

- **Creation of admin specific to a school** (eg: if students from St Mary's ICSE Bangalore are registering then the teacher admin level of that school can only add/edit with the students of that particular school or as permissions are provided)
- Admin levels
 - Super Admin – CBM – Owner
 - Sub Admin – Institute (Management) different for every school
 - Teacher Admin – Same as Institute just limited to class or as permissions provided
- At admin levels we would like to assign options to Sub admin and teachers to send notification but Super admin to decide who gets that permission at time of making account.
- Notifications for super admin is open to send to all but for the schools limited only to the institute level
- **Teacher level sub-admin, where they can – to be kept as an on/off feature as we would like to provide it to the school only if the premium package has been chosen**
 - Create/add and edit a reading class eg. Reading Class 5A
 - Create/add and edit students to the class from SCHOOL LOT (All codes of a particular school)
 - Also create reading groups – Strong reader, weak readers etc
 - Check individual users profile on click of that student
 - Assign Books with Calendar functionality to individual, groups and class of students
 - Create Reading Programs for the students, day wise, week wise or month wise
 - View the analytics and reports of all students in one place with drill-down graphically functionality as the offline version has
 - Monthly reports to be sent to the parents, we could provide the teacher with the option of mailing the Library Report with a button to mail to an individual or group or school, along with the option to extract reports in Excel, CSV or PDF
 - Send in app notifications
- CBM & Sub Admin (if allowed by CBM) should be able to generate online drill down reports with on-click graphs in printable format (table formats can be used as reference), for the following
 - (Data can be also bifurcated day, week , month and range wise)
 - Institute wise reports
 - Class wise reports
 - Division Wise reports
 - Student wise reports
 - Book wise reports
 - Activity Scores reports
- **Key matrix for the reports:**
 - Total Hours read – break down to Day, week and monthly
 - Books read – Category / Genres - Section and Book Name with session time & % of book read
 - Login in and log out time – session time
 - Activity tracking – on click event along website (Books clicked on etc)
- Student side to have the option to browse through books
- **Like every LMS type system, students can:**
 - Browse through books, purchase and read
 - Logins by default would have 1 year validity but in case of B2B (access code) sales it would be valid depending on the code validity with end date and increment years as explained ahead under ACCESS CODE.
 - Users (including freemium and B2C purchases) by default would be either categorized under the "Default E-library Category", while in case of B2B (access codes) they would be assigned to a certain school as defined by the code
 - Enroll in the reading programs
 - B2B users Calendar with Notifications that will notify them the books they have to read, the start-date/book assigned date of reading and the end-date/book return date of reading
 - B2C and organic User can add book to calendar with the reminder functionality for books to read
 - User to have a My profile option with functions/ menus like

- My Library (here the books that have been added to favourites)
 - My Wishlist (books wanting to buy in the future)
 - History & Analytics (all analytics with history)
 - My Mailbox – Notifications, assignments and new books, articles or any reading content added across school (B2B) / Book (B2C)
- Students to have a notification center mailbox where whatever books are assigned are shown and the homework, instructions, assignments given
- **Book CMS**
 - Main page to have categories with sub menus
 - Categories can be genres, reading levels and reading programs
 - Detailed book management system where :
 - Option to create packages, themes, reading programs
 - Tagging books based on the filters of genre, class, and reading programs
 - ~~Providing an basic activity generating software: where we can create activities for the books which would be used in calculation of the scores. The activity types can be shared by the Developer and we will confirm the same should include objective as well as subjective question types, along with the option to upload & print worksheets. The test should give a report at the end with results and point the right and wrong.~~

Activity Provision to store scores for each book.

