

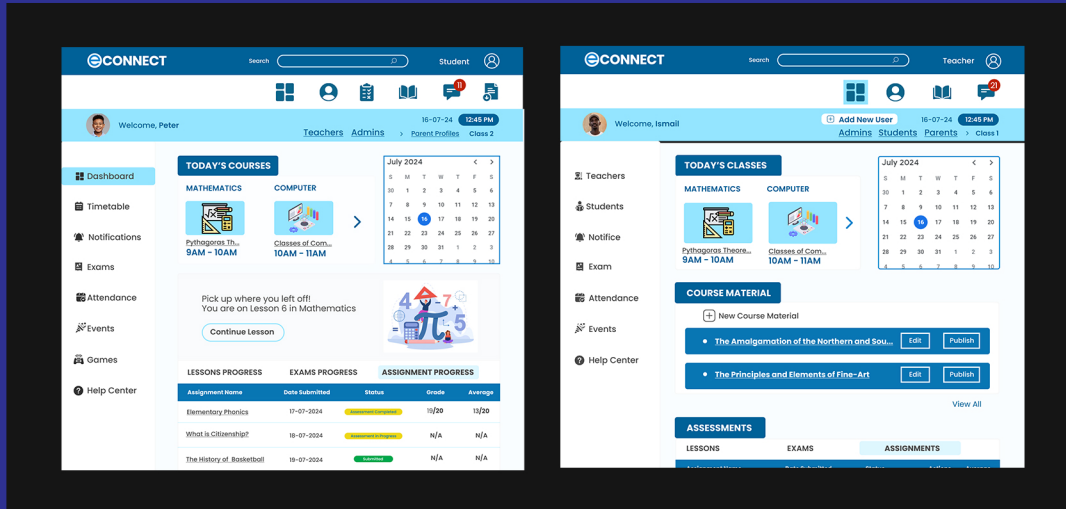
E-CONNECT WHITEPAPER

01 Technologies

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I. EXECUTIVE SUMMARY.



The E-connect Web Product is an Educational School or Learning Management System. The Product aims to simplify the Management of work processes, learning processes, payment processes and facilitates accountability between the school and the parents or Guardians, the Teachers and Parents, the Teachers and the School Admin and likewise the Student and the Teacher within the school system.

There are four major dashboards for the four classes of users of the e-connect web product. This includes:

1. Admin
2. Teacher
3. Student
4. Parent/Guardian

Subsequent headers will discuss or describe topical details about the Application User Interface and prototype.

II. RELATIONSHIPS



This section will attempt to describe the relationship between the different user types of this Application and their permissions. The Admin is the Super-user of this application and has unrestricted access to all functionalities and features within the application. It is the responsibility of the Admin to create new users, update user Information, and if need be, delete a user. This responsibility can be delegated to ease the management of the school management system on the Super-admin.

Thus, an admin has the rights to create:

1. **An Admin** with the same right and privileges, for instance Principals, Vice-principals and other management cadre school officials and Head of departments could be granted these right. In this case, some teachers would be Admins. An Admin can send Information to all and access all user dashboards and can perform oversight and permission authorizations for

other users.

The Limitations on an Admin would Include Edit course materials, changing a Student score or report, changing the timetables and announcements made by teachers.

They would be able to view and read, but not edit these documents. Although, a teacher would need to get documents passed and authorized by an Admin before it can be uploaded and accessed by the students.

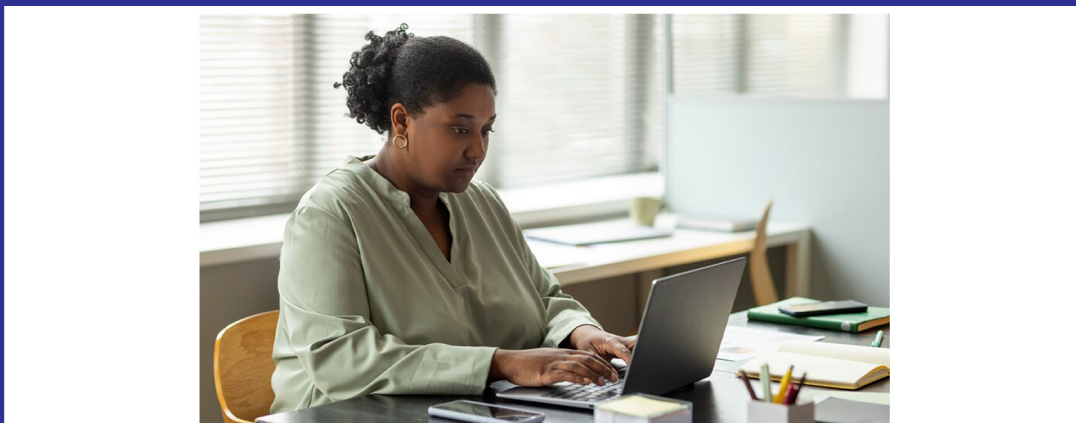
2. **A Sub-admin** with specified or specialised rights and privileges for instance, all Teachers are Sub-admins. Sub-admins can create new student and Parent roles with the needed authorization of an Admin. But Sub-admins cannot create other Sub-admin roles. A new teacher dashboard would need to be created by an Admin.

