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Student Goal Tracker (Orbit)

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Abstract: Students today manage multiple responsibilities, including academic coursework, examinations, projects, skill development, health, and extracurricular activities. However, many students face difficulties in setting clear goals, organizing tasks, monitoring progress, and maintaining consistency. Traditional methods such as notebooks, calendars, and separate applications may not provide an integrated view of a student's overall development. To address these challenges, this paper proposes a Student Goal Tracker, a centralized digital platform designed to help students set, organize, monitor, and achieve academic and personal goals. The proposed system allows students to create goals under categories such as academics, skills, health, and extracurricular activities. Each goal can be divided into smaller tasks with deadlines, schedules, and reminders. The system tracks task completion and displays progress using percentages, progress bars, milestones, and charts. Motivational features such as badges, achievements, and consistency tracking are included to encourage students to remain engaged with their goals. The methodology involves identifying student requirements, analyzing existing goal-management practices, designing the proposed system, implementing its core features, and evaluating its effectiveness through user feedback and measurable performance indicators. Evaluation focuses on factors such as goal completion rate, task consistency, time-management effectiveness, and user satisfaction. By integrating goal setting, task management, reminders, progress monitoring, and motivation into a single platform, the proposed system provides a structured approach to student development. The expected outcomes include improved goal completion, better time management, increased self-discipline, and balanced academic and personal growth.

Keywords: Student Goal Tracker, Goal Setting, Academic Progress, Task Management, Progress Monitoring, Time Management, Study Planner, Performance Analysis, Target Achievement, Productivity.

I. INTRODUCTION

The Student Goal Tracker is an application designed to help students set, organize, manage, and achieve their academic and personal goals effectively. In today's educational environment, students need to complete assignments, prepare for examinations, attend classes, and develop new skills. Managing all these activities can be difficult without proper planning. The Student Goal Tracker provides a systematic way to organize daily activities, monitor progress, and improve productivity.[1]

The main purpose of the Student Goal Tracker is to encourage students to develop effective study habits and achieve their targets within a specified period. It helps students identify their objectives and create a clear plan to accomplish them. By setting realistic goals, students can concentrate on important activities and use their time effectively. The application also motivates students to remain consistent and responsible in completing their academic tasks.[2]

Goal setting is an important part of student life because it provides direction and motivation. The Student Goal Tracker allows students to create short-term and long-term goals based on their interests and requirements. Short-term goals may include completing assignments, revising lessons, or preparing for weekly tests. Long-term goals may include achieving good academic results, completing a course, or learning a new skill. Dividing large objectives into smaller tasks makes them easier to manage and achieve.[2]

Task management is one of the major features of the Student Goal Tracker. Students can add tasks, update their details, set priorities, and mark them as completed. They can organize their work according to importance and deadlines. This feature helps students maintain a clear record of their responsibilities and reduces the

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possibility of forgetting important activities. Proper task management also helps students balance academic work with other daily activities.[4]

Time management plays a significant role in academic success. Many students experience difficulties completing their work on time because of poor planning and procrastination. The Student Goal Tracker helps students schedule activities and assign deadlines to their goals. By following a planned schedule, students can distribute their workload effectively and avoid last-minute preparation. This process encourages discipline, punctuality, and better use of available time.[3]

Progress monitoring enables students to understand how much of their planned work has been completed. The Student Goal Tracker allows students to update the status of their goals and review their achievements. It can display completed goals, pending tasks, and overall progress through a dashboard or progress indicators. This information helps students identify areas that require more attention and make necessary changes to their study plans.[3]

Reminders and notifications are useful features that help students remember important tasks and upcoming deadlines. The application can notify students about pending assignments, scheduled activities, and approaching target dates. These reminders encourage students to complete their work on time and maintain a regular study routine. By reducing missed deadlines and forgotten tasks, the application supports a more organized and productive learning experience.[4]

The Student Goal Tracker can be developed using different programming languages and technologies according to project requirements. Java can be used to implement application logic and create a user interface, while MySQL can store student information, goals, deadlines, and progress records. For a web-based application, HTML, CSS, and JavaScript can be used to create an interactive interface. Suitable technologies help make the application reliable, user-friendly, and easy to maintain.[2]

