

# COLLEGE CONNECT

*(College Apps Bundle)*



**Cluster Innovation Centre  
University of Delhi**

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AUG-NOV 2021

Semester Project submitted for the paper of:  
*Software Project Management*

# TEST CASES

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The various test cases for College Connect are :

- Module : User Authentication

Design & Execution Date : 07/09/2021 - 17/09/2021

Test Case ID.	1
Priority	High
Test Title	Checking User Login status
Test Description	Checks whether a user has previously login or not
Dependency	Internet Connectivity & Connection to the Database
Steps	Opening the app automatically checks whether a user snapshot exists in the database and internal storage or not
Expected Result	If user is logged in, he will be taken to home screen, otherwise login screen
Actual Result	App crashed
Estimated Time	700 ms at least, depends on internet connectivity
Status	Fail
Notes	App was not allowed to read / write storage. Therefore, any read operation failed. Need to ask permission

Test Case ID.	2
Priority	High
Test Title	Checking User Login status
Test Description	Checks whether a user has previously login or not
Dependency	Internet Connectivity & Connection to the Database
Steps	Opening the app automatically checks whether a user snapshot exists in the database and internal storage or not
Expected Result	If user is logged in, he will be taken to home screen, otherwise login screen
Actual Result	App taking longer than expected
Estimated Time	700 ms at least, depends on internet connectivity
Status	Fail
Notes	Internet connectivity issues, pop a dialog to user that his internet is weak

Test Case ID.	3
Priority	High
Test Title	Checking User Login status
Test Description	Checks whether a user has previously login or not
Dependency	Internet Connectivity & Connection to the

	Database
Steps	Opening the app automatically checks whether a user snapshot exists in the database and internal storage or not
Expected Result	If user is logged in, he will be taken to home screen, otherwise login screen
Actual Result	User is directed to respective destinations according to his login status
Estimated Time	700 ms at least, depends on internet connectivity
Status	Pass
Notes	

Test Case ID.	4
Priority	High
Test Title	Registration Account
Test Description	This test case tests the registration process
Dependency	Internet Connectivity & Connection to the Database
Steps	"Any entity can only be registered by admin. Admin opens the app. Under Register tab, admin clicks on the entity he/she wants to register. Fill out all the mandatory fields. After that an email / password is generated for that user and now that user is registered and if the information matches the required format the user can login into his account.

	"
Expected Result	User is Registered
Actual Result	App crashes
Estimated Time	At Least 40 seconds, depends on admin typing speed and internet connectivity
Status	Fail
Notes	com.google.firebase.auth.FirebaseAuthException: This operation is not allowed. You must enable this service in the console. ERROR_OPERATION_NOT_ALLOWED. Enable Firebase Authentication

Test Case ID.	5
Priority	High
Test Title	Registration Account
Test Description	This test case tests the registration process
Dependency	Internet Connectivity & Connection to the Database
Steps	"Any entity can only be registered by admin. Admin opens the app. Under the Register tab, admin clicks on the entity he/she wants to register. Fill out all the mandatory fields. After that an email / password is generated for that user and now that user is registered and if the information matches the required format the user can login into his account." "

Expected Result	User is Registered
Actual Result	App crashes
Estimated Time	At Least 40 seconds, depends on admin typing speed and internet connectivity
Status	Fail
Notes	"invalid-oauth-provider": "EmailAuthProvider is not supported for this operation. This operation only supports OAuth providers.", (Enable Email/Password Authentication

Test Case ID.	6
Priority	High
Test Title	Registration Account
Test Description	This test case tests the registration process
Dependency	Internet Connectivity & Connection to the Database
Steps	"Any entity can only be registered by admin. Admin opens the app. Under the Register tab, admin clicks on the entity he/she want to register. Fill out all the mandatory fields.After that an email / password is generated for that user and now that user is registered and if the information matches the required format the user can login into his account.  "
Expected Result	User is Registered
Actual Result	Nothing happens as if app isn't responding

Estimated Time	At Least 40 seconds, depends on admin typing speed and internet connectivity
Status	Fail
Notes	User email not in correct format. Therefore, no email / password combination is generated. Show error dialog

