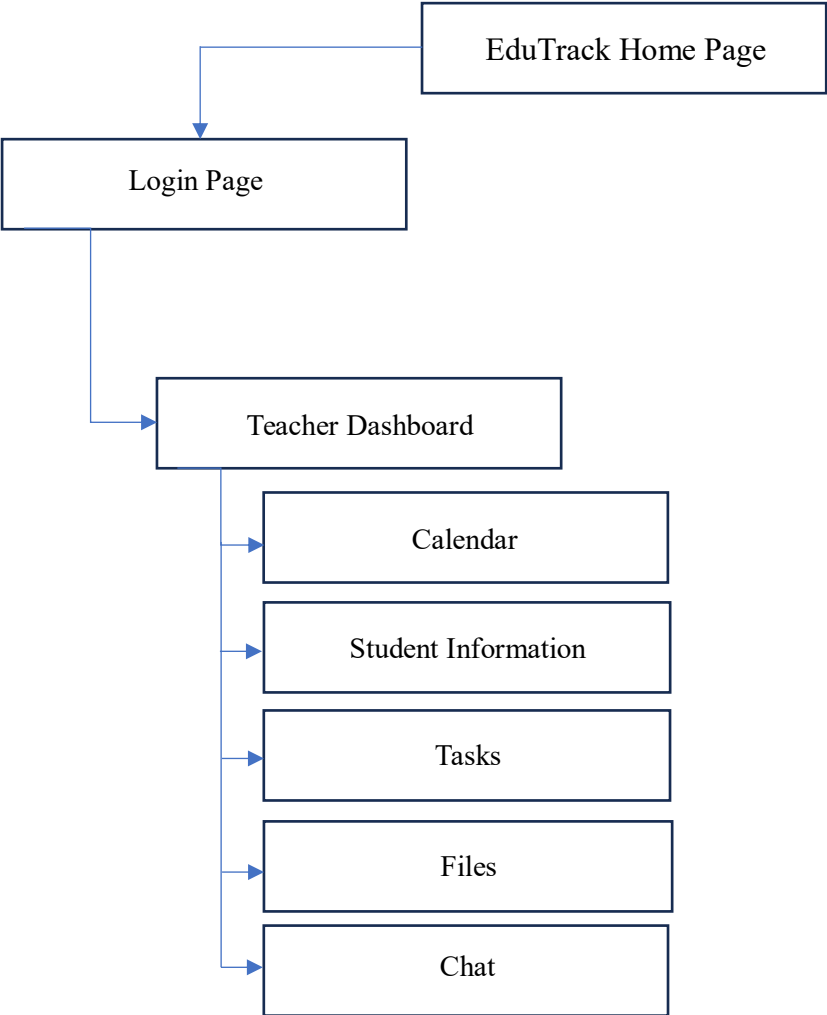


Criterion B – Design

Basic Structure of Program



Input Data (Login Page)

Data	Example
Email Password	Email: abc@gmail.com Password: Abc123 OR Email: alice@gmail.com Password: B.Alice03
Comments: If entered details are incorrect then an appropriate error message will be shown. If entered details are present within the database, then the Dashboard page will open up.	

Output Data (Login Page)

if email == email and password == password

- Dashboard page opened

else

- Error message shown

DASHBOARD PAGE

Input Data (Calendar – Adding and Editing Meeting Details)

Data	Example
Date – select on the calendar page Meeting Name – text field to enter name Student Name – select from dropdown list Start time – drop down for hour and minutes End time – drop down for hour and minutes	Date – 20/12/2024 Meeting Name – Conjugation of tenses Student Name – Alice Start time – 16:00 End time – 18:30
Comments: After date and time is inputted, existence of meeting will be reflected on the calendar. If a meeting has already been scheduled at this time, then an appropriate error message will be shown.	

Output Data (Calendar – Adding and Editing Meeting Details)

- Meeting will be added to database of student.
- Date on the calendar will be underlined, representing the presence of a meeting. When the line is clicked, the details of the meeting will be shown.
- Email is sent to the client, confirming the meeting and meeting details.
- Reminder of meeting will be sent to client through email and WhatsApp 30 minutes before scheduled time.

Input Data (Student Information – Adding and Editing Student Details)

Data	Example
First Name: text field to enter name Last Name: text field to enter name Email: text field to enter email in provided format Age: text field to enter age School Name: text field to enter school name Curriculum: text field to enter curriculum Parent Name: text field to enter name Parent Email: text field to enter email Parent Phone: text field to enter phone no. Address: text field to enter address	First Name: Alice Last Name: Brockwood Email: alice@gmail.com Age: 15 School Name: St. Mary's High School Curriculum: International Baccalaureate Parent Name: Sylvie Brockwood Parent Email: sylvie@gmail.com Parent Phone: 0528313829 Address: Villa 29, Wadi Al Safa community, Dubai, UAE
Comments: After all fields have been entered, the details will be reflected on the Student Information page and details will be stored in the student database. Details can be edited.	

Output Data (Student Information – Adding and Editing Student Details)

- Details will be stored on the student information database and will be reflected on the Student Information page.

Input Data (Tasks – Adding and Editing Task Details)

Data	Example
Student Name – click button from list given Task Name – text field to enter task name Deadline – text field to enter date and drop down for hour and minutes File Upload – drop box to upload files Completed – click button, Yes or No	Student Name – Alice Brockwood Task Name – Tenses and pronouns Deadline – 20/12/2024 , 15:00 File Upload – word document worksheet uploaded Completed - Yes
Comments: When task is created, it is under the Pending category. However, after deadline has passed, the task automatically shifts to Completed category.	