3. **A student -**

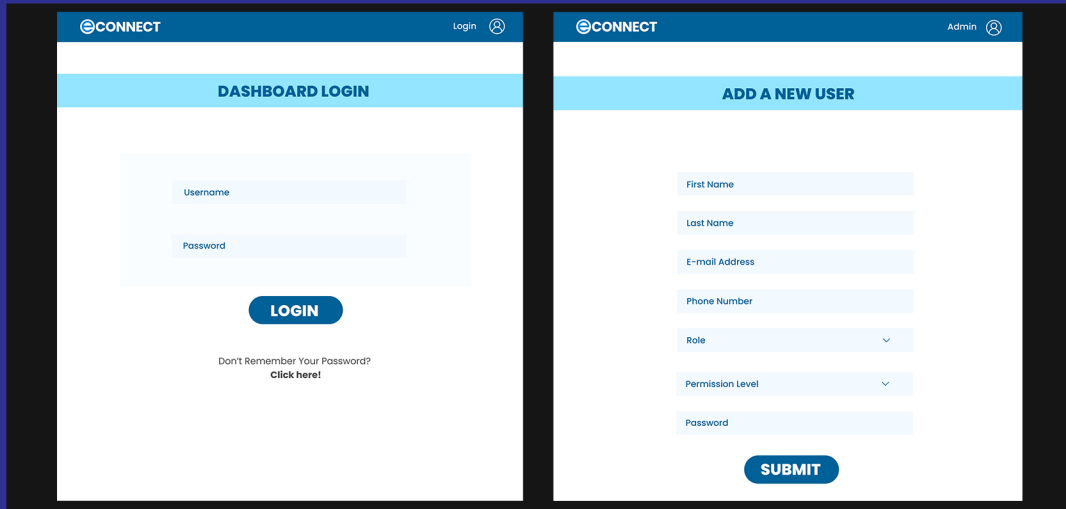
A student role and dashboard are always linked to at least one Parent role or dashboard. A student dashboard can be deleted or created by the Admins and Sub-admins.

4. **A Parent –**

A Parent role can be created or deleted by an Admin and a Sub-admin. A Parent role is always linked to at least one student role.



III. SIGNUP AND LOGIN



An Admin typically has the responsibility of creating new users via the Sign-up page. An admin inputs users' information and assign roles and permissions to each user. These roles will often determine the permissions users have except for Teachers that can be either Admins or Sub-admins. As such, a role would often determine the permission in most cases, but in some cases, a role would need to be given further definition by the permission. There can be a number of admins, but there can only be one Super-admin per school. A Super-admin can create other Admin or group of admins. The Super-admin reserves the right to create, update or delete an admin. An admin can create sub-admins, parents, and student roles. But only a Super-Admin can create another Admin. A Sub-Admin can create Student and Parent roles but a Sub-admin cannot create another Sub-admin role. Students and Parents roles cannot create nor delete roles. A Parent and Student roles are Independently created and linked via the parent's dashboard. A Parent's dashboard has a feature that enables parents to add and

link student's accounts to their dashboards. When successfully linked. Parents will have access to specified parts of the student's dashboard. Parents can link as many students as are required.

If a Parent account is not linked to a student account or vice-versa within a 3-day timeline. Functionalities for the application will be suspended until a link is formed.

When a Signup is completed, users can now login to access the application and use the functionalities available within it as soon as a link is formed.

