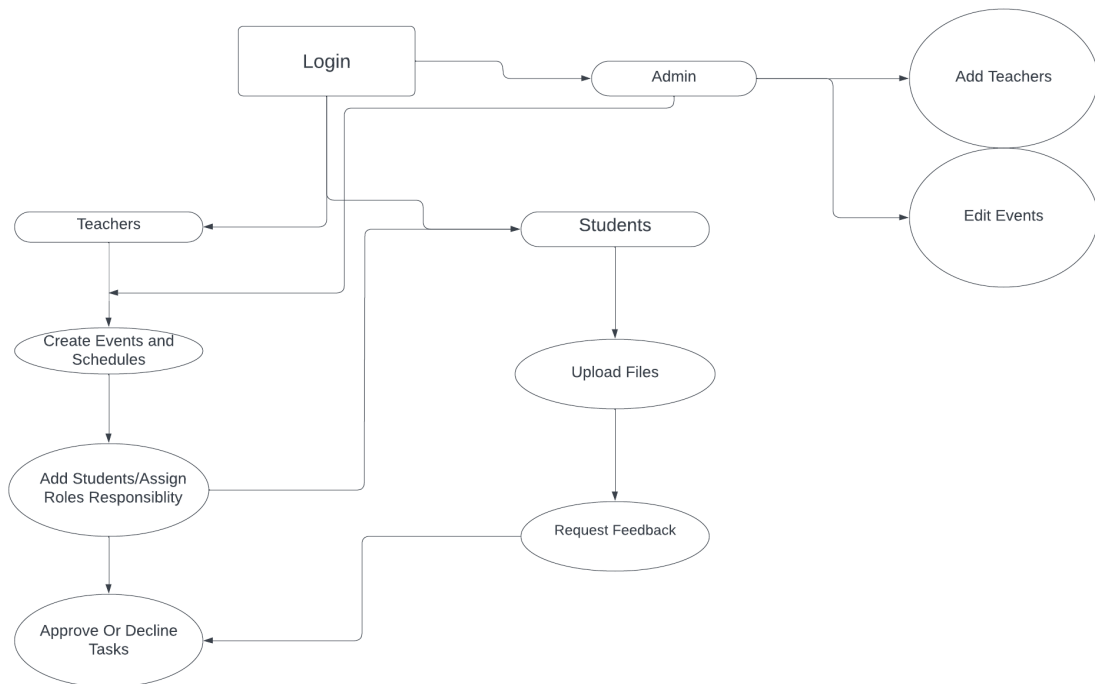


Flow Charts And System Design:	2
Flowcharts For Login	3
Flowchart For Role Functionalities	4
Create Events (Teacher/Admin)	4
Flowchart For assigning students events and responsibilities (Teacher/Admin)	5
Approval or Declining Of Task Flowchart (Teacher/Admin)	6
Add Teachers Flowchart (Admin)	7
Edit Events Flowchart (Admin)	8
Upload Files (Students)	8
Request Feedback (Students)	9
Database Overviews And Layout	11
Database Fields Structure Overview	11
Fields Related To Students	11
Fields Related To Teachers	11
Fields Related To Events	11
Fields Related To Users	11
Database Table Structures	12
User's Table	12
Students Table	12
Teachers Table	12
Events Table	12
Event Participation Table	13
Event Files Table	13
Feedback Table	13
ER Diagram (Entity Relationship Diagram)	14
GUI Design Briefs	15
Login Page	15
Admin Page	15
Dashboard	16
Add Teachers	16
Teachers Page	17
Create Events	17
Create Schedule	18
Provide Feedback	18
Students Page	19
Upload Files	19

Flow Charts And System Design:

Structural Diagram (overall view)



Functionalities Under Each Role:

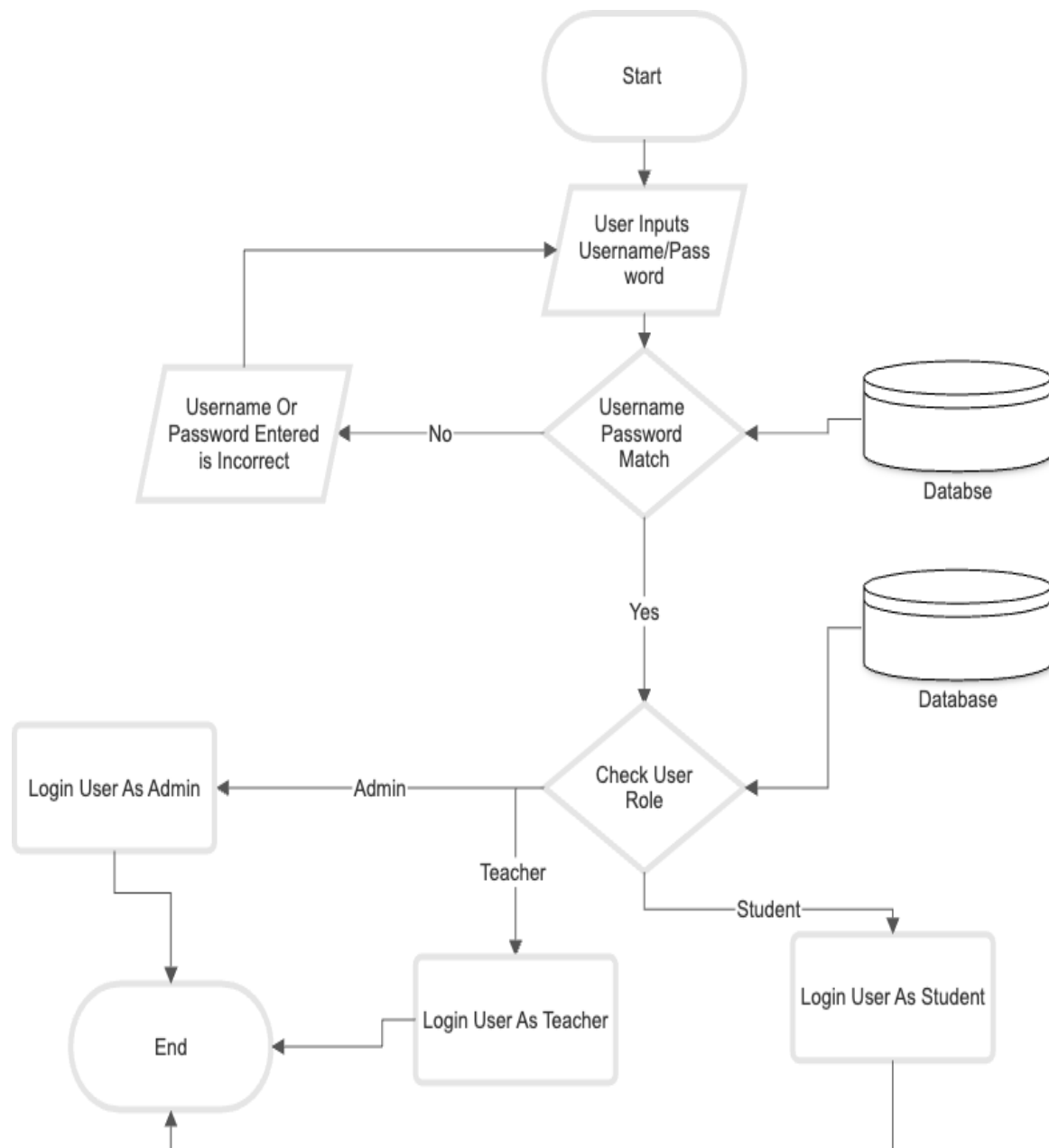
Admin: Admin will have all rights including teacher and student rights. Admin will be able to add teachers to the system and edit events.

1. Admins can add teachers (all users) to the database allowing them control over access permissions
2. Editing events as a function essentially allows admins to delete events from the software at any point in time or after the event has been finished.

Teachers: Teachers will be able to create events and create schedules for events. Teachers will assign students to particular events and give students particular roles and responsibilities. Teachers will also monitor student work

Students: Student will be able to view schedules and complete tasks for which they will upload files. Students will be able to request feedback on uploaded files.