Output Data (Tasks – Adding and Editing Task Details)

- Tasks created will be entered into a Task database which differs for each student.
- Task will reflect on the Tasks page under the name of the chose child.

Input Data (File Upload – Adding and Deleting Files)

Data	Example
Student Name – click button from list given	Student Name – Alice Brockwood

File Name – text field to enter task name File Upload – drop box to upload files	File Name – Tenses Notes File Upload – word document worksheet uploaded
Comments: Only certain file types would be accepted such as png, doc, pdf etc.	

Output Data (File Upload – Adding and Deleting Files)

- Files uploaded will be added into a File database which differs for each student.
- Files will reflect on the Files page under the name of the child chosen.

Input Data (Fees – Adding and Editing Payment Details)

Data	Example
Student Name – click button from list given Fee Amount – text field to enter amount for payment Duration – text field to enter start and end dates in provided format Amount Paid – text field to enter amount for payment Paid – click button, Yes, No, Not complete	Student Name – Alice Brockwood Fee Amount – AED 1000 Duration – 20/01/2024 to 20/02/2024 Amount Paid – AED 50 Paid – Not complete
Comments: If start date entered is before end date, then appropriate error message will be shown. When file is created, it is under the Pending category. It will be shifted to completed only when full fee has been paid.	

Output Data (Fees – Adding and Editing Payment Details)

- Fees details will be added into a Fee database which is different for each student.
- Fees details will be reflected onto Fees page under the name of the chosen student.

if Fee Paid == Fee Amount

- For the Paid category, the Yes option will be selected automatically.

else if Fee Paid < Fee Amount and Fee Paid != 0

- For the Paid category, the Not Complete option will be selected automatically.

else

- For the Paid category, the No option will be selected automatically.

NOTE: WhatsApp will be integrated into the Chat Page.

GUI

Login Page

LOGIN

Email:

Password:

EXIT

LOGIN

Dashboard Page

DASHBOARD

LOGOUT

CALENDAR

STUDENT
INFORMATION

TASKS

CHAT

☐

☐

☐

☐

FILES

FEES

Calendar Page

CALENDAR

MONTH

Meeting Editor Page

Meeting Details

Meeting Name:

Student Name:

Choose Student Name

Start Time:




:

End Time:




:

DONE

Student Information Page

Classes	STUDENT INFORMATION
<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div>Full Name</div></div> <div><div>First Name:</div><div></div></div> <div><div>Last Name:</div><div></div></div> <div><div>Age:</div><div></div></div> <div><div>School Name:</div><div></div></div> <div><div>Curriculum:</div><div></div></div> <div><div>Grade:</div><div></div></div> <div><div>Email:</div><div></div></div> <div><div>Parent Name:</div><div></div></div> <div><div>Parent Email:</div><div></div></div> <div><div>Parent Phone:</div><div></div></div>
<div><div></div><div></div></div>	<div><div></div><div></div></div>

Tasks Page

Classes	TASKS
<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>	<div><div></div><div>Full Name</div></div> <div><div>Pending:</div><div></div></div> <div><div>Completed:</div><div></div><div></div><div></div><div></div><div></div><div></div></div>
<div><div></div><div></div></div>	<div><div></div><div></div></div>

Task Editor Page

Task Details

Task Name:

Files:

Choose File

Due Date:

/

/

End Time:

▽

:

▽

DONE


File Upload Page

Classes

FILES

File Editor Page

File Upload Details



File Name:

Files:


Choose File


DONE

Fees Page

Classes

FEES






Full Name


Pending:

Completed:



Fees Editor Page

Fee Details



Fee Amount:

AED

Fee Paid:

AED

Start Date:

/

/

End Date:

/

/

Paid:

YES

NO

NOT COMPLETE

DONE

Process Description

Dashboard
-calendar: JButton -studentInfo: JButton -tasks: JButton -files: JButton -fees: JButton -logout: JButton
-main() -calendarActionPerformed(evt: java.awt.event.ActionEvent) -studentInfoActionPerformed(evt: java.awt.event.ActionEvent) -tasksButtonActionPerformed(evt: java.awt.event.ActionEvent) -filesPassActionPerformed(evt: java.awt.event.ActionEvent) -feesPassActionPerformed(evt: java.awt.event.ActionEvent)

Login
-email: JTextField -pass: JPasswordField -exitButton: JButton -loginButton: JButton -home: JButton
-main() -passActionPerformed(evt: java.awt.event.ActionEvent) -emailActionPerformed(evt: java.awt.event.ActionEvent) -loginButtonActionPerformed(evt: java.awt.event.ActionEvent) -forgotPassActionPerformed(evt: java.awt.event.ActionEvent)

StudentInfo
-sName: JMenuBar -home: JButton
-main() --sNameActionPerformed(evt: java.awt.event.ActionEvent)

Calendar
-book: JButton -home: JButton
-main() -bookActionPerformed(evt: java.awt.event.ActionEvent)

Tasks
-sName: JMenuBar -home: JButton
-main() --sNameActionPerformed(evt: java.awt.event.ActionEvent)

Fees
-sName: JMenuBar -home: JButton
-main() --sNameActionPerformed(evt: java.awt.event.ActionEvent)