The Student Goal Tracker offers several benefits, including improved organization, better time management, increased motivation, and effective progress tracking. It encourages students to take responsibility for their learning and evaluate their performance regularly. Students can recognize their achievements, identify difficulties, and work toward continuous improvement. The application is useful for school and college students who want to manage their academic responsibilities and personal development goals in one place.[4]

In conclusion, the Student Goal Tracker is a useful application that supports students in planning their activities and achieving their goals systematically. It combines goal setting, task management, deadline scheduling, reminders, and progress monitoring to provide an organized approach to student life. By using this application, students can develop discipline, consistency, responsibility, and productivity. The project aims to make academic planning easier and encourage students to work confidently toward their educational objectives and future career aspirations.[2]

Literature Review:

The literature review of the Student Goal Tracker focuses on existing systems, research, and technologies related to goal setting, task management, time management, and academic progress monitoring. It helps identify the importance of developing an application that supports students in planning their activities and achieving their academic objectives efficiently.

Several existing approaches help students manage their academic activities. Traditional methods, such as maintaining diaries, notebooks, and handwritten timetables, are commonly used to record assignments and study schedules. However, these methods may be difficult to update and do not provide automatic reminders or progress reports. Therefore, digital solutions can offer a more convenient and organized way to manage student goals.

Digital task management applications provide features such as task creation, deadline setting, reminders, and task completion tracking. These features help users organize their responsibilities and prioritize important activities. However, general task management applications may not specifically address students' academic requirements, such as tracking study targets, examination preparation, and learning progress.

Goal-setting approaches emphasize defining clear objectives, establishing achievable targets, and reviewing progress regularly.

Progress monitoring systems also play an important role in educational development. Dashboards, progress indicators, and performance reports can help students understand their achievements and identify pending tasks. Such features encourage self-evaluation and help students modify their plans when necessary.

Modern technologies, including Java, HTML, CSS, JavaScript, and database management systems such as MySQL, can be used to develop student-oriented tracking applications. These technologies support data storage, user interaction, and efficient information management.

In conclusion, existing approaches provide useful features for task organization and goal management, but a dedicated Student Goal Tracker can combine these functions into one platform. The proposed system aims to simplify academic planning, improve time management, monitor progress, and encourage students to achieve their educational goals systematically.

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Problem Statement :

In the present educational environment, students are expected to manage various academic and personal responsibilities. These responsibilities include attending classes, completing assignments, preparing for examinations, participating in projects, learning new skills, and planning for future careers. Managing all these activities requires proper organization, effective time management, and continuous effort. However, many students find it difficult to maintain a regular schedule and achieve their goals within the expected time. Without a proper tracking system, students may forget important tasks, delay their work, lose motivation, and struggle to maintain consistency in their studies. Therefore, developing an efficient Student Goal Tracker is necessary to address these challenges.

One of the major problems faced by students is the lack of proper goal planning. Many students have clear ambitions, such as achieving good marks, completing assignments on time, improving their subject knowledge, or learning technical skills. However, they may not know how to convert these ambitions into practical and achievable steps. When goals are not clearly defined, students may become confused about what they need to do first and how much time they should spend on each activity. The Student Goal Tracker can help students define their objectives, divide them into smaller tasks, and establish deadlines for completing each activity.

Another significant problem is the use of traditional methods for maintaining academic records. Students often depend on notebooks, diaries, paper schedules, and handwritten lists to record their goals and daily activities. Although these methods are simple, they require regular manual updates and may become difficult to manage when the number of tasks increases. Important information can be overlooked, and students may find it challenging to identify completed and pending activities. A digital tracking system can store all goal-related information in one place, making it easier to access, update, and organize.

Time management is also an important issue in student life. Students sometimes spend too much time on less important activities and postpone tasks that require immediate attention. This can result in incomplete assignments, rushed examination preparation, and unnecessary academic pressure. Without proper scheduling and prioritization, students may find it difficult to balance different responsibilities. The proposed Student Goal Tracker can help students assign deadlines, organize tasks according to priority, and follow a planned schedule. This can encourage students to use their available time more effectively.

Furthermore, students may experience difficulties in monitoring their academic progress. Setting a goal is only the first step; regularly checking progress is equally important. Without a tracking mechanism, students may not know whether they are moving toward their objectives at the expected pace. They may continue following ineffective study methods without identifying the need for improvement. The Student Goal Tracker can provide progress indicators, task completion records, and summary reports that help students evaluate their performance and make necessary adjustments to their plans.