Flowcharts For Login



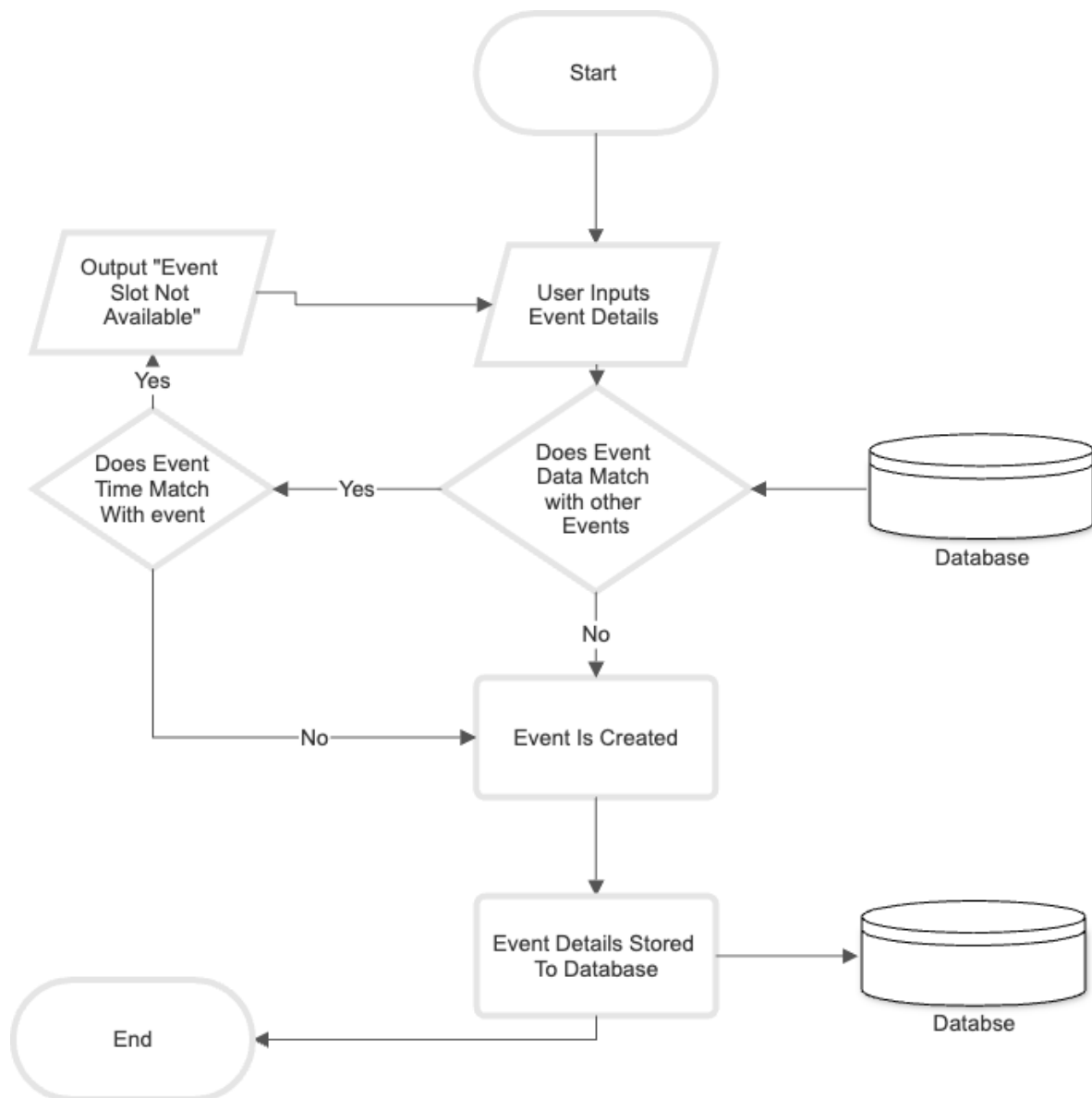
The program will access the database which stored user details including username, password and role.