Files
-sName: JMenuBar -home: JButton
-main() --sNameActionPerformed(evt: java.awt.event.ActionEvent)

bookMeeting
-mName: JTextField -sName: JMenuBar -stHour: JMenuBar -stMins: JMenuBar -etHour: JMenuBar -etMins: JMenuBar -done: JButton -delete: JButton
-main() -doneActionPerformed(evt: java.awt.event.ActionEvent) -deleteActionPerformed(evt: java.awt.event.ActionEvent) -sNameActionPerformed(evt: java.awt.event.ActionEvent) -stHourActionPerformed(evt: java.awt.event.ActionEvent) -stMinsActionPerformed(evt: java.awt.event.ActionEvent) -etHouseActionPerformed(evt: java.awt.event.ActionEvent) -etMinsActionPerformed(evt: java.awt.event.ActionEvent)

editStudentInfo
-firstName: JTextField -lastName: JTextField -age: JTextField -schoolName: JTextField -curriculum: JTextField -grade: JTextField -parentName: JTextField -parentEmail: JTextField -parentPhone: JTextfield -adress: JTextField -edit: JButton -done: JButton
-main() -doneActionPerformed(evt: java.awt.event.ActionEvent) -editActionPerformed(evt: java.awt.event.ActionEvent) -firstNameActionPerformed(evt: java.awt.event.ActionEvent) -lastNameActionPerformed(evt: java.awt.event.ActionEvent) -ageActionPerformed(evt: java.awt.event.ActionEvent) -schoolNameActionPerformed(evt: java.awt.event.ActionEvent) -curriculumActionPerformed(evt: java.awt.event.ActionEvent) -gradeActionPerformed(evt: java.awt.event.ActionEvent) -emailActionPerformed(evt: java.awt.event.ActionEvent) -parentNameActionPerformed(evt: java.awt.event.ActionEvent) -parentEmailActionPerformed(evt: java.awt.event.ActionEvent) -parentPhoneActionPerformed(evt: java.awt.event.ActionEvent)

editFiles
-fileName: JTextfield -files: -doneActionPerformed(evt: java.awt.event.ActionEvent) -deleteActionPerformed(evt: java.awt.event.ActionEvent)
-main() --sNameActionPerformed(evt: java.awt.event.ActionEvent)

editTasks
-taskName: JTextField -file: ____ -dDate: JTextField -dMonth: JTextField -dYear: JTextField -dHour: JMenuBar -dMins: KMenuBar -completed: JButton -Ncompleted: JButton -edit: JButton -done: JButton
-main() -doneActionPerformed(evt: java.awt.event.ActionEvent) -editActionPerformed(evt: java.awt.event.ActionEvent) -completedActionPerformed(evt: java.awt.event.ActionEvent) -NcompeletedActionPerformed(evt: java.awt.event.ActionEvent) -taskNameActionPerformed(evt: java.awt.event.ActionEvent) -fileActionPerformed(evt: java.awt.event.ActionEvent) -stDateActionPerformed(evt: java.awt.event.ActionEvent) -stMonthlNameActionPerformed(evt: java.awt.event.ActionEvent) -stYearActionPerformed(evt: java.awt.event.ActionEvent) -stHourActionPerformed(evt: java.awt.event.ActionEvent) -stMinsActionPerformed(evt: java.awt.event.ActionEvent)

editFee
-feeAmount: JTextField -feePaid: JTextField -stDate: JTextField -stMonth: JTextField -stYear: JTextField -etDate: JTextField -etMonth: JTextField -etYear- JTextField -done: JButton -yes: JButton -no: JButton -notYet: JButton -delete: JButton
-main() -doneActionPerformed(evt: java.awt.event.ActionEvent) -yesActionPerformed(evt: java.awt.event.ActionEvent) -noActionPerformed(evt: java.awt.event.ActionEvent) -notYetActionPerformed(evt: java.awt.event.ActionEvent) -feeAmountActionPerformed(evt: java.awt.event.ActionEvent) -feePaidActionPerformed(evt: java.awt.event.ActionEvent)

Database Diagrams

Login	
Email	Text
Password	Text

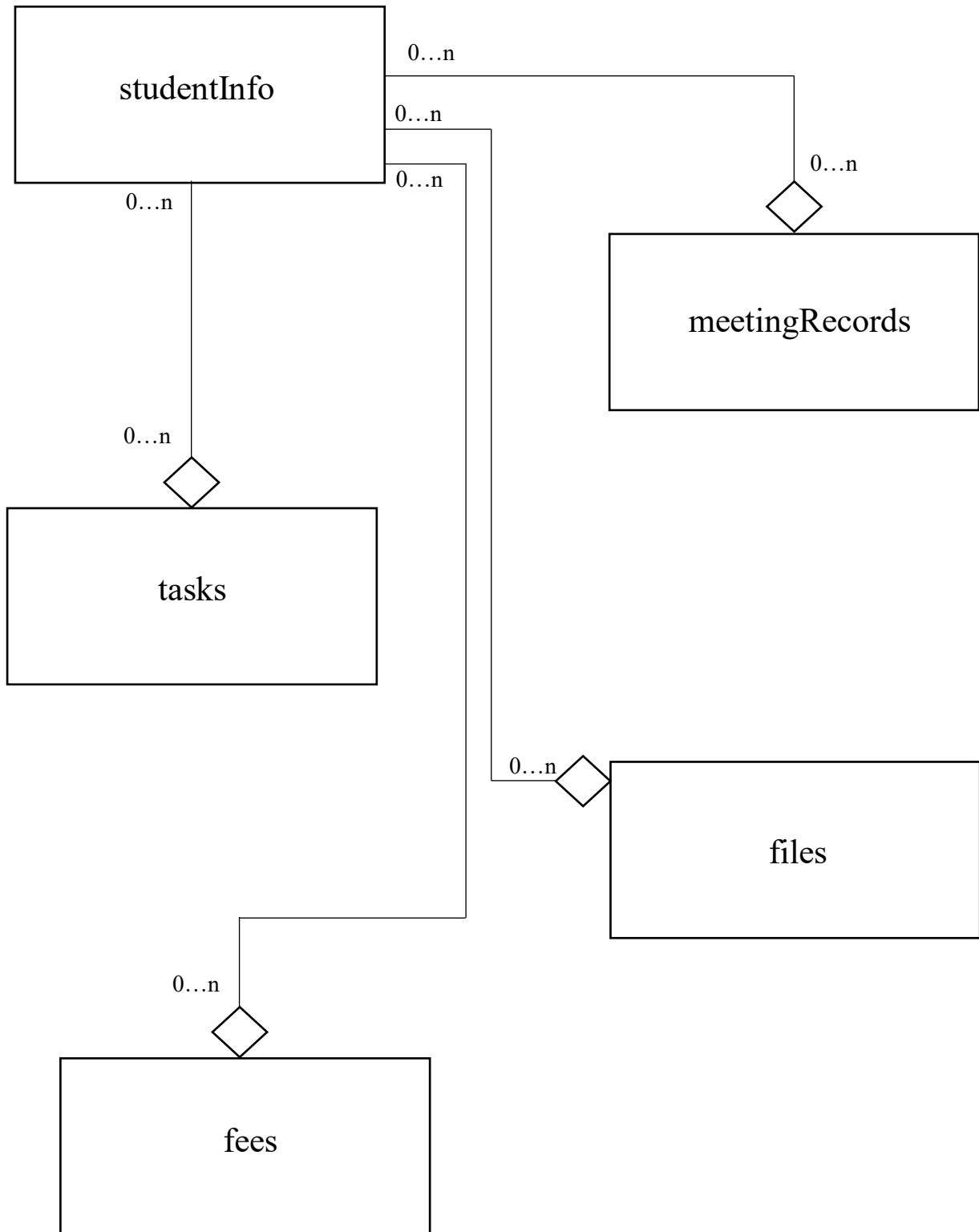
meetingRecords	
Student Name	Text
Meeting Name	Text
Start Time	Text
End Time	Text

