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

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What Is the drawback of Managing school system Manually

1 Human Error: there is a higher risk of human error. Mistakes can happen during data entry, calculations, or recordkeeping, which can lead to incorrect information being stored or communicated.

2 Time-consuming: Manual management of school information can be time-consuming. It involves tasks like organizing paperwork, filing documents, and manually updating records. This can take up valuable time that could be better spent on other important tasks.

3 Limited Accessibility: Manual systems may restrict access to information. Physical files and documents can only be accessed by specific individuals physically present in the school premises. This can hinder collaboration and timely access to information for stakeholders such as teachers, administrators, and parents.

4 Lack of Data Security: Storing school information manually can pose security risks. Physical files and documents can be lost, damaged, or stolen. Additionally, unauthorized individuals may gain access to confidential information, compromising student and staff privacy.

5 Inefficiency in Reporting: Generating reports manually can be inefficient and time-consuming. It requires compiling data from various sources, performing calculations, and formatting the report. This can lead to delays in providing timely and accurate information to stakeholders.

6 Difficulty in Data Analysis: Manual systems make it challenging to analyze and extract meaningful insights from the data. Analyzing large volumes of data manually can be cumbersome and prone to errors. Automated systems can provide better data analysis capabilities, enabling schools to make informed decisions based on data-driven insight

7 Limited Storage Space: Physical storage of documents and records can take up a lot of space. As the volume of information increases, schools may face challenges in finding adequate storage space, leading to cluttered and disorganized recordkeeping.

8 **Difficulty in Retrieving Information**: Locating specific information within a manual system can be time-consuming. It often involves searching through physical files and documents, which can be cumbersome and prone to misplacement or misfiling.

9 **Lack of Real-time Updates:** Manual systems may not provide real-time updates and notifications. This can affect timely communication with parents, students, and staff regarding important announcements, schedules, or changes in school policies.

10 **Limited Scalability:** Manual systems may struggle to handle the increasing complexity and volume of information as the school grows. As the number of students, staff, and courses expands, managing all the data manually becomes more challenging and less efficient.

11 **Reduced Collaboration:** Manual systems can hinder collaboration among different departments or stakeholders within the school. Sharing and accessing information becomes more difficult, leading to potential communication gaps and delays in decision-making processes.

12 **Lack of Integration:** Manual systems often operate in silos, making it challenging to integrate different aspects of school management. For example, student records, attendance, grades, and communication may be stored separately, making it harder to get a holistic view of student performance and progress.

13 **Risk of Data Loss:** Physical documents are susceptible to damage from accidents like fires, floods, or natural disasters. If important records are destroyed, it can be challenging or even impossible to recover the information. This can lead to significant data loss and disruptions in school operations.

14 **Inefficient Communication:** Manual systems can result in inefficient communication between different stakeholders in the school community. Coordinating schedules, sending notifications, and sharing updates can be time-consuming and prone to errors. This can lead to miscommunication and confusion

among students, parents, and staff.

15 Difficulty in Tracking Attendance: Tracking attendance manually can be a tedious and error-prone process. It requires taking physical attendance records, manually calculating attendance percentages, and identifying patterns or trends. Automated attendance systems can provide more accurate and efficient tracking, saving time and effort.

16 **Limited Data Analysis:** Manual systems often lack the tools and capabilities for in-depth data analysis. Analyzing trends, identifying areas for improvement, and generating meaningful insights from data can be challenging without the help of automated systems. Data-driven decision-making becomes more difficult, potentially hindering school improvement efforts.

17 Compliance and Reporting Challenges: Manual systems may struggle to meet regulatory compliance requirements and reporting obligations. Schools need to adhere to various legal and educational standards, which often require accurate and timely reporting. Manual processes can lead to errors or delays in meeting these obligations, potentially resulting in penalties or reputational damage.

18 Increased Paper Usage: Manual systems often rely heavily on paper-based documentation, leading to increased paper usage and associated costs. It also contributes to environmental concerns due to the consumption of natural resources and the need for physical storage space.

19 Lack of Centralized Data: Manual systems may result in fragmented data storage and management. Information may be scattered across various departments or individuals, making it challenging to maintain a centralized and comprehensive view of school data.

20 Difficulty in Tracking Student Progress: Manual systems can make it difficult to track and monitor student progress effectively. Tracking grades, assignments, and assessments manually can be time-consuming and error-prone, potentially affecting the accuracy of student evaluations and feedback.

What Is the advantage of using this school system

1 **Streamlined Administrative Tasks:** An SMS automates administrative tasks such as admissions, attendance management, scheduling, and fee management, saving time and reducing manual effort.

2 **Enhanced Communication:** SMS facilitates seamless communication between teachers, students, parents, and administrators through features like messaging, announcements, and notifications.

3 **Efficient Attendance Management:** An SMS allows for easy and accurate attendance tracking, reducing errors and providing real-time attendance reports for students.