The program will only login users based on their roles, this will prevent

- Unauthorised usage of system
- Accidental changes to events, schedules, etc.
- Malpractice

Flowchart For Role Functionalities

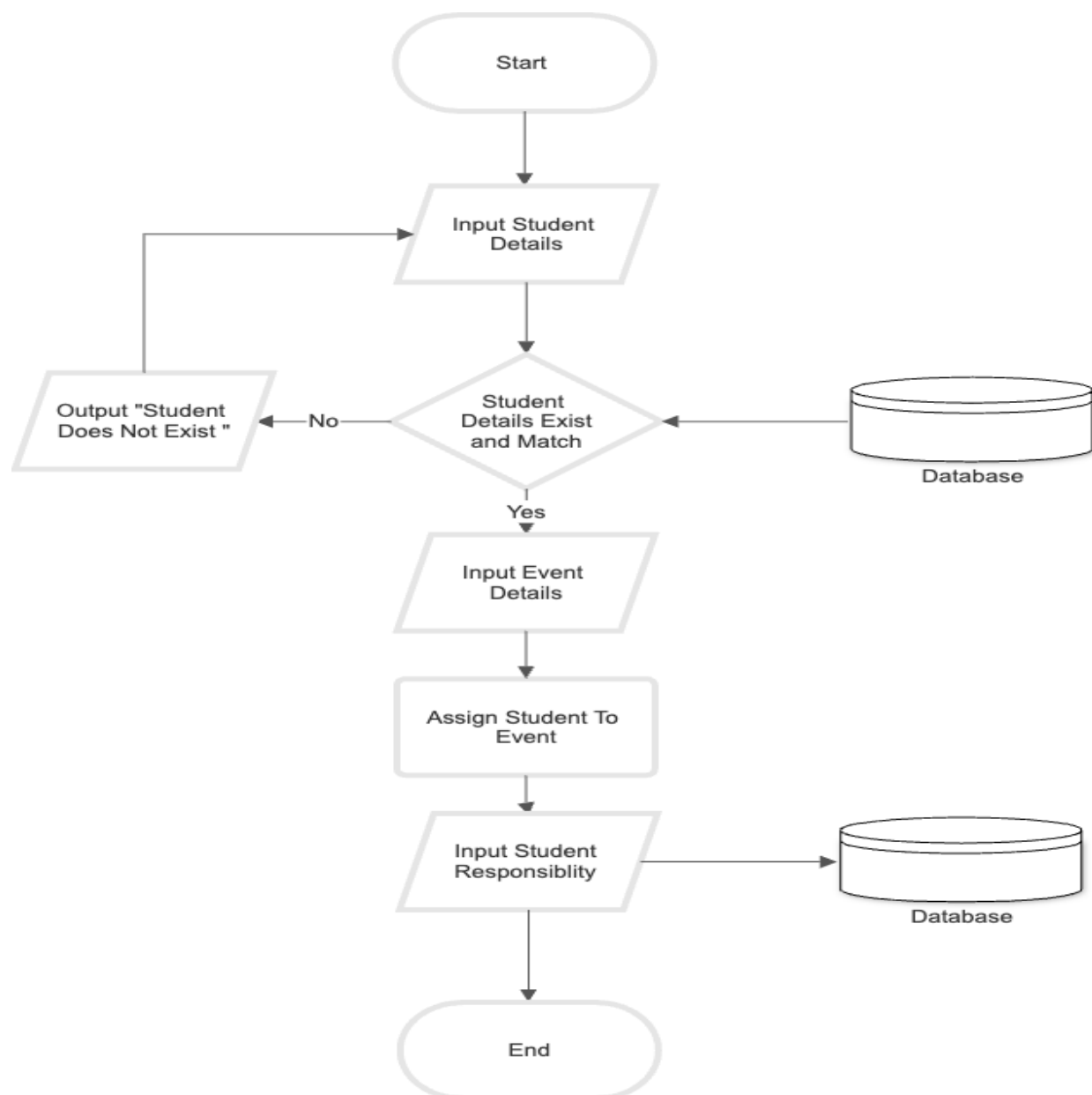
Create Events (Teacher/Admin)



The program has to receive input from the user and apply validation constraints in order to ensure the input can be used to create a valid output. The flowchart describes how the input regarding event details will first be validated and referenced from the database in order to ensure two events are not created for the same date and time.