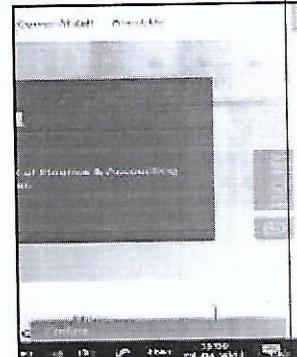
 - Provide badges for achievements received, the achievements which would be defined by us.
 - Also, allot points for every book read, which we would be able to in phase 2 create a marketplace to claim the said points for some real items or products. The points per book can be defined in the book management system so that the calculations can be automatic and editable at any time.
- **Book Look and feel and file formats**
 - Developer to confirm on existing file formats are usable – All browsers and operating systems normally used
 - Create a solution for books to be compatible on all platforms and browsers
 - Provide solution to run existing books (Samples attached)
 - Provide a look and feel of how the book would look from thumbnail to on-click event and reading
 - Uploading would be done BY CBM
 - Books come with built in animation and sound
 - Providing various other info on Front UI and in database like:
 - Book Thumbnail to be shown on main screen
 - On clicking of a certain book with following details on the side
 - Availability
 - Price
 - Summary
 - Author – On click a page to talk About Author – with other books by author
 - Published Date (Optional to show)
 - Story Type
 - If user is logged in then activate options as shown above with :
 - Read to me
 - Attaching activities
 - ~~Marketplace for users. Standard system of ecommerce like add to cart, add to wishlist, checkout process, payment packages, promo codes and schemes based on the packages and payment schemes which could be 3, and 12 & 24 months as the user decides. Require developers input on input.~~
 - ~~ROYALTY & ADVERTISING. It should act as a platform where writers would like to advertise the books and depending on the deal CBM will take or get royalty. Dashboard to access to check their book analytics, billing, and purchases handle clicks, usage and auto billing. Billing based on the formula of First time click by a user click / purchased * mrp * royalty % or as decided at time of development (to be quoted separately while sharing final quote)~~

We are hoping to get famous publishers on the website, these said publishers or famous authors provide content on two conditions in the school environment. Online Purchase of book where they get a royalty for every purchase.

We would like to also consider the option of providing the said book in a package format, but we are not able to visualize how the calculation for the same can be shown as the number of students accessing could be random, let us know if you could suggest an efficient system for the same.

- **SEO & Google Analytics:** We would like google analytics tags put in the code. Tags will be provided by us. Development team to just put the tags at time of coding
- B2B Site: provision to provide school name and logo somewhere when using site through access codes for each school.
- **MAIN UI**
 - Menus and sub menus
 - Login and Sign up
 - **DEVELOPER TO PROVIDE WITH THEMES TO SELECT FROM. IMPLIED ASSUMPTION THAT MOST OF THE STANDARD ECOMMERCE TABS IN THE LOWER BOTTOM WOULD BE INCLUDED LIKE ABOUT US, CONTACT US, CAREERS, PRIVACY POLICY ETC**
 - Also confirming that we have implied that we would have the option to add more genres and categories in the menu, on later dates with sub-menus.
 - **Banners and tickers: Before and after login banner and top ticker to stay**
 - **Option to add a small side button as shown in images below- Functionality to be defined later but mainly for contact us or student info like word of the day etc**
 - Adding free chat bot twak.to and whatsapp button before login.
- Reference sites :
 - <https://www.getepic.com/> - For UI, Teacher management system, and reporting
 - <https://storyweaver.org.in> – look and feel, theme based packages
 - <https://www.magzter.com/> - Ecommerce side look specifically keeping B2C users
 - Princess.disney.com -
- Login system:
 - Login / Sign Up button: Either through Email/mobile number, social media login (facebook / google), password and verification through mail or OTP, both options to be displayed. Provision to attach help link which could lead to a separate video or page displaying the steps
 - School Code – Refer Access Code part. Provide provision to attach help link which could lead to a separate video or page displaying the steps
- CMS (SUPER ADMIN Panel) : developer to suggest the platform but should have all basic admin features and to suggest all other options beyond what we have shown here
 - User Account with options to change account details, packages taken, Trial user, paid user, option to pause account , date of joining and valid through etc
 - Orders
 - Book management system
 - Student management system

And all other options as applicable



- Access Code System:**

This system is used when a full school needs to be registered to a certain reading program. Under this program we would pre-define what the student would be having access to depending on the deal done with the school.

The system would work at the time of LOGIN on the first page where the user would have to click the option of JOIN INSTITUTE.

The codes would be pre-made by CBM through the CMS.

