Each user is shown content based on his subscriptions
Subscriptions include related Grades, Classes & Subjects
Subscriptions are fetched from Class: Subscriptions using User objectId to search in the User Field

By default every page will require subscriptions to be fetched to only get the user`s related content

Filtering content of a page using v-if for each Role is handled already within the code so that every Role views Only what he is supposed to view.

I can add pointer to Role in a Field under Class: Profile

Parent account is linked to an Array of Students, so his account gets the subscriptions of these Students` subscriptions. And by default they view content shared with Role: Student or Parent. Only in Messages each of them gets his messages, meaning in messages Parent only views messages sent to his account and can`t view messages sent to his related students.
So Parent Role is like a filter to combine Content of more than a Student or one Student. Except in Messages where it has its own Messages.

News

Related Classes: Posts

This page is intended to show List of News.
Admin, Manager, Secretary and Teacher can add new News.

For each News these items are shown (Title, Content (reduced to the first 50 words), Number of Views & Number of Attached Files)

When a News is clicked the user is redirected to the News Full Page of this News.

Latest 10 News are shown and a button to Load More is shown when clicked following 10 News are shown, etc..

N.B as stated before Parent can view News sent to his Students, even the News were sent to Student Role Only.

Actions Bar:

Classes (Manager, Secretary, Admin, Teacher & Student Affairs)
Kids (Parent Only)
Roles (Admin, Manager)
Add Button (Admin, Manager, Secretary & Teacher)
N.B Classes, Kids and Roles are Filters to filter fetched data and updates the List of News to show Latest 10 for that Filter

Classes Button shows a list of related Classes and when a Class is chosen Only News related to that Class are shown (Latest 10 News of that Class). For Admin and Manager can view all of that Class`s News even if the their Role is not included in submitted News
e.g if a Teacher submitted a News to Students of his Class (as he can`t add Target Roles other than Parents and or Students), this News is not shown to Admin or Manager, but if Admin or Manager chose a Class from Classes Button, then this News is shown.

Kids Button shows a list of kids and when a Student is Chosen Only News related to that Student`s Class are shown
N.B when a student is chosen you show News for that Student`s Class targeting any these Roles (Student or Parent)

Roles Button is for Admin and Manager Only where they can filter News by Target Roles, But They view a complete list of News which include the selected Role even if their Role wasn`t included in the Target Roles of these News.
e.g if a Teacher submitted a News to Students of his Class (as he can`t add Target Roles other than Parents and or Students), this News is not shown to Admin or Manager, but if Admin or Manager chose Student from Roles Button, then this News is shown.

Add Button redirects to Add News Page.

Functions:

News Full Page Navigation
When a user clicks on a News, the News objectId is used in redirecting the user to "News Full Page" template file and use the objectId to show the Items of this chosen News.

Displaying News
A Function to show the Latest 10 News and when a user click on Load More Button, Next 10 News are shown.

Filter News
A Function to Filter News List by a specific value from Actions Bar Buttons and return the Latest 10 News and when a user click on Load More Button, Next 10 News are shown.

Related Pages:

News Full Page

File Name: news-single.vue

This page displays all items of the News.
Items are Title, Content, Target Classes, Target Roles, Attachments, Date (Date When News is Submitted) & Number of Views

Actions Bar:

Delete Button (Manager, Admin & Author)

Functions:

Increase Views Count
When a user views a News you should check if the user already exists in the Field: ViewUsers, if the user already exists nothing is done, if not then the count of "Views" increases by 1 and his objectId is added to the Array in Field "ViewUsers".

Download All Attachments
Function to zip all attachments into a single zip file.

Delete News
A Function to delete the News from database.

Add News Page

Authorized users can add new News.
Input Fields for these Items
Title, Content, Target Classes (Dropdown Multiple Select), Target Roles (Dropdown Multiple Select),
Attachments (Upload Files)
Date (Date when News is Submitted)

Functions:

Upload Files
Function to upload file to Class: Files with progress bar and ability to upload multiple files and after
successful each file, get objectId of the uploaded file.