Test Case ID.	7
Priority	High
Test Title	Registration Account
Test Description	This test case tests the registration process
Dependency	Internet Connectivity & Connection to the Database
Steps	"Any entity can only be registered by admin. Admin opens the app. Under the Register tab, admin clicks on the entity he/she wants to register. Fill out all the mandatory fields. After that an email / password is generated for that user and now that user is registered and if the information matches the required format the user can login into his account.  "
Expected Result	User is Registered
Actual Result	Nothing happens as if app isn't responding
Estimated Time	At Least 40 seconds, depends on admin typing speed and internet connectivity

Status	Fail
Notes	User password too short. Therefore, not generated. Show error dialog

Test Case ID.	8
Priority	High
Test Title	Registration Account
Test Description	This test case tests the registration process
Dependency	Internet Connectivity & Connection to the Database
Steps	"Any entity can only be registered by admin. Admin opens the app. Under the Register tab, admin clicks on the entity he/she wants to register. Fill out all the mandatory fields. After that an email / password is generated for that user and now that user is registered and if the information matches the required format the user can login into his account."
Expected Result	User is Registered
Actual Result	Nothing happens as if app isn't responding
Estimated Time	At Least 40 seconds, depends on admin typing speed and internet connectivity
Status	Fail
Notes	No Internet connection. Loading doesn't disappear. Make a service that always checks for connection and displays popup accordingly.



Test Case ID.	9
Priority	High
Test Title	Registration Account
Test Description	This test case tests the registration process
Dependency	Internet Connectivity & Connection to the Database
Steps	"Any entity can only be registered by admin. Admin opens the app. Under the Register tab, admin clicks on the entity he/she wants to register. Fill out all the mandatory fields. After that an email / password is generated for that user and now that user is registered and if the information matches the required format the user can login into his account."
Expected Result	User is Registered
Actual Result	Nothing happens as if app isn't responding
Estimated Time	At Least 40 seconds, depends on admin typing speed and internet connectivity
Status	Fail
Notes	An account already exists with that email. Show popup to admin

Test Case ID.	10
Priority	High
Test Title	Registration Account
Test Description	This test case tests the registration process
Dependency	Internet Connectivity & Connection to the

	Database
Steps	"Any entity can only be registered by admin. Admin opens the app. Under the Register tab, admin clicks on the entity he/she wants to register. Fill out all the mandatory fields. After that an email / password is generated for that user and now that user is registered and if the information matches the required format the user can login into his account." "
Expected Result	User is Registered
Actual Result	User is registered
Estimated Time	At Least 40 seconds, depends on admin typing speed and internet connectivity
Status	Pass
Notes	An account already exists with that email. Show popup to admin

Test Case ID.	11
Priority	High
Test Title	Login Account
Test Description	This test case tests the login process
Dependency	Internet Connectivity & Connection to the Database & account exists or not
Steps	User opens the app and if the user has not logged in before then the user is taken to the login screen. Upon successful authentication,

	he/she is taken home.
Expected Result	Successful login if email and password is correct
Actual Result	App crashes. Null pointer exception
Estimated Time	10 seconds depending on user's internet and speed
Status	Fail
Notes	No account exists. Display popup

Test Case ID.	12
Priority	High
Test Title	Login Account
Test Description	This test case tests the login process
Dependency	Internet Connectivity & Connection to the Database & account exists or not
Steps	User opens the app and if the user has not logged in before then the user is taken to the login screen. Upon successful authentication, he/she is taken home.
Expected Result	Successful login if email and password is correct
Actual Result	Nothing happens.
Estimated Time	10 seconds depending on user's internet and speed
Status	Fail
Notes	Email not in correct format. Check for

	validation when calling onClickListener()
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Test Case ID.	13
Priority	High
Test Title	Login Account
Test Description	This test case tests the login process
Dependency	Internet Connectivity & Connection to the Database & account exists or not
Steps	User opens the app and if the user has not logged in before then the user is taken to the login screen. Upon successful authentication, he/she is taken home.
Expected Result	Successful login if email and password is correct
Actual Result	Nothing happens
Estimated Time	10 seconds depending on user's internet and speed
Status	Fail
Notes	Password is incorrect. Show popup to user

Test Case ID.	14
Priority	High
Test Title	Login Account
Test Description	This test case tests the login process
Dependency	Internet Connectivity & Connection to the Database & account exists or not

Steps	User opens the app and if the user has not logged in before then the user is taken to the login screen. Upon successful authentication, he/she is taken home.
Expected Result	Successful login if email and password is correct
Actual Result	User logged in and taken to home
Estimated Time	10 seconds depending on user's internet and speed
Status	Pass
Notes	Password is incorrect. Show popup to user