4 **Improved Parent-Teacher Collaboration:** SMS enables parents to stay informed about their child's performance, attendance, and upcoming events, fostering better collaboration between parents and teachers.

5 **Centralized Data Management:** An SMS provides a centralized platform for managing student records, attendance, grades, timetables, and other important information, making data easily accessible and organized.

6 **Automated Report Generation:** With an SMS, generating various reports such as progress reports, report cards, and attendance reports becomes quick and effortless, saving time and ensuring accuracy.

7 **Efficient Examination Management:** An SMS simplifies exam management by handling tasks like exam scheduling, seating arrangements, and result processing, reducing administrative burden and ensuring smooth conduct.

8 **Online Learning and Resources:** Many SMS platforms offer integrated learning management features, allowing teachers to upload resources, assignments, and quizzes, facilitating online learning and remote education.

9 **Financial Management**: An SMS streamlines fee collection, tracks financial transactions, generates invoices, and provides financial reports, enabling efficient financial management for the school.

10 **Improved Resource Allocation:** An SMS helps optimize resource allocation by tracking and managing school resources such as textbooks, equipment, and

facilities, ensuring their efficient utilization.

11. **Timetable Management**: SMS simplifies timetable creation and management, taking into account student and teacher availability, subject requirements, and room availability, reducing scheduling conflicts.

12. **Enhanced Security and Data Privacy:** Using an SMS ensures data security and privacy, with role-based access control and secure storage of sensitive information, protecting student and staff data.

13. **Efficient Library Management:** An SMS can automate library operations such as cataloging, issuing and returning books, and tracking overdue books, making library management more efficient.

14. **Streamlined Transportation Management:** An SMS allows for efficient management of school transportation, including route planning, vehicle tracking, and attendance management for students using school transport.

15. **Customizable and Scalable:** Many SMS platforms are customizable to suit the specific needs of the school and can scale as the school grows, accommodating increasing student and staff numbers.

16. **Real-time Updates and Notifications:** SMS provides real-time updates and notifications to parents, teachers, and students, keeping them informed about important events, schedules, and announcements.

17. **Easy Access to Academic Resources:** An SMS can provide a centralized repository of academic resources, study materials, and reference materials, allowing easy access for teachers and students.

18. **Efficient Record Keeping:** SMS automates recordkeeping, including student information, academic records, attendance records, and disciplinary records, making it easy to retrieve and update information when needed.

19. **Streamlined Staff Management:** An SMS simplifies staff management tasks such as payroll management, leave tracking, and performance evaluation, ensuring efficient management of the school's workforce.

20. **Data Analytics and Insights:** An SMS often includes analytics tools that provide valuable insights into student

Our Pricing

Service type	Price in birr	Update	support
Free version	**0 Birr**	**Some updates**	**Unlimited support**
Subscription	**1 birr/month for one student**	**Access all updates and new feature for free**	**unlimited support**
Service buying	**60,000 for lifetime access**	**Need some payment for each update**	**Unlimited support**
Product buying	**300,000 for lifetime**	**Need some payment for each update**	**For three months only**

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

Optional System If schools need online teaching on summer or on emergency Cases

CHAPTER TWO

Online learning management system Overview

1 Functional Of the system

- The system has three group of

Users

- Admins
- Teachers
- Students
- other users

Functionality of admin module

View analytics

- ✓ Number of enrolled users
- ✓ Number of course
- ✓ number users
- ✓ Number of teachers
- ✓ Number of lesson and chapters
- ✓ Active and pending courses

Mange category

- Add semesters or grade or year level
- Edit semesters grade or year level
- Delete semester or grade or year level

- Mange sub category

Manage Course

- View courses
- Add course
- Delete course
- Edit courses

- Active or deactivate courses
  - Add chapter to course
  - Add lesson to course
  - Filter course based on instructor or category or status or price

Manage Chapters and lessons

- Add all course chapters
- Edit all course chapters
- Delete all course chapters
- View all course chapters
- Organize chapters order

Manage Lesson contents

- Add lessons for any course
- Edit or change lessons for any course
- Delete lessons for any course
- Uploads local video files
- Put online video URL

- Embed Vimeo Video
- Embed YouTube video
- Upload image files
- Upload documents like pdf or word or text files

Mange Assignments and Homework and exams

- Upload assignments
- Upload Homework
- Uploads quizzes and workout exams
- Delete edit and change assignments
- Delete edit or change Homework
- Delete edit or changes exams and quizzes

Manage enrollment

- Enroll student
- View enrolled students based on enrolled date

Manage subdomain

- add sub admin
- delete sub admin
- edit sub admin
- assign permission to sub admin

Mange Instructors

- Add teachers
- Edit teachers
- Delete teachers
- View teachers

- View each teacher’s course
- View submitted assignments
- View submitted exams
- Approve assignments

Mange students

a. Register students
b. View students
c. View students enrolled courses
d. Edit student information
e. Delete students’ information

Manage messages

- View messages sent for teachers and students
- Send messages to teachers and students