Another problem is the lack of regular reminders and motivation. Students may forget upcoming deadlines or postpone important activities because of competing responsibilities. A system that provides reminders for pending tasks and approaching deadlines can help students remain aware of their responsibilities. Recording completed goals can also give students a sense of achievement and encourage them to continue working toward their targets. However, students must regularly update their information to ensure that the displayed progress remains accurate.

The proposed application aims to provide a centralized and user-friendly platform for managing academic and personal goals. It can include features such as student registration, secure login, goal creation, task scheduling, deadline management, progress tracking, and goal completion status. Depending on the project requirements, the application may also include graphical dashboards, notifications, and performance summaries. These features can make goal management more convenient and reduce the effort required to maintain separate records.

In conclusion, the main problem addressed by the Student Goal Tracker is the difficulty students face in planning, organizing, and monitoring their academic activities using traditional methods. Poor time management, unclear objectives, missed deadlines, and limited progress monitoring can prevent students from achieving their targets efficiently.

II. SYSTEM ARCHITECTURE

The system architecture of the Student Goal Tracker describes the overall structure of the application and explains how its different components work together. It defines how users interact with the system, how information is processed, and how student goals and progress records are stored. The architecture is designed to make the application simple, reliable, user-friendly, and easy to maintain. It consists of different layers that perform specific functions to support effective goal management [1,2].

The user layer represents the students who interact with the Student Goal Tracker application. Students can register, log in, create goals, add tasks, set deadlines, and monitor their progress. They can also update goal details and mark tasks as completed. The system provides a convenient way for students to organize their academic and personal activities in one place. An administrator can also be included to manage users if required by the project [3].

The presentation layer is the user interface of the application. It allows students to interact with the system through forms, menus, buttons, and dashboards. Students can enter their goal details, view pending tasks, check deadlines, and monitor their achievements. The dashboard can display completed goals, pending tasks, and overall progress in an understandable format. A well-designed presentation layer makes the application easy to use and helps students access important information quickly [4].

The business logic layer is responsible for processing user requests and implementing the main functions of the application. It includes modules for user authentication, goal management, task management, deadline management, progress tracking, and report generation. When a student creates or updates a goal, this layer validates the information and applies the required rules. It also calculates progress based on task completion and prepares the information that needs to be displayed to the user [5].

The data access layer connects the application logic with the database. It manages the operations required to store, retrieve, update, and delete student information. These operations are commonly known as CRUD operations. For example, when a student adds a new goal, the data access layer stores the goal details in the database. When the student views existing goals, it retrieves the relevant records and sends them to the application layer for processing [4].

The database layer stores all the important information used by the Student Goal Tracker. It may contain student details, login information, goal descriptions, task records, deadlines, completion statuses, and progress information. MySQL can be used as the database management system for storing and organizing these records. Proper database design helps maintain data consistency and allows students to access their information whenever required. Security measures should also be implemented to protect student information.

The different layers communicate with one another to complete user requests. First, the student enters information through the presentation layer. The

business logic layer processes the request, and the data access layer communicates with the database to save or retrieve the required information. The database returns the relevant records, which are processed and displayed through the user interface. Optional notification services can also remind students about upcoming deadlines and pending tasks [5].

The overall operation can be represented as:

Student → Login/Register → Dashboard → Create Goals → Set Tasks and Deadlines → Store Data in Database → Track Progress → Generate Reports → Achieve Goals

The overall operation of the Student Goal Tracker can be represented as a systematic process that begins with student registration and login and continues through goal creation, task management, progress tracking, and goal achievement. First, the student logs in to the application and accesses the dashboard. The student then creates academic or personal goals, adds tasks, and sets deadlines for completing them. The system stores the entered information in the database for future reference. As students complete their tasks, they update the task status, and the system monitors their progress. It can also provide reminders for upcoming deadlines and generate progress reports to help students understand their achievements. Finally, students can review their progress, identify pending tasks, and make necessary improvements to their plans to achieve their goals efficiently.