- Module : Course Management

Design & Execution Date : 20/09/2021 - 22/09/2021

Test Case ID.	15
Priority	Medium
Test Title	Adding Courses
Test Description	This test case checks whether a course is added or not
Dependency	Connection to Firebase Realtime Database
Steps	Admin opens the app and clicks on the course management card view. He/she then clicks on the "+" button on the upper right corner of the toolbar. Admin is presented with a bottom sheet dialog to fill all the relevant details. Upon clicking Done, the course is added
Expected Result	Course is created

Actual Result	Successfully Added
Estimated Time	30 seconds, depends on admin
Status	Pass
Notes	Password is incorrect. Show popup to user

Test Case ID.	16
Priority	Medium
Test Title	Viewing Courses
Test Description	This test course checks if a course can be viewed upon successful creation
Dependency	Connection to Firebase Realtime Database
Steps	Admin opens the app and clicks on course management card view and the list of courses is displayed
Expected Result	Courses List is retrieved
Actual Result	Shimmer Layout not going
Estimated Time	2 seconds, depends on internet
Status	Fail
Notes	Set visibility of shimmer layout to false once the data is retrieved

Test Case ID.	17
Priority	Medium
Test Title	Viewing Courses
Test Description	This test course checks if a course can be

	viewed upon successful creation
Dependency	Connection to Firebase Realtime Database
Steps	Admin opens the app and clicks on course management card view and the list of courses is displayed
Expected Result	Courses List is retrieved
Actual Result	Courses are viewed easily, but when adding a course, the view doesn't get updated right away.
Estimated Time	2 seconds, depends on internet
Status	Fail
Notes	Update the recycler view

Test Case ID.	18
Priority	Medium
Test Title	Viewing Courses
Test Description	This test course checks if a course can be viewed upon successful creation
Dependency	Connection to Firebase Realtime Database
Steps	Admin opens the app and clicks on course management card view and the list of courses is displayed
Expected Result	Courses List is retrieved
Actual Result	Courses List retrieved
Estimated Time	2 seconds, depends on internet

Status	Pass
Notes	Update the recycler view

- Module : Batches Management

Design & Execution Date : 24/09/2021 - 25/09/2021

Test Case ID.	19
Priority	Medium
Test Title	Adding Batches
Test Description	This test case checks whether a course is added or not
Dependency	Connection to Firebase Realtime Database
Steps	Admin opens the app and clicks on the course management card view. Then the admin clicks on the course in which he/she wishes to add a batch. He/she then clicks on the "+" button on the upper right corner of the toolbar. Admin is presented with a bottom sheet dialog to fill all the relevant details. Upon clicking Done, the batch is added
Expected Result	Batch is added
Actual Result	Batch not created
Estimated Time	30 seconds, depends on admin
Status	Fail
Notes	Firebase Path is incorrect. Make an array list of batch models and save it in courseModel.



Test Case ID.	20
Priority	Medium
Test Title	Adding Batches
Test Description	This test case checks whether a course is added or not
Dependency	Connection to Firebase Realtime Database
Steps	Admin opens the app and clicks on the course management card view. Then the admin clicks on the course in which he/she wishes to add a batch. He/she then clicks on the "+" button on the upper right corner of the toolbar. Admin is presented with a bottom sheet dialog to fill all the relevant details. Upon clicking Done, the batch is added
Expected Result	Batch is added
Actual Result	Batch not created
Estimated Time	30 seconds, depends on admin
Status	Fail
Notes	Firebase Path is incorrect. Make an array list of batch models and save it in courseModel.

Test Case ID.	21
Priority	Medium
Test Title	Adding Batches
Test Description	This test case checks whether a course is added or not
Dependency	Connection to Firebase Realtime Database

Steps	Admin opens the app and clicks on the course management card view. Then the admin clicks on the course in which he/she wishes to add a batch. He/she then clicks on "+" button on the upper right corner of the toolbar. Admin is presented with a bottom sheet dialog to fill all the relevant details. Upon clicking Done, the batch is added
Expected Result	Batch is added
Actual Result	App Crashes
Estimated Time	30 seconds, depends on admin
Status	Fail
Notes	If there is not a single batch in the course then first initialize a empty Array List and then add batches