tasks	
Student Name	Text
Task Name	Text
Due Date Time	Text
Completed	Integer

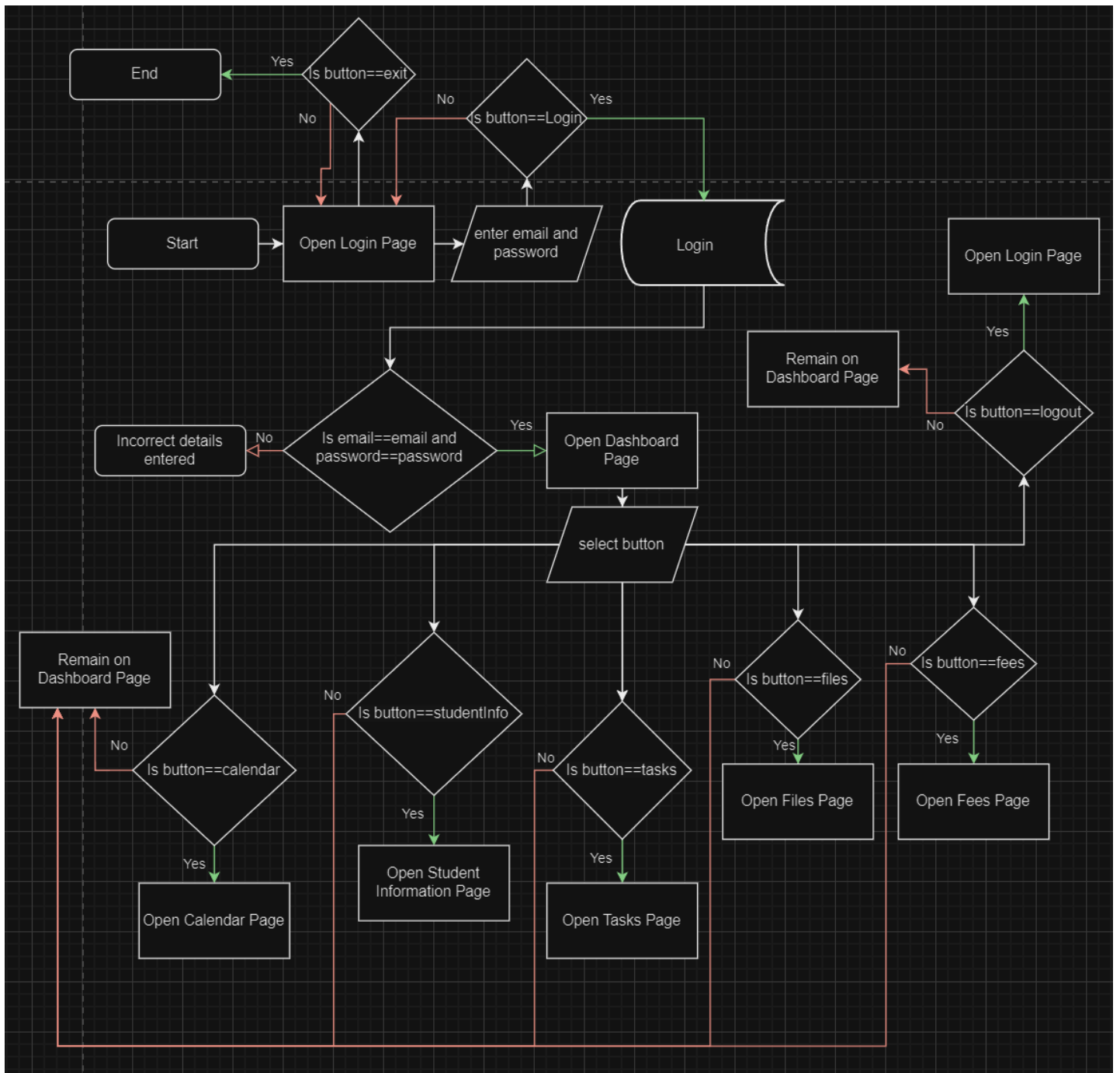
files	
Student Name	Text
File Name	Text
File	BLOB

studentInfo	
ID (primary key)	Integer
First Name	Text
Last Name	Text
Age	Integer
School Name	Text
Curriculum	Text
Grade	Integer
Email	Text
Parent Name	Text
Parent Email	Text
Parent Phone	Integer
Address	Text