Add News
A Function to add new News items (Title, Content, Target Classes, Target Roles, Array of Pointers to
uploaded Files)
Validate input data:
Title & Content cannot be empty fields.
At least one Class and one Role is selected.

Targets
A Function to show Classes and Roles that authorized users are subscribed to.
Admin, Manager and Secretary can Select Role from a complete list of Roles.
Teacher can select Role of these (Parents, Students)

Push Notifications:

Once News is submitted, a push notification to linked users is sent notifying them that there is a new
News published. Only selected Roles get the push notification, and if News is sent to Students, include
Parents in Push Notifications even if Parent wasn`t selected in Target Role.

Calendar

This page is intended to show List of Events.
Admin, Manager, Secretary can add new News.

For each Event these items are shown (Title, Start Date and End Date)

When an Event is clicked the user is redirected to the Event Full Page of this Event.

Latest 10 Events are shown and a button to Load More is shown when clicked following 10 Events are shown, etc..

N.B as stated before Parent can view Events sent to his Students, even the Events were sent to Student Role Only.

Actions Bar:

Classes (Manager, Secretary, Admin, Teacher & Student Affairs)
Kids (Parent Only)
Roles (Admin, Manager)
Add Button (Admin, Manager, Secretary & Teacher)
N.B Classes, Kids and Roles are Filters to filter fetched data and updates the List of Events to show Latest 10 for that Filter

Classes Button shows a list of related Classes and when a Class is chosen Only Events related to that Class are shown (Latest 10 Events of that Class). For Admin and Manager can view all of that Class`s Events even if the their Role is not included in submitted Events
e.g if a Teacher submitted a Event to Students of his Class (as he can`t add Target Roles other than Parents and or Students), this Event is not shown to Admin or Manager, but if Admin or Manager chose a Class from Classes Button, then this Event is shown.

Kids Button shows a list of kids and when a Student is Chosen Only Events related to that Student`s Class are shown
N.B when a student is chosen you show Events for that Student`s Class targeting any these Roles (Student or Parent)

Roles Button is for Admin and Manager Only where they can filter Events by Target Roles, But They view a complete list of Events which include the selected Role even if their Role wasn`t included in the Target Roles of these Events.
e.g if a Teacher submitted an Event to Students of his Class (as he can`t add Target Roles other than Parents and or Students), this Event is not shown to Admin or Manager, but if Admin or Manager chose Student from Roles Button, then this Event is shown.

Add Button redirects to Add Event Page.

Functions:

Event Full Page Navigation
When a user clicks on an Event, the Event objectId is used in redirecting the user to "Event Full Page" template file and use the objectId to show the Items of this chosen Event.

Displaying Event
A Function to show the Latest 10 Events and when a user click on Load More Button, Next 10 Events are shown.

Filter Events
A Function to Filter Events List by a specific value from Actions Bar Buttons and return the Latest 10 Events and when a user click on Load More Button, Next 10 Events are shown.

Related Pages:

Event Full Page

File Name: event.vue

This page displays all items of the Event.
Items are Title, Content, Target Classes, Target Roles, Attachments, Start Date, End Date & Number of Views, Date (Date When Event is Submitted)

Actions Bar:

Delete Button (Manager, Admin & Author)

Functions:

Increase Views Count
When a user views an Event you should check if the user already exists in the Field: ViewUsers, if the user already exists nothing is done, if not then the count of "Views" increases by 1 and his objectId is added to the Array in Field "ViewUsers".

Download All Attachments
Function to zip all attachments into a single zip file.

Delete Event
A Function to delete the Event from database.

Add Event Page

File Name: event-add.vue

Authorized users can add new Event.
Input Fields for these Items
Title, Content, Target Classes (Dropdown Multiple Select), Target Roles (Dropdown Multiple Select),
Attachments (Upload Files), Start Date (Date), End Date (Date)
Date (Date when Event is Submitted)

Functions:

Upload Files
Function to upload file to Class: Files with progress bar and ability to upload multiple files and after
successful each file, get objectId of the uploaded file.