Test Case ID.	22
Priority	Medium
Test Title	Adding Batches
Test Description	This test case checks whether a course is added or not
Dependency	Connection to Firebase Realtime Database
Steps	Admin opens the app and clicks on the course management card view. Then the admin clicks on the course in which he/she wishes to add a batch. He/she then clicks on the "+" button on the upper right corner of the toolbar. Admin is presented with a bottom sheet dialog to fill all the relevant details. Upon clicking Done, the

	batch is added
Expected Result	Batch is added
Actual Result	Previous Batches are deleted
Estimated Time	30 seconds, depends on admin
Status	Fail
Notes	If there exists batches in course then first get those batches in an Array List and then add a new batch

Test Case ID.	23
Priority	Medium
Test Title	Adding Batches
Test Description	This test case checks whether a course is added or not
Dependency	Connection to Firebase Realtime Database
Steps	Admin opens the app and clicks on the course management card view. Then the admin clicks on the course in which he/she wishes to add a batch. He/she then clicks on the "+" button on the upper right corner of the toolbar. Admin is presented with a bottom sheet dialog to fill all the relevant details. Upon clicking Done, the batch is added
Expected Result	Batch is added
Actual Result	Batch created
Estimated Time	30 seconds, depends on admin
Status	Pass

Notes	
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Test Case ID.	24
Priority	Medium
Test Title	Viewing Batches
Test Description	This test course checks if a batch can be viewed upon successful creation
Dependency	Connection to Firebase Realtime Database
Steps	Admin opens the app and clicks on the course management card view and the list of courses is displayed. Then he/she selects a course and then the list of batches is displayed
Expected Result	Batches List is retrieved
Actual Result	Batches Retrieved
Estimated Time	2 seconds, depends on internet
Status	Pass
Notes	

- Module : Student Management

Design & Execution Date : 27/09/2021 - 30/09/2021

Test Case ID.	25
Priority	Medium
Test Title	Adding Students
Test Description	This test case checks whether a course is

	added or not
Dependency	Connection to Firebase Realtime Database
Steps	Admin opens the app and clicks on the course management card view. Then the admin clicks on the course in which he/she wishes to add a batch. He/she then clicks on the batch in which they want to add a student. He/she then clicks on the "+" button on the upper right corner of the toolbar. Admin is presented with a bottom sheet dialog to fill all the relevant details. Upon clicking Done, the student is added
Expected Result	Student is added
Actual Result	Loading dialog doesn't disappear
Estimated Time	2 min, depends on the user
Status	Fail
Notes	Email already exists, check for validations

Test Case ID.	26
Priority	Medium
Test Title	Adding Students
Test Description	This test case checks whether a course is added or not
Dependency	Connection to Firebase Realtime Database
Steps	Admin opens the app and clicks on the course management card view. Then the admin clicks on the course in which he/she wishes to add a batch. He/she then clicks on the batch in

	which they want to add a student. He/she then clicks on the "+" button on the upper right corner of the toolbar. Admin is presented with a bottom sheet dialog to fill all the relevant details. Upon clicking Done, the student is added
Expected Result	Student is added
Actual Result	Student not added
Estimated Time	2 min, depends on the user
Status	Fail
Notes	Roll no. already exists. Show error dialog.

Test Case ID.	27
Priority	Medium
Test Title	Adding Students
Test Description	This test case checks whether a course is added or not
Dependency	Connection to Firebase Realtime Database
Steps	Admin opens the app and clicks on the course management card view. Then the admin clicks on the course in which he/she wishes to add a batch. He/she then clicks on the batch in which they want to add a student. He/she then clicks on "+" button on the upper right corner of the toolbar. Admin is presented with a bottom sheet dialog to fill all the relevant details. Upon clicking Done, the student is added

Expected Result	Student is added
Actual Result	Students overridden
Estimated Time	2 min, depends on the user
Status	Fail
Notes	Check just like batches if a list of students exists or not. If it exists, then retrieve and then add a student in that list, otherwise initialise an empty array list.