Steps for creating the code:

Step 1: Ask school for data in excel sheet (.csv file). The data requested would be as per the column shared in the "School Details Column":

School Details				
School Name	Class	Division	Roll No	Pa ck age
St Marys		3 A	3	

Step 2: Once the school has sent this information in the shared CSV format, from the backend side we would put the further required information that is shown in the image below:

School Details				Package Details		
School Name	Class	Division	Roll No	Package Assigned (A pre-defined Package ID or something of that sort defined from the CMS)	End End (This defines the end date or the cut off date of the current years course and acts as the start of the next grades course) - This is the course cut off date for that particular academic session	Increment years (Here when we put the years, it will automatically upgrade the students dashboard after the completion of)
St Marys	3 A	3		120	30th April 2022	2

What does this mean : That a student of this school of Class 1 will get access to the package of 120 (whatever books are assigned in this package). The column of end Date acts as a cu

What is the End Date and Increment year imply and supposed to do:

Lets take an example

A student of St Mary's School (Check would have to be there so that no two schools have same school codes) of Class 1 will get access to the package of 120 (whatever books are assigned in this package) from the date of applying the code generated at the time of registration.

END DATE

The column of end Date acts as a cut off for that student and the course i.e here course number 120.

If the increment year is blank or 0 then at the end of 30th April 2022 the student will become like every Trial User.

INCREMENT YEAR

If increment year is 1 or more then in that case the students' package would change the next day after the END DATE, and the next year's Class package is assigned to that student automatically and his dashboard would reflect the same. The records of the previous year are available in the backend (School needs to keep atleast 3 years records, so developer to suggest a cost effective method for keeping data without increasing server load and server space &/or speed), but on the student side there is a fresh new dashboard.

It also implies that the student's same login is valid for 3 years which in this example would be till 30th April 2024, and till then each year he will be automatically assigned the content applicable for that academic year

Step 3: Unique Code Creation by the application.

Once the CSV file is uploaded in the system, it registers the data and provides a Unique code for each entry which would be a combination of the School Name, Class, Division and Roll No and two/three random letters which can be printed and shared with the school.

School Details				Package Assigned (A predefined Package ID or something of that sort defined from the CMS).	Package Details	Code Output
School Name	Class	Division	Roll No	End End (This defines the end date of the cut off date of the current years course and acts as the start of the next grade course) - This is the course cut off date for that particular academic session	Increment years (Here when we put the years, it will automatically upgrade the students dashboard after the completion of)	The automated code that is generated by the application and can now be shared to the institute and CAN BE USED ONLY ONCE BY THE STUDENT
St. Marys	3 A	2		120 30th April 2022		Z SAMS1A1YK
St. Marys	3 B	21		120 30th April 2022		Z SAMS2B1YKZ

The **CODES CAN BE USED ONLY ONCE** at the time of registration and the code would be counted as used only after the students' details are captured and verified like a two step verification process.

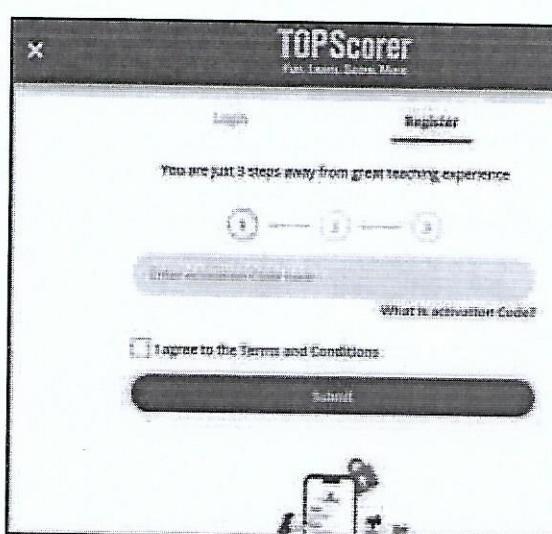
TWO STEP VERIFICATION:

The main page will option called Join Institute. On clicking we would have the similar system.

Step 1 : the child will put the code given with clicking on terms and condition.

Step 2: capturing the student details – Name / Email &/or Mobile which will be used for login. By default as soon as the code is been put in, below in Step 2 it would display the school name and std that they are enrolling in (info pulled from code).

Step 3: Entering the verification code (OTP on mobile or mail depending on option chosen)



The Code once used cannot be reused and will be counted used only after the verification is done and entered completely, if the verification is pending, then in that case the code would not be considered counted.

Error messages in case of code wrong or applied is impled during the development. Developer to share any more chances of errors that may come.