Add Event
A Function to add new Event items (Title, Content, Target Classes, Target Roles, Array of Pointers to
uploaded Files)
Validate input data:
Title, Content, Start Date and End Date cannot be empty fields.
At least one Class and one Role is selected.

Targets
A Function to show Classes and Roles that authorized users are subscribed to.
Admin, Manager and Secretary can Select Role from a complete list of Roles.
Teacher can select Role of these (Parents, Students)

Push Notifications:

Once Event is submitted, a push notification to linked users is sent notifying them that there is a new
Event published. Only selected Roles get the push notification, and if News is sent to Students, include
Parents in Push Notifications even if Parent wasn`t selected in Target Role.

Timetable

File Name: timetable.vue

Related Classes: Timetable

This page is intended to show Timetable of a Class (list of lessons for each working day)
Each Lesson can have one or more Subjects
Teacher Timetable shows Classes besides the word Lesson # - , instead of Subject(s)
Admin is the Only one to edit Timetable.

in case there is more than one Subject for a Lesson:
Admin, Manager & Secretary see the Subjects for that Lesson comma separated
Student & Parent view only the Student`s subscribed Subject

N.B when a Lesson has more than one Subject, in the database this means there is more than one row with same Class and same Lesson Number and same Day, but different Subjects

Actions Bar:

Classes (Manager, Secretary, Admin, Teacher)
Kids (Parent Only)
Teachers (Admin, Manager, Secretary)
My Timetable (Teacher)
Edit Button (Admin)

Classes Button shows a list of related Classes and when a Class is chosen Only Timetable of that Class is shown.

Kids Button shows a list of kids and when a Student is Chosen Only the Timetable of that Student`s is shown

Teachers Button shows a list of all linked Teachers to choose a Teacher and view this Teacher`s Timetable (Teacher Timetable Template).

Edit Button redirects to Edit Timetable Page.

Functions:

Teacher Timetable Navigation
When a user clicks on an Teacher from Teacher Filter, the Teacher`s objectId is used in redirecting the user to "Teacher Timetable Page.

Edit Timetable Navigation
When a user clicks on Edit Timetable Button, the user is redirected to Edit Timetable Page passing Class objectId to edit Timetable of this Class.

Classes Filter

When a user clicks on a Class from Classes Button, change the view to get timetable of the newly selected Class by searching in Timetable using the newly selected Class objectId.

Kids Filter

Similar as Classes Filter but displaying a list of Students Names instead of Classes Names, and get the Class`s Timetable of that Student when selected.

Displaying Timetable

A Function to show the Lessons for a Class by searching for Class objectId in Class: Timetable and fetch all lessons with related data (Day, Lesson Number, Subject) and show these data within the template.

Related Pages:

Teacher Timetable Page

File Name: timetable-teacher.vue

Similar to Normal Timetable except it shows Class name beside the Lesson # - instead of Subject(s)

Actions Bar:

Classes (Manager, Secretary, Admin, Teacher)
Teachers (Admin, Manager, Secretary)

Same Functions as Timetable

Functions:

Teacher Timetable Display

Search Teacher`s Subscriptions to get Classes and Subjects linked to him and use the objectId of these Classes and Subjects and Search for them in Class: Timetable and build that teacher`s Timetable.

Edit Timetable Page

File Name: timetable-edit.vue

Admin Only.
A Class must be chosen to edit its Timetable
The page contains Dropdown menu with ability to multiple select for each Lesson in each Day.
The dropdown shows a list of Subjects linked to that Class
After choosing Subjects for each Lesson , the data is saved automatically without the need to click on a submit button (just by choosing Subjects for a Lesson, the data is submitted)

Functions:

Grab Subjects

Function to fetch list of Subjects linked to hat Class, by searching using the Class objectId in Class: Structure and Type: Subject.

Display Current Subjects of a Lesson

similar function in display Timetable in Timetable Page, and the values update when the admin changes the values from the dropdown menu.

Saving Lessons

A Function to save newly added data, if a Subject is removed from a Lesson, Delete it from DB
if a Subject is added to Lesson, a new database entry is inserted with the new value.