Test Case ID.	28
Priority	Medium
Test Title	Adding Students
Test Description	This test case checks whether a student is added or not
Dependency	Connection to Firebase Realtime Database
Steps	Admin opens the app and clicks on the course management card view. Then the admin clicks on the course in which he/she wishes to add a batch. He/she then clicks on the batch in which they want to add a student. He/she then clicks on "+" button on the upper right corner of the toolbar. Admin is presented with a bottom sheet dialog to fill all the relevant details. Upon clicking Done, the student is added
Expected Result	Student is added
Actual Result	Student created
Estimated Time	2 min, depends on the user

Status	Pass
Notes	-

Test Case ID.	29
Priority	Medium
Test Title	Viewing Students
Test Description	This test course checks if a student can be viewed upon successful creation
Dependency	Connection to Firebase Realtime Database
Steps	Admin opens the app and clicks on the course management card view and the list of courses is displayed. Then he/she selects a course and then the list of batches is displayed. Upon clicking a batch, a list of students is displayed
Expected Result	Students List is retrieved
Actual Result	Students Retrieved
Estimated Time	2 seconds, depends on internet
Status	Pass
Notes	

Test Case ID.	30
Priority	Low
Test Title	Operations on Students
Test Description	This test case checks if a student can be called



	via the phone's menu menu
Dependency	Connection to Firebase Realtime Database
Steps	Admin opens the students list and then select a student and in popup menu, he/she clicks on call
Expected Result	Call made successfully
Actual Result	App crashes
Estimated Time	1 second
Status	Fail
Notes	Ask for phone's permission in Android Manifest file

Test Case ID.	31
Priority	Low
Test Title	Operations on Students
Test Description	This test case checks if a student can be called via the phone's menu menu
Dependency	Connection to Firebase Realtime Database
Steps	Admin opens the students list and then select a student and in popup menu, he/she clicks on call
Expected Result	Call made successfully
Actual Result	Number empty
Estimated Time	1 second
Status	Fail

Notes	Pass the phone string in the calling intent
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Test Case ID.	32
Priority	Low
Test Title	Operations on Students
Test Description	This test case checks if a student can be called via the phone's menu menu
Dependency	Connection to Firebase Realtime Database
Steps	Admin opens the students list and then select a student and in popup menu, he/she clicks on call
Expected Result	Call made successfully
Actual Result	Call made
Estimated Time	1 second
Status	Pass
Notes	

Test Case ID.	33
Priority	Low
Test Title	Operations on Students
Test Description	This test case checks if a student can be made a whatsapp message
Dependency	Connection to Firebase Realtime Database
Steps	Admin opens the students list and then select a student and in popup menu, he/she clicks on

	whatsapp
Expected Result	Whatsapp opened successfully
Actual Result	App crashes
Estimated Time	1 second
Status	Fail
Notes	Whatsapp intent is wrong. Make sure the correct package is called

Test Case ID.	34
Priority	Low
Test Title	Operations on Students
Test Description	This test case checks if a student can be called via the phone's menu menu
Dependency	Connection to Firebase Realtime Database
Steps	Admin opens the students list and then select a student and in popup menu, he/she clicks on whatsapp
Expected Result	Whatsapp opened successfully
Actual Result	Nothing happens
Estimated Time	1 second
Status	Fail
Notes	Intent not called properly

Test Case ID.	35
Priority	Low

Test Title	Operations on Students
Test Description	This test case checks if a student can be called via the phone's menu menu
Dependency	Connection to Firebase Realtime Database
Steps	Admin opens the students list and then select a student and in popup menu, he/she clicks on whatsapp
Expected Result	Whatsapp opened successfully
Actual Result	Whatsapp home is opened instead of student
Estimated Time	1 second
Status	Fail
Notes	Pass the parameters such as phone no. to the intent

Test Case ID.	36
Priority	Low
Test Title	Operations on Students
Test Description	This test case checks if a student can be called via the phone's menu menu
Dependency	Connection to Firebase Realtime Database
Steps	Admin opens the students list and then select a student and in popup menu, he/she clicks on whatsapp
Expected Result	Whatsapp opened successfully
Actual Result	Success

Estimated Time	1 second
Status	Pass
Notes	

Test Case ID.	37
Priority	Medium
Test Title	Operations on Students
Test Description	This test case checks whether a student can be deleted or not
Dependency	Connection to Firebase Realtime Database
Steps	Admin opens the students list and then select a student and in popup menu, he/she clicks on delete
Expected Result	Student deleted
Actual Result	Another student is deleted instead of desired one
Estimated Time	500ms
Status	Fail
Notes	Index the data properly

Test Case ID.	38
Priority	Medium
Test Title	Operations on Students
Test Description	This test case checks whether a student can be deleted or not

Dependency	Connection to Firebase Realtime Database
Steps	Admin opens the students list and then select a student and in popup menu, he/she clicks on delete
Expected Result	Student deleted
Actual Result	Index out of Bound Error
Estimated Time	500ms
Status	Fail
Notes	When the data is deleted, make sure you update it accordingly. In this case only one student is created and was deleted and then when updating UI, index 0 was not found and hence the app crashed.