SIGNUP DROPDOWN – “ROLE”

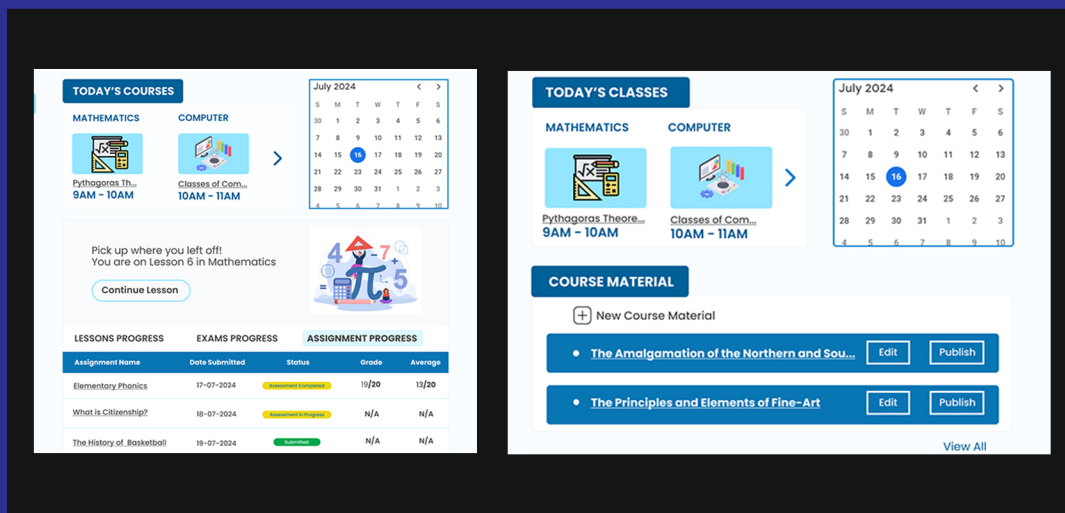
The screenshot shows the 'ADD A NEW USER' form in the @CONNECT application. The form includes fields for First Name, Last Name, E-mail Address, Phone Number, Role, Permission Level, and Password. The 'Role' dropdown menu is open, displaying the following options: Student (highlighted), Teacher, Parent, and Admin. A 'SUBMIT' button is located at the bottom of the form.

SIGNUP DROPDOWN – “PERMISSION”

The screenshot shows the 'ADD A NEW USER' form in the @CONNECT application. The form includes fields for First Name, Last Name, E-mail Address, Phone Number, Role, Permission Level, and Password. The 'Permission Level' dropdown menu is open, displaying the following options: Basic (highlighted), Admin, and Sub-Admin. A 'SUBMIT' button is located at the bottom of the form.

IV. PRODUCT FEATURES

The E-connect School Management Application consists of minimal, but functional, easy-to use features and functionalities that address the needs of admins and users within a school system ranging from day-to-day running processes within a school, to other less recurrent activities like Payment and assigning a teacher to a class. A couple of the major Product features will be highlighted and commented on to give a clearer direction on the why and how of each product feature.

