtained from the institution will be tracked. Furthermore, each student will have a status which will be either

- **Active:** Meaning the student is currently active in the institution
- **Left:** Meaning the student has left the institution (perhaps transferred)
- **Finished:** The student has successfully finished from the institution
- **Dismissed:** The student is dismissed from the institution

3.2. Registration of teachers and workers

All teachers and workers in the institution can be registered in the software. Their daily teaching activities, absences can be managed with the software. Institution owners or management can also decide that the salaries of teachers and workers be managed with the software. The software will then provide a print function which prints monthly salaries for workers, should this be needed.

Teachers will be registered with the subjects they offer. If a teacher is absent, the system can therefore present a list of teachers who offer similar courses. From the list, a teacher can be selected to replace the one absent. The teacher for replacement will be searched based on the subjects the teacher offers.

Further information like awards given to teachers and important teachers' activities will be tracked by the application.

A login account will be provided for teachers if management desires. With such a login account,

- Teachers can log into the system and view their account details, view and print their individual time tables
- They can view registered marks for the individual subjects they offer. This way they can always check if there were registration errors. They cannot modify data in the system

3.3. Fees and accounting

Fee payment, complete or in installments is managed with the software. Fees are first configured based on classes. Day or boarding student fees are considered and used automatically. Depending on the class in which a student is in and the student type (e.g. day or boarding student), the software adjusts the appropriate fee. There is a student window that shows immediately, the fee and the amount still to be paid. Depending on the regulation of the school, it can be decided if only students who have completed their fees take part in the examinations. That way the software will block the registration of marks for students whose fees are not completed or allow the registration of marks but blocks the printing of report cards. This will be decided by management. The software provides statistics on how students pay their fees over their life time at the institution. Total amount collected for fee for all students will be shown for accounting purposes. The software integrates thermal receipt printers to print receipts for students on fee payment. The advantage of using a thermal printer here is that no ink will be needed; implying a huge reduction in expenditures.

3.4. Management of timetables

Both student's and teacher's timetables are managed in the software. Student timetable implies the class or faculty timetable. Teacher's timetable means each teacher's individual program. By entering a teacher's name in the software, it will immediately print out all details about that teacher and his/her teaching programs. Examination timetables are also managed with the software. Time tables are viewed per class, per teacher or for the whole institution.

3.5 Examinations and results

A lot of transparency is brought into the system by allowing the software manages examinations and students' results. Once teachers correct tests or examinations, the results are handed to a secretary working on the software who enters the examination

results (marks) in the system. The student immatriculation numbers are used to register the results. Based on the entered results (marks), the software calculates the averages, set the status as **PASSED** or **FAILED** and the student's position in class. It also automatically decides on the promotion status of the students. For security reason, the name of the operator registering or modifying the marks is tracked.

It is possible to convert marks to grades. Institutions can decide if the final results will be in grades. This is currently allowed only for final year classes. Grades can be in the form A, B, C, D, E, etc or 1, 1.x, 2, 2.x, 3, 3.x etc. Based on how the institution configures the system, marks are converted to grades and the decision on *Passed* or *Failed* is done by the software, based on the average or the number of subjects passed. Grades can also be directly registered. This can be important for final year's students who participate in external examinations. Once the results are out, these are sent to the institutions for registration.

Registered subject marks for any subject offered by a particular teacher can be printed and handed to the teacher for control before the release of the examination results. The software provides functions for this. If management decides, teachers will be provided with login accounts so that they can log in and check registered marks for the subjects they offer. Whether teachers will have rights to modify registered marks will be decided only by the institution's authority.

The number of time a student repeats a particular class is tracked. This can lead to dismissal depending on how the institution sets it. Dismissal can also be activated to be decided based on examination results below a defined average. The average threshold is set by the institution.

For easy visualisation before any end of year results, the system prints the name of all students who passed with a *white* background color, failed with a *yellow* background color and *dismissed* with a red background color.

