Complete School management system ERP Version 7.1

Software design description document

Includes

- ✓ **all school management activities**
- ✓ **student management system**
- ✓ **finance management system**
- ✓ **Teacher management system**
- ✓ **academic management system**
- ✓ **attendance management system**
- ✓ **exam management system**
- ✓ **complete website**
- ✓ **mobile application for teacher, student, accountant, admin**
- ✓ **library management system**
- ✓ **transport services management system**
- ✓ **Student parent management**
- ✓ **Academic activity management**
- ✓ **Advanced security system**
- ✓ **Complete Online Learning management system**
- ✓ **Free Training and continues support**
- ✓ **Free deployment**

by

Developed by Abyssinia Software Solution Phone: 0940637672

0951050364

Website: https://abyssiniasoftware.com

Chapter One

This is complete school management system that manages all school activities in digital way. The system contains more than 10 subsystems and it is easy to add other functionalities and systems. This system has been used by three schools starting form 2014 up to now without any problem

Users of the System

The system allows seven different users each user has their own secure dashboard system which is separated from other user.

1. Administer
2. Teacher
3. Student
4. Student Parent
5. Accountant
6. Librarian
7. Other users

System Modules

This system has 12 large modules and each modules has many functionalities

1. Student modules
2. Teacher modules
3. Parent modules
4. Finance modules
5. Librarian modules
6. Academic modules
7. Class modules
8. Attendance modules

9. Subject modules
10. Exam modules
11. Finance modules
12. All users management modules
13. Office management modules
14. Website management modules
15. System management module
16. Academic session management modules
17. Online Learning management system

System Add-ons

These are other system that can be integrated with this system based on interest of our customer. Those systems are already developed system that can be added automatically based on request. And also the system can easily upgrade to new functionalities and version based on user request. Currently available add-ons are

- ✓ Human resource management system
- ✓ Smart Documentation system
- ✓ Material and Inventory management system
- ✓ Online learning management system
- ✓ Accounting and finance system
- ✓ Other systems based on request

Admin functionalities of the system

Admin is the user who controls everything of the system. This user can do any others user task.

Student Management

- ✓ Mange students' information
- ✓ Import students' data form excel
- ✓ Admit new students
- ✓ View student mark sheet
- ✓ View student profile
- ✓ Edit student information
- ✓ Generate student ID
- ✓ Delete student information
- ✓ View sections
- ✓ View classes

- ✓ Promote student from one class to other class

User Management

Manage Subdomain

- ✓ Add new subdomain

- ✓ View subdomain information
- ✓ Edit or block subdomain
- ✓ Delete or remove subdomain Manage Teachers
- ✓ View teachers' information
- ✓ Register new teachers
- ✓ Edit teacher information
- ✓ Delete teachers' information

Manage parents

- ✓ View parents' information
- ✓ Add parents' information
- ✓ Edit parent information
- ✓ Delete parent information

Manage Librarian

- ✓ View librarian information
- ✓ Add librarian information
- ✓ Edit librarian information
- ✓ Delete librarian information

Manage Accountant

- ✓ View accountant information
- ✓ Add accountant information
- ✓ Edit accountant information
- ✓ Delete accountant information

Academic Management

Manage classes

- ✓ Add classes like grade 1 grade 2…..
- ✓ View all classes
- ✓ Edit class information
- ✓ Delete class added

Manage class section

- ✓ **View all class section information**
- ✓ Add new section for all class
- ✓ Edit all class section
- ✓ Delete all class section

Subject syllables learning material management

- ✓ Add syllables information
- ✓ Download syllables data
- ✓ Delete syllables data
- ✓ View all class syllables
- ✓ Upload syllables data
- ✓ View teaching materials
- ✓ Add/upload teaching materials
- ✓ Edit teaching materials
- ✓ Delete teaching materials

Manage subjects

- ✓ Manage all class subject information
- ✓ Add subject
- ✓ Edit subject
- ✓ Delete subject

Manage class schedule

- ✓ Add class schedule for all classes
- ✓ View class schedule
- ✓ Print class schedule

Manage attendance

- ✓ Add daily attendance for any class
- ✓ View yearly monthly weekly attendance for any class
- ✓ Prepare attendance report for ant class

Exam and Mark management

- ✓ Add all class exam list like first term second term etc.

- ✓ View all class exams
- ✓ View exam grades
- ✓ add grading scale
- ✓ delete grading scale
- ✓ edit grading scale

Manage marks

- ✓ add marks for any class section or student
- ✓ view marks of any class section
- ✓ edit marks of any class section or student
- ✓ delete marks of any student section or class
- ✓ add mark for each subject for any class section or class
- ✓ view the whole school student tabulation sheet i.t I sheet that shows all students score with all subject like excel sheet
- ✓ add question paper
  manage online exam
- ✓ Create online exam
- ✓ Manage questions
- ✓ Manage exam results of students

Finance Management

- ✓ Create student payment
- ✓ View and manage invoice
- ✓ View payment history for any student
- ✓ Edit payment information
- ✓ Delete payment information
- ✓ Prepare invoice recipe
- ✓ Print invoice receipt

Manage expense

- ✓ Add expense category
- ✓ Delete expense category
- ✓ Edit expense category

- ✓ View expense
- ✓ Edit expense information
- ✓ Delete expense information’