III. METHODOLOGY

The first step in developing the Student Goal Tracker is to identify the requirements of the system. The main objective is to help students create goals, manage tasks, set deadlines, and monitor their progress. The system requirements include a user-friendly interface, secure login, goal management, task tracking, and progress reports [1,2].

In this phase, the overall structure of the application is designed. The system is divided into different components, including the user interface, application logic, and database. The design explains how students interact with the application and how information flows between its components. A simple and clear design makes the system easy to understand and use.

The application provides a registration and login facility for students. New users can create an account, while existing users can log in using their credentials. Authentication helps ensure that students access their own goal information. Appropriate security measures are required to protect user data [3].

After logging in, students can create academic and personal goals according to their requirements. They can enter goal descriptions, select target dates, and organize goals based on their priorities. Students can also add, edit, view, or delete goals whenever necessary. This feature helps students maintain an organized record of their objectives [4].

Each goal can be divided into smaller tasks to make it easier to achieve. Students can assign deadlines and prioritize tasks according to their importance. The system helps students organize their daily activities and plan their work effectively. Optional reminders can notify students about upcoming deadlines and pending tasks.

The application stores student details, goals, tasks, deadlines, and progress information in a database. MySQL can be used to maintain these records in an organized manner. The database allows the application to retrieve and update information whenever required. Proper validation and security measures help maintain data accuracy and confidentiality [4].

The system monitors the completion status of tasks and displays the student's progress. Students can identify completed goals, pending tasks, and activities that require additional attention. Progress indicators and summary reports help students evaluate their performance and make changes to their plans when needed.

The final stage involves testing the application to ensure that all features work correctly. Testing includes checking registration, login, goal creation, task updates, database operations, and progress tracking. Any errors identified during testing are corrected before implementation. The completed application provides students with a convenient way to manage their goals and improve their time management and productivity.

When a safety-related event is detected, the system generates an appropriate notification. Alerts may be generated for:

- **Upcoming Deadlines**

  Notifications are sent when the due date of an assignment or goal is approaching.

- **Pending Tasks**

  Alerts remind students about incomplete tasks that require attention.

- **Missed Deadlines**

  Notifications inform students when a task has passed its due date without completion.

- **Goal Completion**

  A notification is displayed when a student successfully completes a goal.

- **Progress Updates**

  Alerts provide updates about the progress made toward achieving a goal.

- **Study Schedule Reminders**

  Notifications remind students about planned study sessions and scheduled activities.

- **Priority Tasks**

  Alerts highlight important tasks that need to be completed first.

IV. WEEKLY PROGRESS REPORTS

Notifications inform students when their weekly progress summary is available.

The methodology of the Student Goal Tracker follows a systematic development process, beginning with requirement analysis and ending with testing and implementation. Each stage contributes to developing a reliable and user-friendly application that supports goal setting, task management, and progress monitoring. The proposed system helps students organize their academic activities and work toward their targets efficiently [5].

V. IMPLEMENTATION

The implementation phase of the Student Goal Tracker involves converting the system design into a working application. The main objective of this phase is to develop a user-friendly platform that enables students to create goals, manage tasks, set deadlines, and monitor their progress effectively. The application is developed by integrating the user interface, application logic, and database components [1,2].

The user interface is designed to provide simple and easy navigation. It includes registration and login pages, a dashboard, goal creation forms, task lists, and progress displays. Students can access different features through menus and buttons without difficulty.

The authentication module allows students to register and log in using their credentials. The system validates the entered information before granting access. Appropriate security measures are used to protect student accounts and personal information [3].

This module allows students to create, view, update, and delete their goals. Students can enter goal descriptions, select target dates, and organize goals according to their priorities. The system maintains the goal information for future reference [4].

Students can divide their goals into smaller tasks and assign deadlines to each task. The application displays pending and completed activities. Reminder functionality can be implemented to notify students about approaching deadlines and unfinished tasks.

A database such as MySQL can be used to store student details, goals, tasks, deadlines, and completion statuses. The application communicates with the database to insert, retrieve, update, and delete records. This helps maintain organized and consistent information [4].

The progress tracking module calculates the completion status of goals based on recorded task information. The dashboard can display completed goals, pending tasks, and overall progress. Reports help students review their achievements and identify activities that require additional attention.