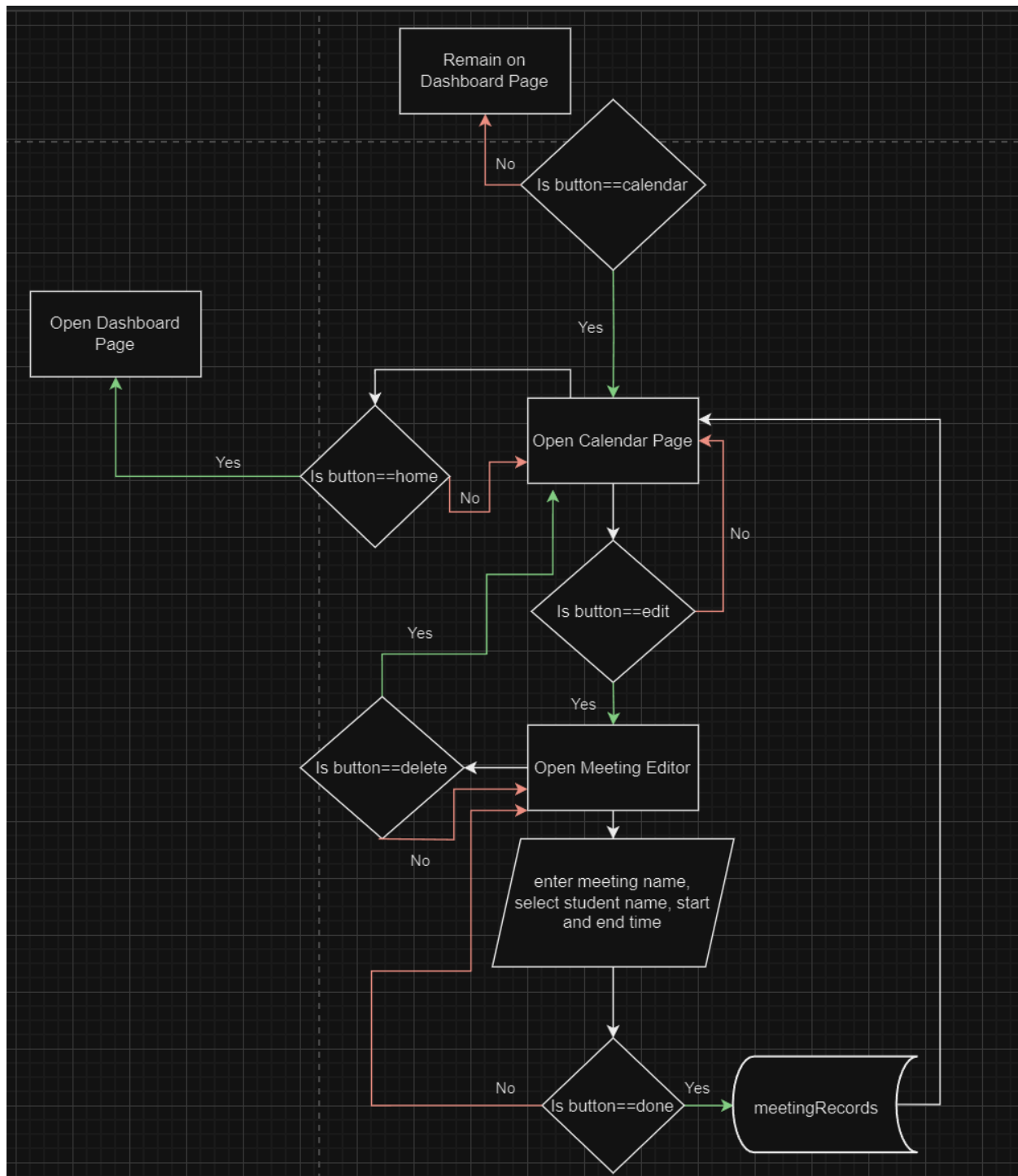
fees	
Student Name	Text
Total Amount	Numeric
Fee Paid	Numeric
Start Date	Text
End Date	Text
Paid	Integer