Mange live class

- Add Zoom class
- Add Google meet class
- Schedule live class
- Change live class
- Cancel scheduled live class

Mange system setting

- Update system information like system name ,description, keyword and slogal

- Update company information like address, phone ,email
- Update company social media links like YouTube Facebook and twitter
- Change language

Manage website settings

- Change website banner title
- Activate and deactivate cookies
- Change about company information
- Update terms and conditions • Update privacy and policy
- Update captcha setting
- Update system all logos and images

Mange student forum

- View and manage students data in the forum
- View forum discussion data
- Add category list to be discussed in forum
- Add forum members even not a student
- Manage forum setting

Manage languages

- add new language translator
- translate all system information to any world human language
- delete languages added
- edit languages phrases

Manage profiles

- change name ,email ,biography, photo
- change password and username

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Function of Teachers Modules

0 View analytics

- View Number of enrolled users for his course
- View Number of course his
- View His course Number of lesson and chapters
- View his Active and pending courses

1 Manage his Own Course only

- View his courses
- Add his course
- Delete his course
- Edit his courses
- Add chapter to his course
- Add lesson to his course

2 Manage Chapters and lessons

- Add chapters to his course
- Edit his course chapters
- Delete his course chapters
- View his course chapters
- Organize his course chapters order

3 Manage Lesson contents

- Add lessons for his course
- Edit or change lessons for his course
- Delete lessons for his course

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- Uploads local video files to his course
- Put online video URL to his course
- Embed Vimeo Video to his course
- Embed YouTube video to his course
- Upload image files to his course
- Upload documents like pdf or word or text files
- send related books for students

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4 Mange Assignments and Homework and exams

a. Upload assignments
b. Upload Homework
c. Uploads quizzes and workout exams
d. Delete edit and change assignments
e. Delete edit or change Homework
f. Delete edit or changes exams and quizzes

5 Manage messages

a. View messages sent for teachers and students
b. Send messages to teachers and students

6 Mange live class

- Add Zoom class
- Add Google meet class
- Schedule live class
- Change live class

7 Forum Management

- Add case study or group work in the forum to be discussed by student

- Answer all student question online in the forum
- Add questions in the forum

8 Manage profiles

- change name ,email ,biography, photo
- change password and username

9 Authentication

- Has login
- Has logout

Function of student modules

1 Learn online

- View all chapters and lessons content only Enrolled course
- View each chapter tutorials video on the system
- Download books given by the teacher
- Read online notes in the system written by teacher

2 View assignments

- Submit assignments

- Take and Submit Homework • Take online exams
- Test himself on online quizzes

3 Live class

- View Live class Notification
- Attend Live class
- Send change request for live class schedule

4 Online discussion with other students or forum

Ask questions to students or teachers Work group work online with other students

View asked other student questions solved problems and answers

5 View his courses list

6 View his course details

7 View all other course details

8 Send message to teachers and admins

9 Search courses

10 Filter courses by category, price rating

11 Give rating for courses

12 Give comments for any courses

13 Mange his profiles

- Change password or username profile picture

14 Authentication

Has login

has logout

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15 View other course information

a. **View each course prices**
b. **View courses category list**
c. **View all available courses list but they can access only they enrolled**
d. **Compare courses price each other**
e. **View courses details**
f. **View course Curriculum**
g. **View courses Number of chapters**
h. **view courses Number of lesson**
i. **View course Requirements**
j. **View Courses Outcomes**
k. **View Course instructor quality**
l. **View Courses rating or like**
m. **View Course feedback**
n. **View contact information**
o. **Can contact directly on WhatsApp or telegram**
p. **Can register online**

Forum Module

Here this modules interact with students teacher and admins this modules has the following functionalities.

- ✓ Admin or teacher add forum category to discussed
- ✓ Admin can edit delete any information in the forum
- ✓ Students can ask or post questions
- ✓ teachers will answer questions
- ✓ other students can comment on every questions
- ✓ teacher can give online group work
- ✓ students work the group work online with other group member
- ✓ Teacher will see student participation online live

- ✓ teacher can ask questions to specific student
- ✓ the student will answer his question
- ✓ students or teacher add any important link on the form

Other users Modules

Other user are users who has not privileges to login

The system uses as website so for any user that has no login credential the can view some information. Without login the can do the following

View other course information

- ✓ **View each course prices**
- ✓ **View courses category list**
- ✓ **View all available courses list but they can access only they enrolled**
- ✓ **Compare courses price each other**
- ✓ **View courses details**
- ✓ **View course Curriculum**
- ✓ **View courses Number of chapters**
- ✓ **view courses Number of lesson**
- ✓ **View course Requirements**
- ✓ **View Courses Outcomes**
- ✓ **View Course instructor quality**
- ✓ **View Courses rating or like**
- ✓ **View Course feedback**
- ✓ **View contact information**
- ✓ **Can contact directly on WhatsApp or telegram**
- ✓ **Can register online**

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