After development, the application is tested to verify that registration, login, goal management, database operations, and progress tracking work correctly. Errors are identified and corrected before deployment. The application can then be made available to students for regular use [5].

The implementation of the Student Goal Tracker combines goal management, task scheduling, database storage, and progress monitoring into a single application. It provides students with an organized way to manage their academic responsibilities, improve

time management, and work toward achieving their goals efficiently.

VII. RESULTS AND DISCUSSION

The Student Goal Tracker is designed to provide an efficient and organized way for students to manage their academic and personal goals. The system brings important features such as goal creation, task management, deadline setting, progress monitoring, and report generation into a single platform. It helps students maintain a clear record of their activities and work toward achieving their objectives systematically [4].

The application provides a simple interface through which students can register, log in, and access their personal dashboard. The dashboard displays relevant information about goals, pending tasks, completed activities, and overall progress. This organized presentation helps students understand their current status and identify the activities that require attention.

The goal management feature allows students to create new goals, enter descriptions, assign target dates, and update existing information. Students can divide larger objectives into smaller tasks, making their work easier to plan and complete. This approach helps students organize their academic responsibilities and maintain a structured study routine.

The task management feature enables students to maintain a list of activities associated with their goals. Each task can be assigned a deadline and a completion status. Students can update the status as they complete their work, allowing the system to maintain current progress information. This feature reduces dependence on handwritten records and makes task management more convenient [4].

The progress tracking feature helps students monitor their achievements over time. The system can display the number of completed goals, pending tasks, and progress toward individual objectives. These details provide a clear understanding of the student's activities and help identify goals that require additional effort.

The notification feature can remind students about approaching deadlines and unfinished tasks. These reminders help students remain aware of their responsibilities and plan their activities accordingly. Progress reports can also summarize completed and pending work, making it easier for students to review their achievements[4].

The Student Goal Tracker demonstrates how a digital application can support students in managing their academic activities more effectively. By combining goal setting, task scheduling, and progress monitoring, the system provides a structured method for organizing responsibilities. Students can access their goal information in one place instead of maintaining multiple notebooks or separate records.

One of the main advantages of the proposed system is improved time management. Students can prioritize their activities, set deadlines, and divide large tasks into smaller steps. This can help them plan their schedules more effectively and reduce the likelihood of delaying important work. However, the effectiveness of the system also depends on students updating their tasks regularly and following their planned schedules.

Another important advantage is increased awareness of personal progress. Students can review completed activities and identify pending tasks. This information supports self-evaluation and helps them make necessary adjustments to their goals. Regular progress reviews can also encourage students to remain consistent and responsible [5].

The application can be useful for school students, college students, and other learners who need to organize their academic or personal objectives. Its features can be adapted to different requirements, making it suitable for various learning environments. A simple interface can further improve accessibility and encourage regular use.

Despite its advantages, the system may have certain limitations. Incorrect information entered by users can affect progress reports, while missed updates may result in inaccurate task statuses. Additional features such as automated reminders may require suitable notification services. Security, data backup, and reliable database management are also important considerations during implementation [5].

1. Advantages And Limitations

Advantages:

- **Easy Goal Setting:**
  The system allows students to create and organize their academic and personal goals in a simple and structured manner [3].
- **Effective Time Management**:

It helps students schedule their activities, set deadlines, and complete tasks within the planned time[4].

- **Progress Tracking:**
  Students can monitor completed goals, identify pending tasks, and understand their progress toward achieving their targets.
- **Task Management**:
  The application allows students to add, update, and organize tasks according to their priorities and requirements.
- **Deadline Reminders:**
  Notifications can remind students about upcoming deadlines and unfinished activities, reducing the chances of forgetting important tasks.
- **Improved Productivity:**
  By organizing activities in one place, the system helps students remain focused and use their available time effectively.
- **Increased Motivation:**
  Tracking achievements encourages students to maintain consistency and work toward their academic objectives.
- **Easy Access to Information:**

Students can view and update their goal details whenever required without maintaining multiple handwritten records [1,2].