Test Case ID.	39
Priority	Medium
Test Title	Operations on Students
Test Description	This test case checks whether a student can be deleted or not
Dependency	Connection to Firebase Realtime Database
Steps	Admin opens the students list and then select a student and in popup menu, he/she clicks on delete
Expected Result	Student deleted
Actual Result	App crashes
Estimated Time	500ms

Status	Fail
Notes	Path is wrong. Don't try to go down the student path. Go to the course and then the selected batch and then to the selected student. Batches and Students list are array lists. So, access them and then update the course path

Test Case ID.	40
Priority	Medium
Test Title	Operations on Students
Test Description	This test case checks whether a student can be edited or not
Dependency	Connection to Firebase Realtime Database
Steps	Admin opens the students list and then select a student and in popup menu, he/she clicks on edit
Expected Result	Student edited
Actual Result	App doesn't update its view
Estimated Time	Depends on admin
Status	Fail
Notes	Update the recycler view

Test Case ID.	41
Priority	Medium
Test Title	Operations on Students
Test Description	This test case checks whether a student can be

	edited or not
Dependency	Connection to Firebase Realtime Database
Steps	Admin opens the students list and then select a student and in popup menu, he/she clicks on edit
Expected Result	Student edited
Actual Result	Successfully edited
Estimated Time	Depends on admin
Status	Pass
Notes	

- Module : Teachers Management

Design & Execution Date : 01/10//2021 - 02/10/2021

Test Case ID.	42
Priority	High
Test Title	Adding Teachers
Test Description	This test case checks whether teachers can be added or not
Dependency	Connection to Realtime Database and internet
Steps	Admin opens the app and clicks on Teachers card view and then on "+" button on top right corner of toolbar
Expected Result	Teacher Added
Actual Result	Success
Estimated Time	1 min, depends on admin



Status	Pass
Notes	

Test Case ID.	43
Priority	High
Test Title	Viewing Teachers
Test Description	This test case checks whether teacher list can be viewed or not
Dependency	Connection to Realtime Database and internet
Steps	Admin opens the app and clicks on Teachers card view
Expected Result	Teacher List retrieved
Actual Result	Success
Estimated Time	1 second
Status	Pass
Notes	

- Module : Course Structures Management

Design & Execution Date : 04/10/2021

Test Case ID.	44
Priority	High
Test Title	Creating Course Structures
Test Description	This test case checks whether a course structure is able to be created successfully or not

Dependency	Connection to Realtime Database and internet
Steps	Admin opens the app and clicks on Course Management and then clicks on the Course Management button in a course cardview which opens up Course Structure Fragment. Admin then clicks on the "+" button to create it.
Expected Result	Course Structure Added
Actual Result	App Crashed
Estimated Time	20 seconds, depends on the admin
Status	Fail
Notes	If there is not a single structure in the course then first initialize a empty Array List and then add structures

Test Case ID.	45
Priority	High
Test Title	Creating Course Structures
Test Description	This test case checks whether a course structure is able to be created successfully or not
Dependency	Connection to Realtime Database and internet
Steps	Admin opens the app and clicks on Course Management and then clicks on the Course Management button in a course cardview which opens up Course Structure Fragment. Admin then clicks on the "+" button to create it.

Expected Result	Course Structure Added
Actual Result	Added Successfully
Estimated Time	20 seconds, depends on the admin
Status	Pass
Notes	-

- Module : Semester Management

Design & Execution Date : 06/10/2021

Test Case ID.	46
Priority	High
Test Title	Creating Semesters
Test Description	This test case checks whether semesters are created or not
Dependency	Connection to the Realtime Database and internet
Steps	Admin opens the app and clicks on Course Management > Course > Course Structure > Semesters > Add (+) Button on toolbar
Expected Result	Semesters Added Successfully
Actual Result	Semester starting from 0
Estimated Time	1 second, automatically generated
Status	Fail
Notes	Add + 1 to the semester.