In a case where the student could be previously registered: Then his dashboard would be overridden by the code and what the code defines will what his dashboard will show along with any purchases that the user has done using the same id

FIRST SCREEN – Sample

Student Side

The screenshot shows the homepage of Storyweaver. At the top, there's a navigation bar with links for 'Read', 'Translate', 'Create', 'Resources', 'Offline Library', 'Yash', 'EN', and 'Donate'. Below the navigation is a search bar with the placeholder 'Search for a title' and a magnifying glass icon. A banner at the top says 'Learn At Home: Curated grade-wise resources Explore'.

The main content area features several sections:

- A large banner for 'Mr Reynolds collection' featuring a cartoon deer and the text 'HUSH UP AND MIGRATE!'.
- A 'BOOM OF THE WEEK' section with a cartoon frog and the number '13'.
- Category links: 'RECOMMENDED', 'DRA', 'COMICS', 'READ TO ME', 'VIDEOS', and 'AUDIOBOOKS'.
- A 'Explore by Grade' section with a 'Kindergarten' button.
- Five smaller cards for 'I Can Find It!', 'BRIGHT & BOLD', 'CREATURE CAMPERS', 'BOREDOM BUSTERS', and 'CAT NIN'.

Look & feel.

OFFLINE PACKAGE SYSTEM DEVELOPMENT – This is the system we have assumed, if you have a more refined and easier solution we are open to considering changes as per modern standards.

About the project

CBM has a offline reading portal which is based in Flash. Since flash has been discontinued, we have decided to revamp the existing model to a new “platform free model”. The old output files are in SWF which are further created into an exe and locked using DRM software for password locking. Currently we have successfully converted the files into an MP4 format with page turn effects.

The current project requirements are listed below:

Requirement	Process explained	Remarks / Queries
1. Flash Files to be converted to HTML 5 with animations too	<p>We have over 800+ books that require page turn effects and three buttons that would have *two activity buttons linking to existing test software* and *food for thought* button</p> <p>CBM's preference is that we use our current existing files which are Video Files, <u>SWF Files</u>, PDF, HTML Etc - sample files can be shared.</p> <p>Dictionary for difficult words (Tool Tip Text)</p>	<p>The developer just needs to create a software, like a flipbook maker or something system and convert a total of 30 books as sample.</p> <p>After that Explain and implement the system for CBM so the team could carry the work further for current and future books</p>
2. Should be platform friendly	Be it Android, Windows, iOS or Linux, we would like the software to function in all environments	
3. Should work in all deliverable environments	<p>Since our clients are school, the system architectures can vary from client to client. The various types of systems are:</p> <ol style="list-style-type: none"> Standalone computers / tabs with the various OS's as defined above Server to thin clients (Virtual desktops): in this case the server normally holds the mother software, while the N-Computing units create a virtual desktop for the systems. For information on NCOMPUTING please click the link below: https://www.amazon.in/NComputing-L300-Network-Server-Black/dp/B003S9FM7I/ref=asc_df_B003S9FM7I/?tag=googleshopdes-21&linkCode=df0&hvadid=396985364061&hvpos=&hvnetw=g&hvrand=12337873919684832470&hvpl 	These are the known environments we have currently functioned in, if there are any more environments you may please let us know and account for the same.

	<p><u>one=&hvptwo=&hvqmt=&hvdev=c&hvdvcmdl=&hvlocphy=9062282&hvtargid=pla-405660694528&psc=1&ext_vrncc=hi</u></p> <p>3. Server to thin clients (Individual CPU): Currently in this system, the Server is mainly just to aid the networking system.</p>	
4. User Reports	<p>CBM should be able to generate offline drill down reports with graphs in printable format for the following:</p> <ul style="list-style-type: none"> a. Institute wise reports b. Class wise reports c. Division Wise reports d. Student wise reports e. Book wise reports f. Activity Scores reports <p>Key matrix for the reports:</p> <ul style="list-style-type: none"> a. Total Hours read – break down to Day, week and monthly b. Books read – Category / Genres - Section and Book Name with session time c. Login in and log out time – session time d. Activity tracking – on click event e. Activity scores 	<p>Reports being saved offline should not affect the speed of the software or make it heavy on any environment.</p> <p>Admin Access for viewing reports in each environment.</p> <p>Optional Requirement : If the reports can be mailed automatically to a designated email ID monthly.</p> <p>Optional Requirement : Live admin panel.</p> <p>Query : How will standalone computers integrate data if the same student sits on a different computer each time.</p>