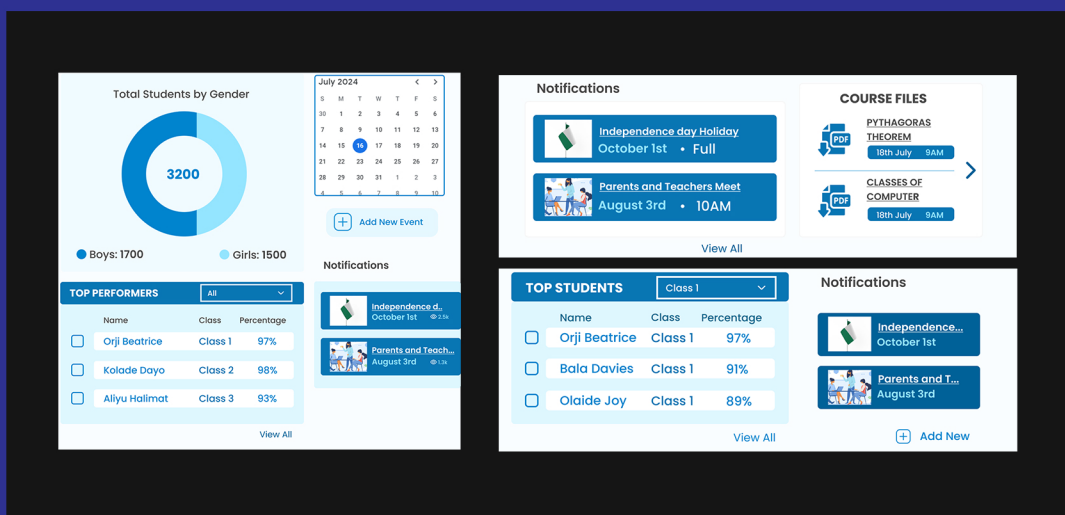


1. Lesson Management

The Major function of a School is Education. Every other function a school serves will be viewed as secondary relative to this. The E-connect application has a learning Management system whereby Teachers can create new materials, schedule it for release at a specified time and date. And students will be able to see these materials when released. These materials will be downloadable in this context. Teachers can also edit these materials if there is need for a fix or update.





Also, the timetable for classes can be viewed by students on their dashboards. It will be the responsibility of the class-teachers to create this, but this would not be uploadable to the student's dashboards except vetted and authorised by the School Admin(s).

Parents/Guardians will also be able to access timetables, and reports on their dashboards but will not be able to access uploaded materials from their own dashboards.



2. Announcements and Messaging (Information Dissemination) -

An Admin can create announcements that can be received across all user roles. On the other hand, a teacher can only create announcements that can be received only by Students and Parents of students within his/her assigned class. A teacher cannot create announcements that will be readable by students from another class he or she is not tutoring nor assigned to.

PAYMENT STATUS		Class 5	
Name	Status		
<input type="checkbox"/> Chinedu Nneka		FULL	
<input type="checkbox"/> Halim Hassam		PART	
<input type="checkbox"/> Olumide Bimbo		FULL	
<input type="checkbox"/> Osagie Freedom		FULL	

3. Payment Management

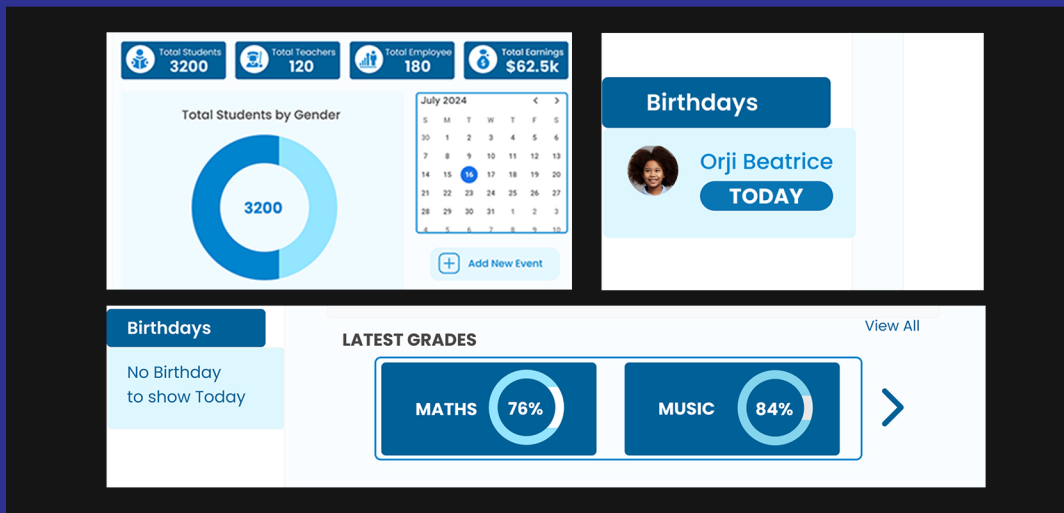
Parents will be able to make School fee and other Miscellaneous Payments via the Application. Parents will be able to view and print invoices for every transaction carried out on the Application.

Admins can see the status of Payment for each student, and parents will also be able to see the Payment status for their wards on their dashboard.

Teachers will have access to each Student's payment status via the application.

Students will not be able to view their payment status on their dashboard.

Payment Management Personnels including School Accountants and Bursars would be able to see payment status for all students if given an Admin role.