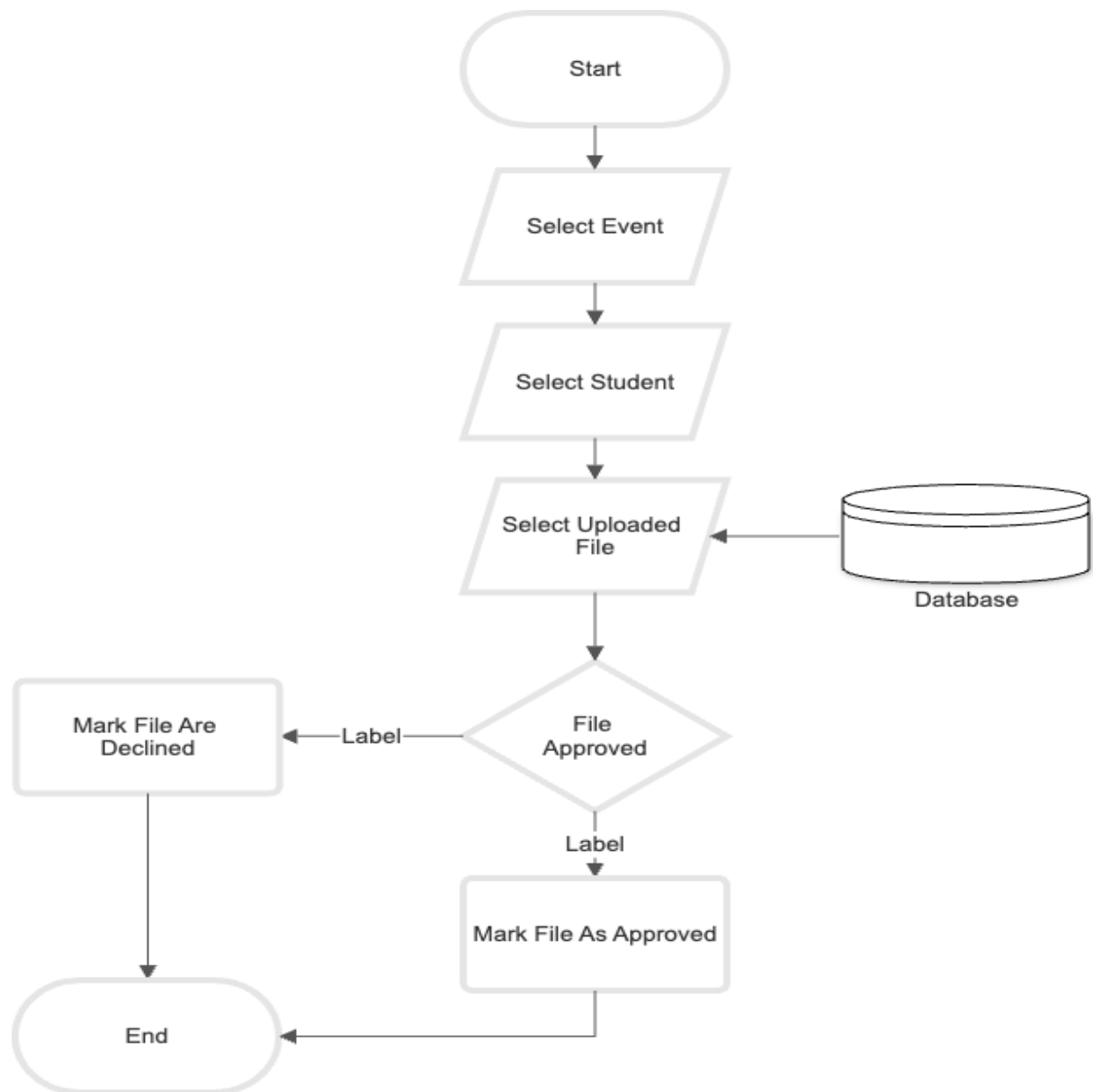
1. Data Is inputted
2. Data is double checked using the database
3. Successful request is completed and event details are added to the database

Flowchart For assigning students events and responsibilities (Teacher/Admin)