Limitations:

- **Internet Dependency:**
  Web-based versions may require a stable internet connection to access and update information.
- **Manual Data Entry:**
  Students need to enter their goals, deadlines, and task completion details correctly to maintain accurate records.
- **Technical Problems:**
  Software errors, server issues, or database failures may temporarily affect the application's functionality.
- **Data Security:**

  Student information must be protected through proper authentication and security measures to prevent unauthorized access.
- **Notification Issues:**

  Reminders may occasionally fail because of device settings, network problems, or notification service failures.
- **User Dependency**:

  The effectiveness of the system depends on students using it regularly and updating their progress.
- **Limited Features:**

  A basic version may not provide advanced features such as personalized recommendations, detailed analytics, or calendar integration [1,2].
- **Maintenance Requirements:**

  The application requires regular testing, updates, and database maintenance to ensure reliable performance.

2. Future Scope:

The Student Goal Tracker is a useful application designed to help students plan their goals, manage their daily activities, monitor their progress, and achieve their academic targets. Although the current system provides basic goal-setting and progress-tracking facilities, it can be improved in the future by adding advanced features and modern technologies. These improvements can make the application more efficient, user-friendly, and beneficial for students.

In the future, the Student Goal Tracker can be developed as a mobile application for Android and iOS devices. This will allow students to access their goals, update completed tasks, and check their progress at any time and from any location. A mobile application can make the system more convenient and accessible for students who prefer using smartphones for their daily activities.

Artificial intelligence can also be integrated into the system to provide personalized suggestions. Based on a student's goals, completed tasks, and progress, the application could recommend suitable study schedules and task priorities. It could help students divide large goals into smaller, manageable tasks and suggest improvements when they fall behind their planned schedule[4].

Another important future enhancement is an advanced notification and reminder system. The application can send notifications about upcoming examinations,

assignment deadlines, project submissions, and incomplete tasks. These reminders can help students stay organized and reduce the chances of forgetting important academic activities.

The system can also include graphical reports and data analysis features. Charts, progress bars, and weekly or monthly reports can help students understand how much progress they have made. Students can compare their planned activities with completed tasks, identify areas that need improvement, and make better decisions about their study schedules [1,2].

Cloud storage can be introduced to store student information securely and provide access across multiple devices. With appropriate security measures, students could access their goals and progress records without depending on a single device. Regular backups could also help prevent the loss of important information.

In addition, the system can be integrated with digital calendars and online learning platforms. This integration could help students organize examination dates, class schedules, assignments, and study sessions in one place. It would reduce the need to use multiple applications for managing academic activities.

The Student Goal Tracker may also include features for teachers and parents. With suitable permission and privacy controls, teachers could monitor students' academic goals and provide guidance when required. Parents could encourage students to maintain consistent study habits and complete their planned activities. Such features should be designed to respect students' privacy and independence.

Another possible improvement is a reward and achievement system. Students could receive virtual badges or achievement certificates when they complete goals or maintain consistent progress. These features may encourage students to remain motivated and develop positive study habits without creating unnecessary pressure.

The application can also be improved by adding multilingual support, accessibility options, and customizable dashboards. Students could select their preferred language, adjust the interface according to their needs, and organize their goals based on personal priorities. These features would make the system more inclusive and easier to use.

Finally, future development can focus on improving system security, performance, reliability, and data protection. Secure authentication, appropriate access controls, and regular software updates can help protect student information. The system can also be tested on different devices to ensure smooth operation and compatibility.

VII. CONCLUSION

The Student Goal Tracker is a useful and effective application developed to help students plan their goals, manage their tasks, monitor their progress, and achieve their academic and personal objectives. The main purpose of this system is to improve students' time management, organization, productivity, and goal-setting abilities. It provides a systematic way to record goals, set deadlines, organize tasks, and track completed activities.

The system helps students divide their goals into smaller tasks and complete them within a planned period. By monitoring their progress regularly, students can identify pending tasks, understand their performance, and make necessary improvements to their study plans. Reminders and progress reports can also help students stay focused, maintain consistency, and avoid forgetting important activities.

The Student Goal Tracker reduces the difficulty of managing goals manually by keeping important information organized in one place. It encourages students to take responsibility for their learning, develop discipline, and use their time effectively. The application can be useful for managing academic assignments, examination preparation, project work, personal development, and other daily activities.

Although the system provides several benefits, its effectiveness depends on regular use and accurate updates from students. Future improvements, such as mobile application support, artificial intelligence, advanced notifications, graphical reports, and cloud storage, can make the system more convenient and powerful.

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