5. User registration	<p>Since we would be required to create Username for each student for Login purposes, the system should allow us to upload and activate using a CSV file.</p> <p>Using the CSV format, we upload the Students First name, last name, class, div, roll no and school code</p> <p>As an output file we should receive a valid Username that the system would check and allow the user to login.</p> <p>Eg : St Marys school has a strength of 50 children in class 6 A School Code would be: SMS First Name: Rohan Last Name: Shah Class: 1 Div: A Roll No: 23</p> <p>Output from system : SMSRS1A23YT0</p> <table border="1" data-bbox="464 871 1130 1073"> <thead> <tr> <th colspan="7">Input CSV</th></tr> <tr> <th>Sch. Code</th><th>First_name</th><th>Last_name</th><th>Class</th><th>Div</th><th>Rollno</th><th>Years</th></tr> </thead> <tbody> <tr> <td>SMS</td><td>Rohan</td><td>Shah</td><td>6A</td><td></td><td>23</td><td>0</td></tr> </tbody> </table> <table border="1" data-bbox="464 983 1130 1073"> <thead> <tr> <th colspan="7">OUT CSV</th></tr> <tr> <th>Sch. Code</th><th>First_name</th><th>Last_name</th><th>Class</th><th>Div</th><th>Rollno</th><th>Years</th></tr> <tr> <th colspan="6"></th><th>USERNAME</th></tr> </thead> <tbody> <tr> <td>SMS</td><td>Rohan</td><td>Shah</td><td>6A</td><td></td><td>23</td><td>0SMSRS1A23</td></tr> </tbody> </table>	Input CSV							Sch. Code	First_name	Last_name	Class	Div	Rollno	Years	SMS	Rohan	Shah	6A		23	0	OUT CSV							Sch. Code	First_name	Last_name	Class	Div	Rollno	Years							USERNAME	SMS	Rohan	Shah	6A		23	0SMSRS1A23	In some schools, they do not prefer sharing student data, in those cases, the system should allow us to leave the First name and last name blank.
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6. User login	<p>The system would have an icon the desktop.</p> <p>On start of the software a UI screen asking for Login would start.</p> <p>Student would input the assigned Username and have access to the package assigned to them.</p> <p>The tracking should start from the time of login to log out. Each student should log out if inactive for 25 mins or closes the software.</p>	<p>In the developer's opinion if there is a more efficient and effective system, please update.</p> <p>The purpose being that we should have true reports. Incase the student does not logout and another student continue using the same login in the next class.</p>																																																	

7. Software customization for School Logo	<p>Package when delivered to the school, requires the school logo in some cases. We should have the option to Upload a logo on the main page besides our Standard CBM/School E-library LOGO</p> <p>Type and filters under the E-book section (offline books)</p> <ol style="list-style-type: none"> 1. Genres / Categories 2. Alphabet wise 3. Grade – wise 	<p>In some categories or genres, it may happen that there are only few or limited books.</p> <p>In that case show the related search first and followed by display of ALL OTHER BOOKS under ALL CATEGORY</p> <p>In the developer's opinion if there is a more efficient and effective system, please update.</p> <p>The purpose being that if the books are less in any category, we can mask the GAP by showing relevant searches first followed by other books in that Section</p>
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Can book be read without internet .

8. System of locking and protection :

We want the system to be easy and full proof for which refer the steps given below.

All elibrary packages i.e Ver 1.17/1.18/1.19 would always be locked in a single Or in a standard Mother elibrary file and as per the keys that machine would unlock the relevant version. For more detailing follow the flow defined below.

New Setup / Renewal setup

Step 1 : The engineer will load the mother software.

Step 2: Key generating software with detailed logs

Option 1 : Ask for Machine ID – As per DRM currently.

Option 2 : Digital version of Order Form (given below) with a generate key with 2 step

verification. (Developers Opinion) Generate key should be enabled on acknowledgement of

the 2nd verifier.

Option 3 : Same as step 2 with Online Registration to collect some form of Machine Information (to keep track of old usage)

Step 3 : Exact number of Keys shared back to engineer

Optional Developments:

1. Reminder one month prior to expiry
2. Logs to check if the software had been loaded earlier as well
3. Geo-Tagging locations when unlocking software
4. Reading Zone – as per Magz