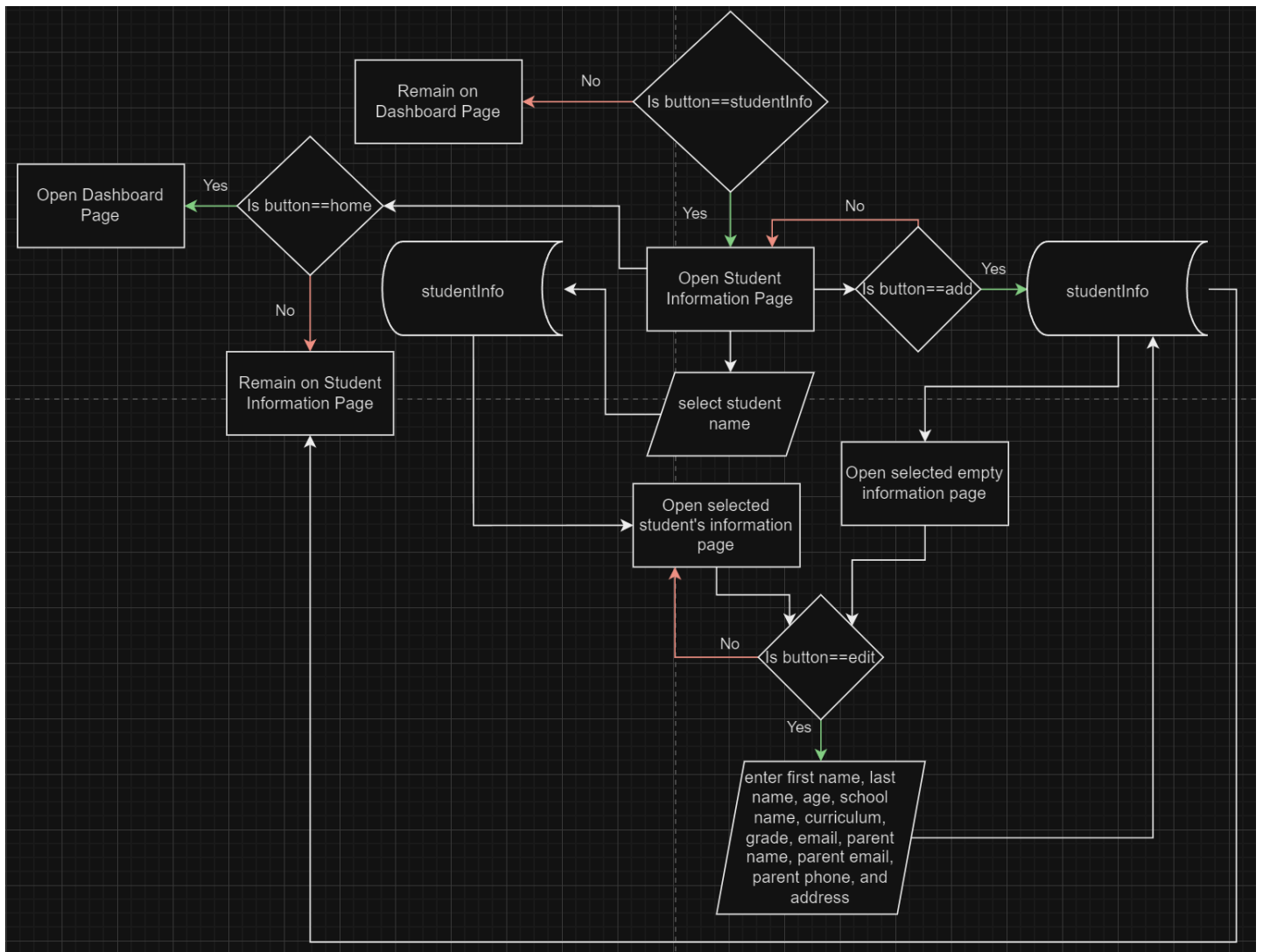
Process Descriptions



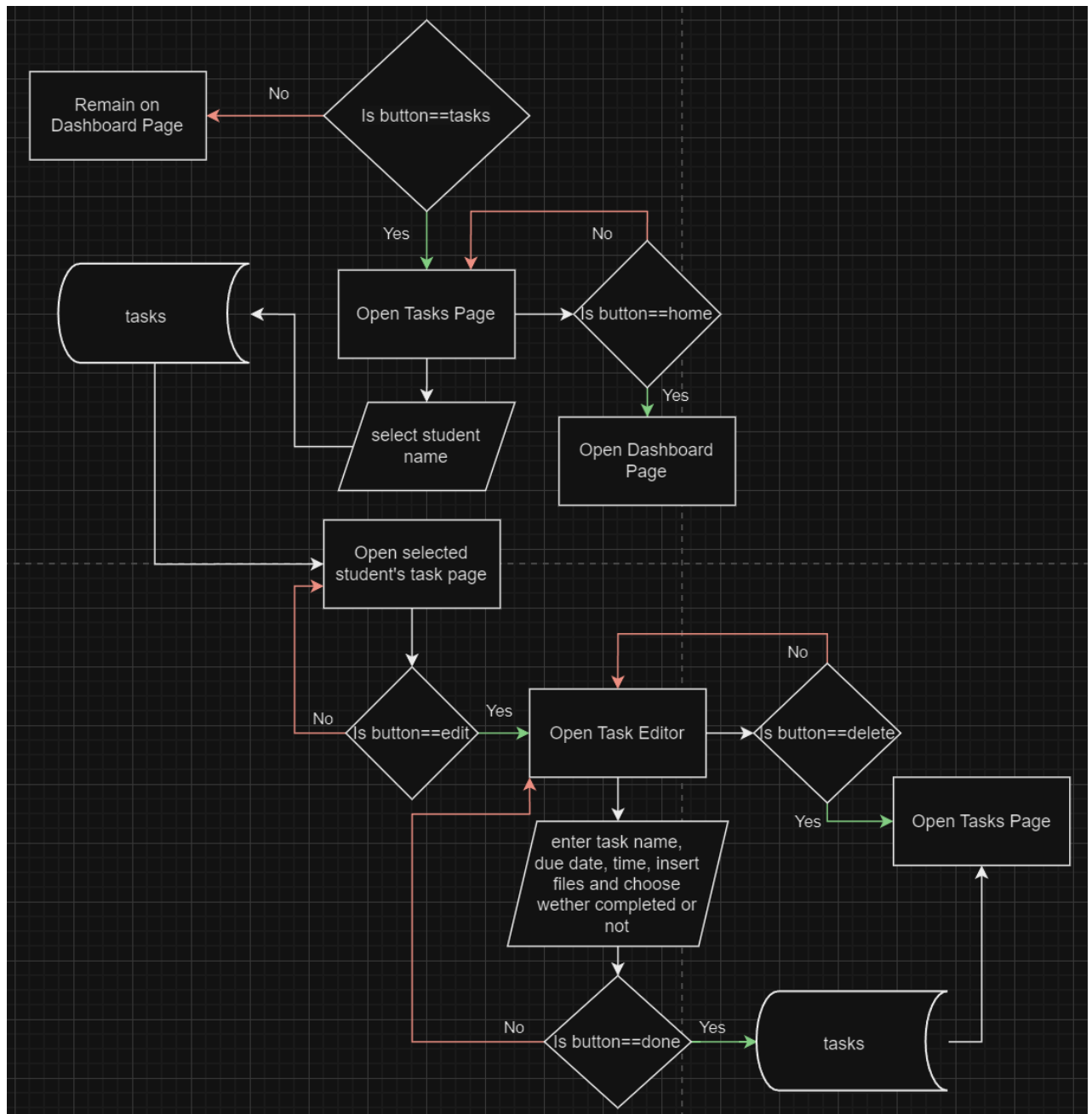
Calendar Page



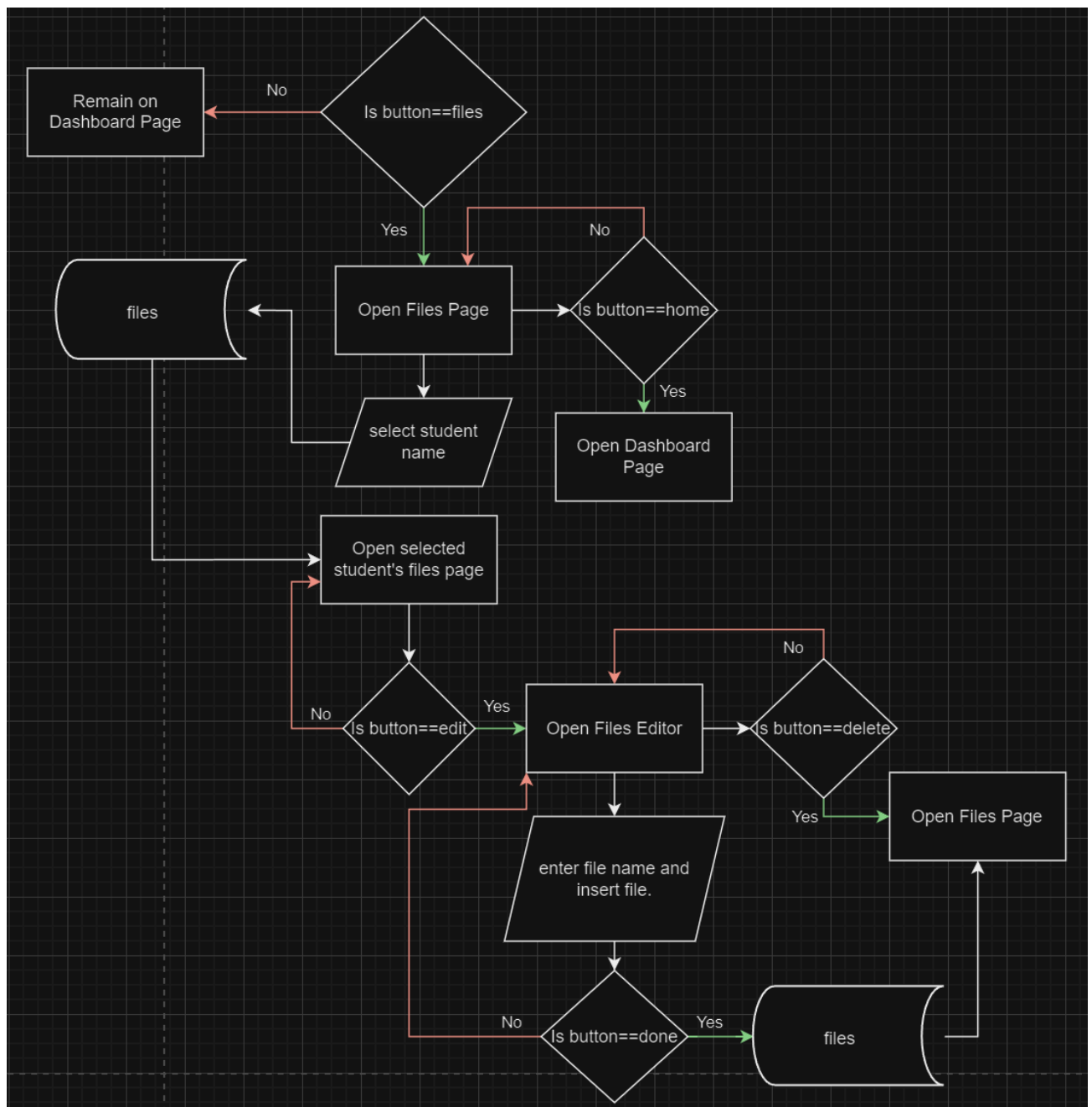
Student Information Page



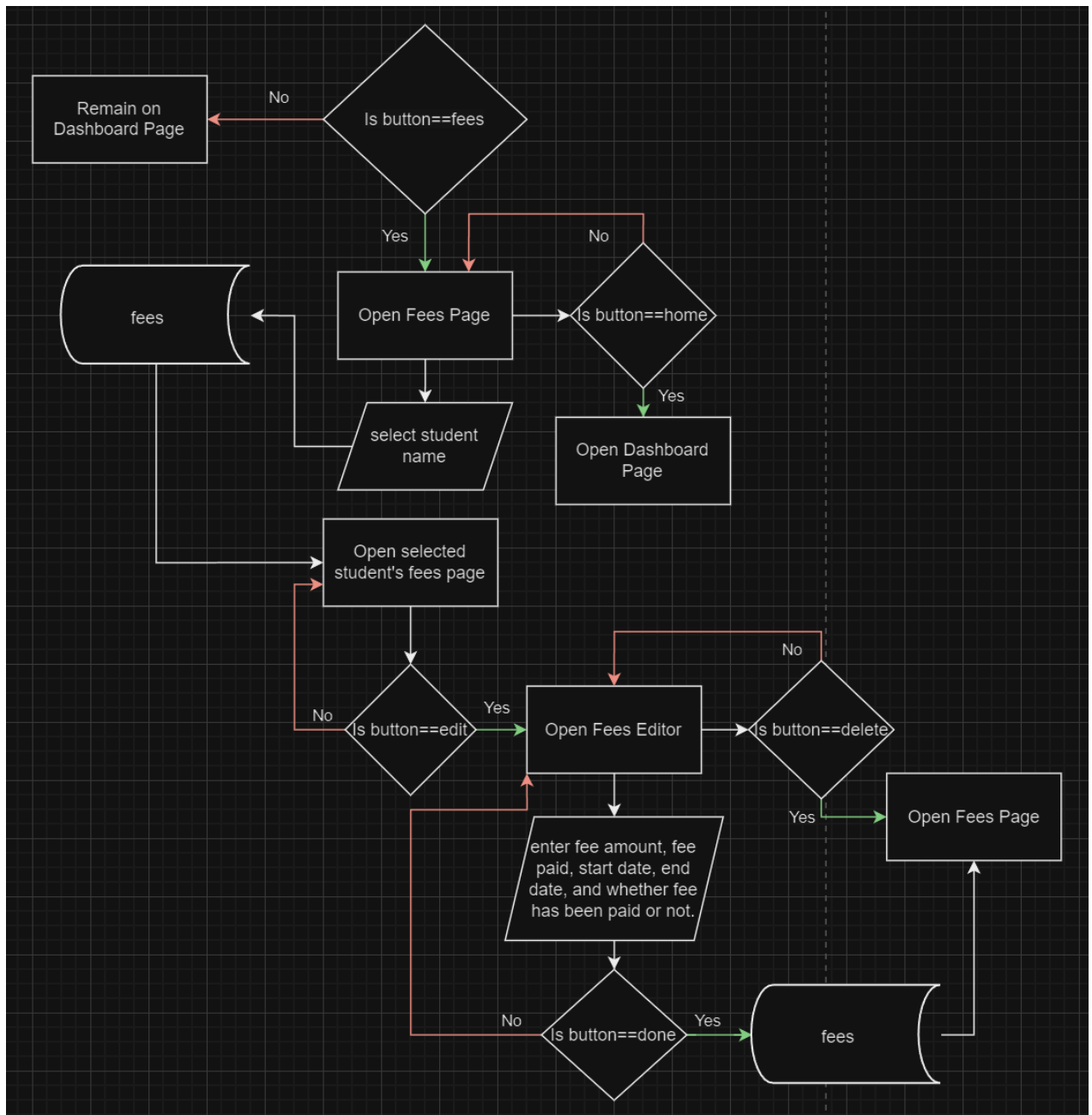
Tasks Page



Files Page



Fees Page



Testing Plan

Action Test	Method of Testing
Test if the program is working and main window appears on screen.	Double click on the program icon. Login page should open up.
Check if login page works properly.	Press the exit button to see if program is ended. Enter incorrect login details to see if appropriate error message is shown. Enter assigned login details and click login button to see if the dashboard page opens up.
Check if dashboard page works.	Click all 4 buttons to see if the respective page and GUIs are loaded. Attempt to chat on the WhatsApp integrated chat feature. Click on the logout button and see if login page is reopened.