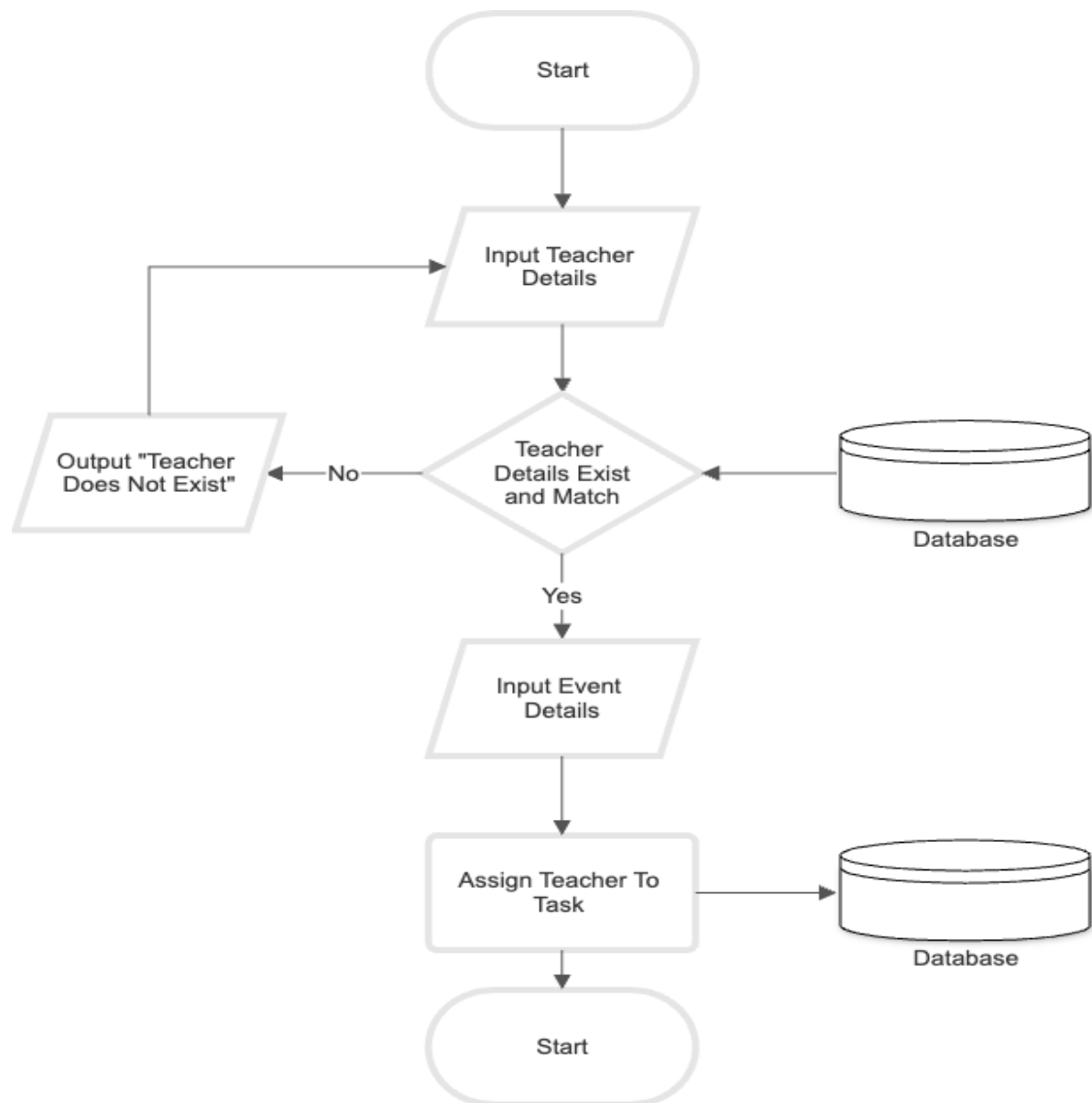
Teachers can input student details after fetching them from the database allowing them to accurately add student to already created events. All details would be stored in the database for reference in the future.