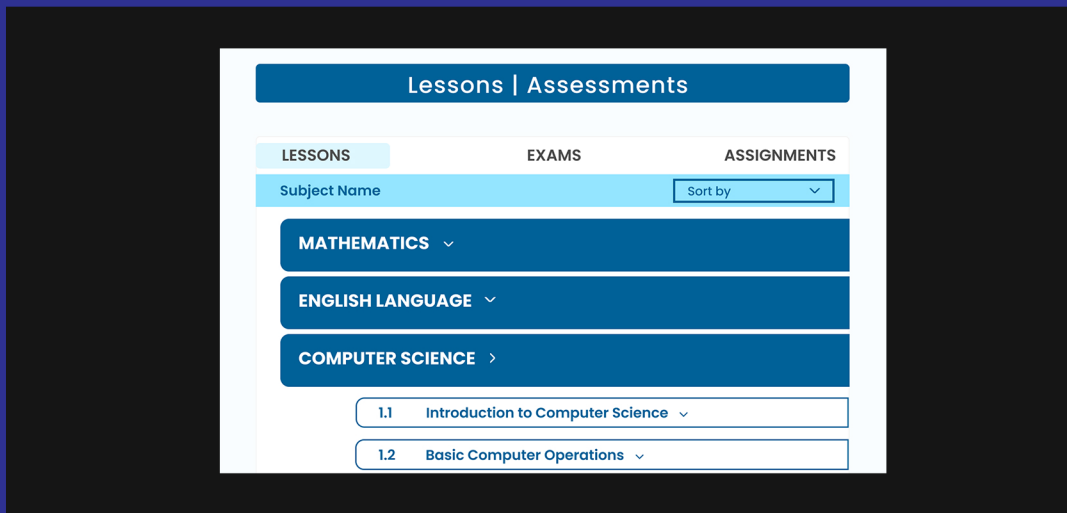
4. Calendar Management

Admins and Sub-admins have the responsibility of creating event timelines on the Calendar which can be accessed by the Students, Parents and Teachers alike.

Students can plan their learning, events and holidays via the Calendar. Teachers can set-up classes, create events and set deadlines via the Calendar. Also, Admins can set holidays, general events and birthdays via the app.

Admins for instance can view all birthdays, Teachers who are only Sub-admins can only view birthdays for students in their classes. Parents can only view birthday of their wards. And students can only view birthdays of students in their classes.

Although a brother and a sister attend the same school and uses the E-connect application, and share the same parent, they will not be able to see the birthday event for a sibling as long as they are not in the same class. But parent will be able to see the birthday notification for all of their wards.



5. Assessment Management

Teachers can create assessments on courses and learning materials for their students in form of Assignments and Exams.

Students can view Lessons by Subjects when they click on the 'Lessons' button in the Lessons and Assessments page. When a subject is clicked, students get access to the titles under a specific subject. Clicking on the title will lead to a page with the course materials for the subject. Course materials can be textual content, pictures or Videos.

Lessons can also be sorted by a couple of parameters including Name, date Modified e. t. c

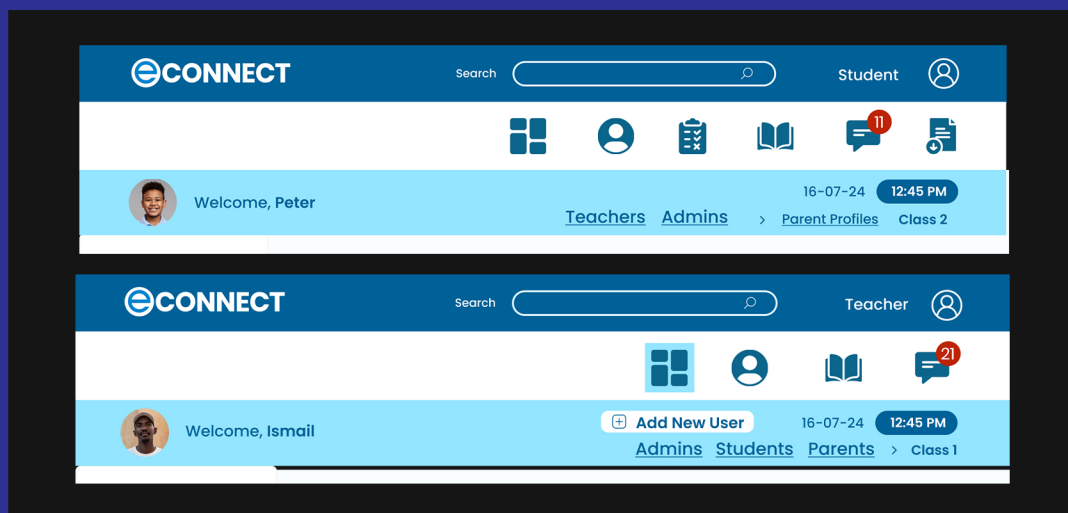
Students can also view Assignments and Exams by Subjects when they click on the 'Assignments' or 'Exams' button. Assignments or Exams will be arranged by Subjects, clicking on a Subject will lead to a specific exam or assignment module, which students can complete within the assigned time for the assessment and submit.