Check if calendar page works.	Press the home button to exit to the dashboard page. Press the edit button and enter details into the meeting editor page. Press the done button once details have been entered and check the corresponding database for the new entry. Once more enter the details in the meeting editor page but press the delete button and see if calendar page reopens.
Check if student information page works.	Press the home button to exit to the dashboard page. Press the edit button and enter details into the assigned text boxes. Press the done button once details have been entered and check the corresponding database for the new entry or change.
Check if task page works.	Press the home button to exit to the dashboard page. Press the edit button and enter details into the task editor page. Press the done button once details have been entered and check the corresponding database for the new entry. Once more enter the details in the task editor page but press the delete button and see if task page reopens.
Check if files page works.	Press the home button to exit to the dashboard page. Press the edit button and enter details into the file editor page. Press the done button once details have been entered and check the corresponding database for the new entry. Once more enter the details in the file editor page but press the delete button and see if file page reopens.
Check if fees page works.	Press the home button to exit to the dashboard page. Press the edit button and

	enter details into the fees editor page. Press the done button once details have been entered and check the corresponding database for the new entry. Once more enter the details in the fees editor page but press the delete button and see if fees page reopens.
Check if WhatsApp chat feature works.	Navigate to the dashboard page and log into WhatsApp in the assigned chat area. Message a student and check on another device if the message has been reflected.
Check if email and WhatsApp reminders work.	Schedule a meeting and check WhatsApp and email 30 minutes before the scheduled time. A reminder message should be received on WhatsApp and a mail should be received on the client's email address.