Test Case ID.	47
Priority	High
Test Title	Creating Semesters
Test Description	This test case checks whether semesters are created or not
Dependency	Connection to the Realtime Database and internet
Steps	Admin opens the app and clicks on Course Management > Course > Course Structure > Semesters > Add (+) Button on toolbar
Expected Result	Semesters Added Successfully
Actual Result	Success
Estimated Time	1 second, automatically generated
Status	Pass
Notes	-

- Module : Subjects Management

Design & Execution Date : 07/10/2021 - 08/10/2021

Test Case ID.	48
Priority	High
Test Title	Creating Subjects
Test Description	This test case checks whether subjects are created or not

Dependency	Connection to the Realtime Database and internet
Steps	Admin opens the app and clicks on Course Management > Course > Course Structure > Semesters > Subjects > Add (+) Button on toolbar
Expected Result	Subjects Added successfully
Actual Result	Success
Estimated Time	3-4 mins, depending on admin
Status	Pass
Notes	-

Test Case ID.	49
Priority	High
Test Title	Viewing Semesters & Subjects
Test Description	This test case checks whether semesters and subjects can be viewed easily and user can navigate between them easily
Dependency	Connection to the Realtime Database and internet
Steps	Admin opens the app and clicks on Course Management > Course > Course Structure > Semesters & Subjects
Expected Result	Semesters and Subjects easily retrieved and shown
Actual Result	Success
Estimated Time	2 seconds, depends on internet

Status	Pass
Notes	-

- Module : Timetable Management

Design & Execution Date : 10/10/2021 - 12/10/2021

Test Case ID.	50
Priority	High
Test Title	Creating Timetable
Test Description	This test case checks whether timetables can be easily created or not
Dependency	Connection to the Realtime Database and internet and teacher is created
Steps	Admin clicks on Timetable card view in home screen and then clicks on "+" button in timetable Fragment and then after successfully creating timetable, he/she adds subjects in the weeks model and assigns every subject to a teacher
Expected Result	Timetable created
Actual Result	Timetable was created but couldn't add subjects as there was no plus menu
Estimated Time	5-6 mins depending on the admin
Status	Fail
Notes	Inflate add menu in subjects fragment

Test Case ID.	51
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Priority	High
Test Title	Creating Timetable
Test Description	This test case checks whether timetables can be easily created or not
Dependency	Connection to the Realtime Database and internet and teacher is created
Steps	Admin clicks on Timetable card view in home screen and then clicks on "+" button in timetable Fragment and then after successfully creating timetable, he/she adds subjects in the weeks model and assigns every subject to a teacher
Expected Result	Timetable created
Actual Result	When ticking the checkbox of practical, engineering activity edit text not shown
Estimated Time	5-6 mins depending on the admin
Status	Fail
Notes	Implement onChecked Listener

Test Case ID.	52
Priority	High
Test Title	Creating Timetable
Test Description	This test case checks whether timetables can be easily created or not
Dependency	Connection to the Realtime Database and internet and teacher is created
Steps	Admin clicks on Timetable card view in home

	screen and then clicks on "+" button in timetable Fragment and then after successfully creating timetable, he/she adds subjects in the weeks model and assigns every subject to a teacher
Expected Result	Timetable created
Actual Result	Expandable Menu not working
Estimated Time	5-6 mins depending on the admin
Status	Fail
Notes	Use isExpanded() method to toggle the behaviour

Test Case ID.	53
Priority	High
Test Title	Creating Timetable
Test Description	This test case checks whether timetables can be easily created or not
Dependency	Connection to the Realtime Database and internet and teacher is created
Steps	Admin clicks on Timetable card view in home screen and then clicks on "+" button in timetable Fragment and then after successfully creating timetable, he/she adds subjects in the weeks model and assigns every subject to a teacher
Expected Result	Timetable created
Actual Result	App Crashes upon adding a subject



Estimated Time	5-6 mins depending on the admin
Status	Fail
Notes	If there is not a single structure in the course then first initialize a empty Array List and then add structures

Test Case ID.	54
Priority	High
Test Title	Creating Timetable
Test Description	This test case checks whether timetables can be easily created or not
Dependency	Connection to the Realtime Database and internet and teacher is created
Steps	Admin clicks on Timetable card view in home screen and then clicks on "+" button in timetable Fragment and then after successfully creating timetable, he/she adds subjects in the weeks model and assigns every subject to a teacher
Expected Result	Timetable created
Actual Result	Success
Estimated Time	5-6 mins depending on the admin
Status	Pass
Notes	

Test Case ID.	55
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Priority	High
Test Title	Viewing Timetable
Test Description	This test case checks whether a timetable can be viewed in day, 3 days, weeks, month and schedule mode
Dependency	Connection to the Realtime Database and internet and timetable is created
Steps	Student opens the app and the home screen is a calendar with filter options mainly day, 3 days, week, month and schedule
Expected Result	Student can view timetable schedule
Actual Result	App crashes
Estimated Time	100ms, depends on the internet
Status	Fail
Notes	Null Pointer exception, no timetable retrieved.