Library Management

- ✓ Add books
- ✓ Edit books information
- ✓ Delete books information
- ✓ Download books information

Transport services Management

- ✓ Add transport service information
- ✓ View students assigned in specific transport services
- ✓ Assign students to services
- ✓ Edit service information
- ✓ Delete service information

Class rooms Management

- ✓ Add class room information
- ✓ Assign class rooms to students
- ✓ Edit class room information
- ✓ Delete class room information

Noticeboard management

- ✓ Add noticeboard
- ✓ Mark noticeboard to archive

- ✓ View noticeboard
- ✓ Print notice board

Manage complain and messages

- ✓ Send message or complain
- ✓ Send response to users

System Management

- ✓ Update system name, logo
- ✓ Update company contact information like address phone, email etc.
- ✓ Change the whole academic session
- ✓ View system analytics

Website Management

- ✓ Manage website notice board
- ✓ Manage events
- ✓ Manage website gallery
- ✓ Update about us info
- ✓ Update terms and privacy policy
- ✓ Update homepage slider
- ✓ Manage contact information
- ✓ Mange all website information

Manage language

- ✓ Mange built-in language translator
- ✓ Add new language
- ✓ Translate language phrases
- ✓ The system supports any language if it translated
- ✓ Currently it has four languages English, Amharic, Affan Oromo, Tigrigna

Account management

- ✓ Edit profile
- ✓ Change login credential

- ✓ logout

Teacher's functionalities

This user is a teacher of the school who is active in the school academic session and allowed by the administer and mainly manage only his section student's information

Manage attendance

- ✓ Add daily attendance for
- ✓ View yearly monthly weekly attendance for his student
- ✓ Prepare attendance report for his student

Manage marks

- ✓ add marks for his student
- ✓ view marks of his class
- ✓ edit marks of his class
- ✓ delete marks his student
- ✓ add mark for each subject for his student
- ✓ add question paper
  manage online exam
- ✓ Create online exam
- ✓ Manage questions

- ✓ Manage exam results of students
  - ✓ view and manage his students only
  - ✓ view teachers
  - ✓ view his assigned subjects
  - ✓ view class schedules
  - ✓ upload study material
  - ✓ upload academic syllables

- ✓ manage attendance
- ✓ view digital library
- ✓ view services route
- ✓ view message
- ✓ send message

Account management

- ✓ Edit profile
- ✓ Change login credential
- ✓ Logout

Student Functionalities

This user is a student of the school who are currently active in school academic session and allowed by administer

- ✓ View even schedules
- ✓ View teachers
- ✓ View his subjects
- ✓ View his section class schedule
- ✓ View his attendance report
- ✓ View download study material
- ✓ View download academic syllables
- ✓ View all semester marks at any time
- ✓ View and take online exam
- ✓ View online exam results
- ✓ View payment receipt and history
- ✓ View library books
- ✓ Download books

- ✓ Order books borrow request to librarian
- ✓ View request status
- ✓ View transport service information
- ✓ View noticeboard
- ✓ Print notice board information
- ✓ Send message or complain to school

Account management

- ✓ Edit profile
- ✓ Change login credential
- ✓ Logout

Parent functionalities

This user is the parent of the student who can view and control children information

- ✓ View teachers
- ✓ View download his student academic syllables
- ✓ View his student class schedule
- ✓ View his student weekly monthly yearly attendance
- ✓ View his student exam marks
- ✓ Print his student mark sheet
- ✓ View his student payment information
- ✓ View library books
- ✓ Download library books
- ✓ View service transport information
- ✓ View notice board
- ✓ Send complain or message to school

Account management

- ✓ Edit profile

- ✓ Change login credential
- ✓ Logout

Librarian functionalities

This user is the library staff and manages library only and borrow books to students and teachers

- ✓ Manage library books
- ✓ View requested books by student or teacher then deliver
- ✓ Accept book orders
- ✓ Reject book orders
- ✓ Edit books information online
- ✓ Delete books form the system

Account management

- ✓ Edit profile
- ✓ Change login credential
- ✓ Logout

Finance officer

- ✓ View paid invoice
- ✓ View unpaid invoice
- ✓ View total income
- ✓ View total expense
- ✓ Create student payment
- ✓ View student payment information
- ✓ View payment history
- ✓ Edit payment information
- ✓ Delete payment information
- ✓ Take payment for any expense
- ✓ Add new expense

- ✓ Edit expense information
- ✓ Delete expense information
- ✓ Add expense category
- ✓ Edit expense category
- ✓ Delete expense category

  Account management
  - ✓ Edit profile
  - ✓ Change login credential
  - ✓ Logout

Website user's functionality

- ✓ Visit website
- ✓ View notice board
- ✓ View events
- ✓ View teacher quality and expanse
- ✓ Contact teachers for tutoring purpose
- ✓ View gallery of school
- ✓ Online registration of students
- ✓ View school information
- ✓ View contact information and Contact school staff.

Mobile application

This application helps students' teacher's librarian administers and parents to do all above tasks easily

All this above are school management system functionalities but the system has add-ons mean that has other systems that can be added based on request. These add-on systems are

- ✓ Human resource management system
- ✓ Smart Documentation system
- ✓ Accounting finance system
- ✓ Property and Inventory management system