When submitted. Teacher will get notified and can see statuses on their dashboards for each submission, showing whether the assessment has been completed or not.

When the Teacher completes the assessments, students can view their scores on their dashboards, see their Finished or Unfinished Lessons, Assignments and Exams on their dashboards.

A Lesson will be deemed finished when a student scrolls to the last line of the page.

An assignment or Exam will be deemed finished when a student has passed inputs into all non-optional fields within an assessment document.



6. Search Management

The Application has an in-built Search functionality that enables the location of permitted Information within a page.

The Search function can be used by an Admin for example to search for a specific Teacher by name.

A Teacher might engage the search functionality to search for a specific student using his/her name. A student might engage the Search functionality bar to search for a specific course material within the Resources (Lessons and Assessment Pages).

The Search functionality is integral to the Application flow as it helps speedily navigating to specific locations within the Application without having to do a directory-by-directory navigation.

Users can also click on roles linked on the page header by the right to view user instances within those roles to access their profiles, and take actions such as messaging them or gleaning professional information about them from their Profile page.

V. PAGE SPECIFIC NOTES.

Page Specific notes explain certain fields or attribute within a page that might need documented clarification.

1. ADMIN PAGE

Admins can access analytical general data that gives an overview of the school management state, which would include, financial overview and data, workforce data, and quick data analysis view of factors like “Top-performers” and “Attendance” which can be sorted by class or based on other parameters.

2. TEACHER’S PAGE

On the Teachers page, a teacher can click on the “New Course Material” button to start the creation of a new course material.

This can be drafted and then edited at a different time. A Teacher can choose to Publish Now or schedule a Time to automatically publish the document.

For the Assessment section, a Teacher can click between the Lessons, Assignments and Exams field to grade all student’s submissions for a certain Assignment or Exam. It will be indicated when all submissions have all been graded or not if not.

A teacher can create class-specific announcements and events.

3. PARENT'S PAGE

On a Parent Page, a Parent can click on any of the students linked to her by clicking on the “children’s profiles” or bars with the student’s image and name.

A parent can switch between the children’s profiles. When a particular children profile is clicked, a general overview of the student’s performances and activities are displayed.

A parent can see classes lineup and timelines for the classes, but cannot attend classes, or access instructional materials.

A parent can view scores for all of their wards, their upcoming classes schedule for each child, payment statuses, and announcements from Admins and Sub-admins (Teachers).

A parent can download reports for a child from his or her dashboard.

A parent can click on the “Admin” and “Sub-admin” link on the right header of their dashboards to access a list of teachers and their profiles. A parent can message an Admin or Teacher from their profiles.

4. STUDENT'S PAGE

The student’s page has a couple of sections that make learning accessible and enjoyable. Students have ready access to learning documents and can also view courses for the day and plan based learning and Holidays based on the Calendar.

Students can take assessments, see if they have been graded or not, and also see lessons, assignments and

exams that are either finished or outstanding.
Students can read and also download course files from their dashboards.
Students can also play supported games via the link on the Application.

5. PROFILE PAGE

Each user has a profile page that contains specified personal and professional information concerning them. These Profile page can be accessed based on the roles and permissions. A user can access profile pages of all users their roles and permissions allow for.

On a student's profile page for instance, there will be fields showing some personal information of the student and also the linked Parents. Admins and Sub-admins accessing these profiles will be able to call and message the linked parents from the student's section.

CONCLUSION

This Whitepaper aims to guide developer and users of the app on navigational and functional themes within the Application.

There might be more topical information required by the developers and users of this application that might not have been covered within this document.

For further clarification, and specific edge case scenarios, kindly contact the Author of this Whitepaper.

Thank you.