Depending on this printed information, the authority can decide to change the average threshold for the software to recalculate the general results.

The system provides functions to register and view examination time tables.

3.6. Student report cards

There is a print function that will print student report cards. This function prints report cards per student or per class.

Per student means the student's data will be loaded and a button clicked for the report card of the student to be printed.

Per class means with a single click the report cards for all the students in the class will be printed.

Report cards will contain details about the subjects, marks, coefficients, averages and some institution's specific information as well as remarks. The printed reports can then be signed by the designated authority and handed to the students. Normally a report card will be printed only once. The institution's management can decide to print report cards several times. For any further printing, an administrative right will be needed.

3.7. Absences, crimes

Students' absences are registered in the software with reasons for the absences. Institutions can also decide to register crimes committed by students in the software. This information will then be summarised at the end of each term or semester or at any given time and shown. Crimes are entered with consequences. The consequence of a crime could either be a „*Warning*“ or „*Dismissal*“. The data of a dismissed student remain in the institution as long as desired.

Students' data

Students' data will be kept as long as the institution wants even after the student leaves the institution. The data includes all student's report cards, awards, responsibilities. Responsibilities include position as class prefect, school prefect, labour prefect, etc.

3.8. Expenditures / school incomes

For complete accounting, all the institutions' expenses can be registered in the software. This function is provided. Expenditures can range from purchase of books, examination materials including report card papers, IT equipments, tables, desks to the maintenance of school vans. The total school income will be subtracted from this to generate net income. Note that for this calculation, workers' salaries will fall under expenditures, should the software be configured to manage salaries.

3.9. Statistics

Different statistics are provided. Apart from the complete yearly examination result statistics, individual student's and teacher's statistics are also provided.

Students

- Student's fee payment statistics: When the fees are paid and who collected them
- Student's examination result statistics
- Student's awards statistics: The awards and when they were received
- Student's absences statistics: When the student was absent and the reasons
- Student's crimes statistics: The crime committed and when. Crimes will be registered with consequences which range from simple warnings to dismissal.

Teachers

- Teacher's awards statistics: The awards and when they were received
- Teacher's absences statistics: When the teacher was absent, the reasons and which teacher covers the lecture that day(if any)

3.10. Data Security

Codedsoft provides functionality for the security of data. Data can be registered and modified only by users with defined rights in the system. This means only persons with valid user names and passwords are allowed to do modifications. Data access only for read is also restricted. Only users with certain rights can view certain data. For example

- A teacher can view / modify only the examination results of the subjects he/she offers.
- The software tracks down the name of the users registering and modifying students' examination results. Management can see at anytime who made the last modifications on examination results.
- The name of any user who collects fees is also tracked and shown in the fee payment statistics.

Some operations are possible only with an administrative right. CodedSoft also provides functions for the constant backup of data. Backed up data can be sent to management anywhere for analysis. This can as well be sent over the internet. There is an automatic backup function which may be activated. This performs data backup automatically at the background.

4. Deployment

Codedsoft has trained personnel in place in Cameroon and is offering training courses to people all over the country. Trained personnel are therefore available to train workers in the various institutions to operate the application. Generally, secretaries in the institutions will be trained to work on the software. Training materials and guiding instructions on how to operate the software are provided. After installation, Codedsoft provides for the institutions Codedsoft experts to work on the application and train the institution workers for a month. Furthermore a complete video tutorial is provided for self learning. Codedsoft consultants can be contacted by the institution at anytime for further training and/or consultancy. For any institution who will like teachers to operate the system and register their students' marks and comments, we will provide training sessions to teachers and guiding materials on how to operate the system.

5. Services

Codedsoft provides services for all institutions. Trained personnel can be contacted by the institutions at anytime and the response from our side will be immediate. We can also be contacted directly online through our website.

Codedsoft will provide modifications on the software based on the demands of the institutions. Changes will be made on the software to suite new ministerial laws on the educational system or to suite particular institutions' needs.



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