Test Case ID.	56
Priority	High
Test Title	Viewing Timetable
Test Description	This test case checks whether a timetable can be viewed in day, 3 days, weeks, month and schedule mode
Dependency	Connection to the Realtime Database and internet and timetable is created
Steps	Student opens the app and the home screen is a calendar with filter options mainly day, 3 days, week, month and schedule

Expected Result	Student can view timetable schedule
Actual Result	App crashes
Estimated Time	100ms, depends on the internet
Status	Fail
Notes	Can't draw canvas, enable appropriate libraries

Test Case ID.	57
Priority	High
Test Title	Viewing Timetable
Test Description	This test case checks whether a timetable can be viewed in day, 3 days, weeks, month and schedule mode
Dependency	Connection to the Realtime Database and internet and timetable is created
Steps	Student opens the app and the home screen is a calendar with filter options mainly day, 3 days, week, month and schedule
Expected Result	Student can view timetable schedule
Actual Result	Can't go in different modes
Estimated Time	100ms, depends on the internet
Status	Fail
Notes	Inflate the filter menu

Test Case ID.	58
Priority	High

Test Title	Viewing Timetable
Test Description	This test case checks whether a timetable can be viewed in day, 3 days, weeks, month and schedule mode
Dependency	Connection to the Realtime Database and internet and timetable is created
Steps	Student opens the app and the home screen is a calendar with filter options mainly day, 3 days, week, month and schedule
Expected Result	Student can view timetable schedule
Actual Result	Month view not working
Estimated Time	100ms, depends on the internet
Status	Fail
Notes	Cast the Day model into Month model

Test Case ID.	59
Priority	High
Test Title	Viewing Timetable
Test Description	This test case checks whether a timetable can be viewed in day, 3 days, weeks, month and schedule mode
Dependency	Connection to the Realtime Database and internet and timetable is created
Steps	Student opens the app and the home screen is a calendar with filter options mainly day, 3 days, week, month and schedule
Expected Result	Student can view timetable schedule

Actual Result	Timetable not showing
Estimated Time	100ms, depends on the internet
Status	Fail
Notes	Retrieve the timetable and cast accordingly

Test Case ID.	60
Priority	High
Test Title	Viewing Timetable
Test Description	This test case checks whether a timetable can be viewed in day, 3 days, weeks, month and schedule mode
Dependency	Connection to the Realtime Database and internet and timetable is created
Steps	Student opens the app and the home screen is a calendar with filter options mainly day, 3 days, week, month and schedule
Expected Result	Student can view timetable schedule
Actual Result	Clicking on any timetable schedule crashes the app
Estimated Time	100ms, depends on the internet
Status	Fail
Notes	Make an intent and then pass on the model to that intent and then display data accordingly. The views were not initialized, that's why crashed

Test Case ID.	61
Priority	High
Test Title	Viewing Timetable
Test Description	This test case checks whether a timetable can be viewed in day, 3 days, weeks, month and schedule mode
Dependency	Connection to the Realtime Database and internet and timetable is created
Steps	Student opens the app and the home screen is a calendar with filter options mainly day, 3 days, week, month and schedule
Expected Result	Student can view timetable schedule
Actual Result	Heavily dependent on a single activity
Estimated Time	100ms, depends on the internet
Status	Pass but not optimised
Notes	Make fragments and don't inflate the basic views programmatically

Test Case ID.	62
Priority	High
Test Title	Viewing Timetable
Test Description	This test case checks whether a timetable can be viewed in day, 3 days, weeks, month and schedule mode
Dependency	Connection to the Realtime Database and internet and timetable is created

Steps	Student opens the app and the home screen is a calendar with filter options mainly day, 3 days, week, month and schedule
Expected Result	Student can view timetable schedule
Actual Result	Success
Estimated Time	100ms, depends on the internet
Status	Pass
Notes	