Approval or Declining Of Task Flowchart (Teacher/Admin)

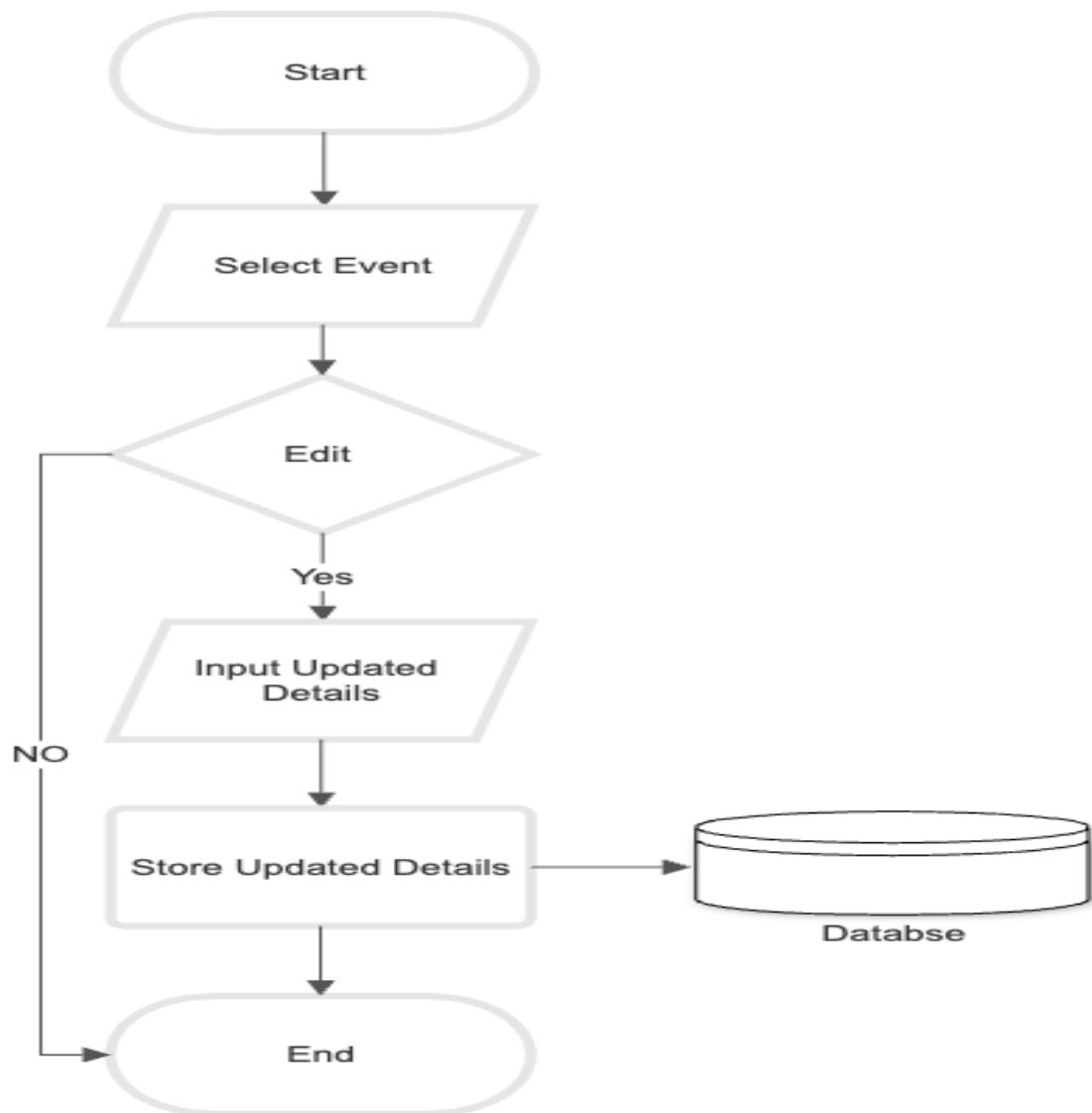


The Program will display events then assigned students and then uploaded files, this will provide the teachers and admins a structured view of the stored data to create abstraction. Each required input will have a sub procedure.

Add Teachers Flowchart (Admin)

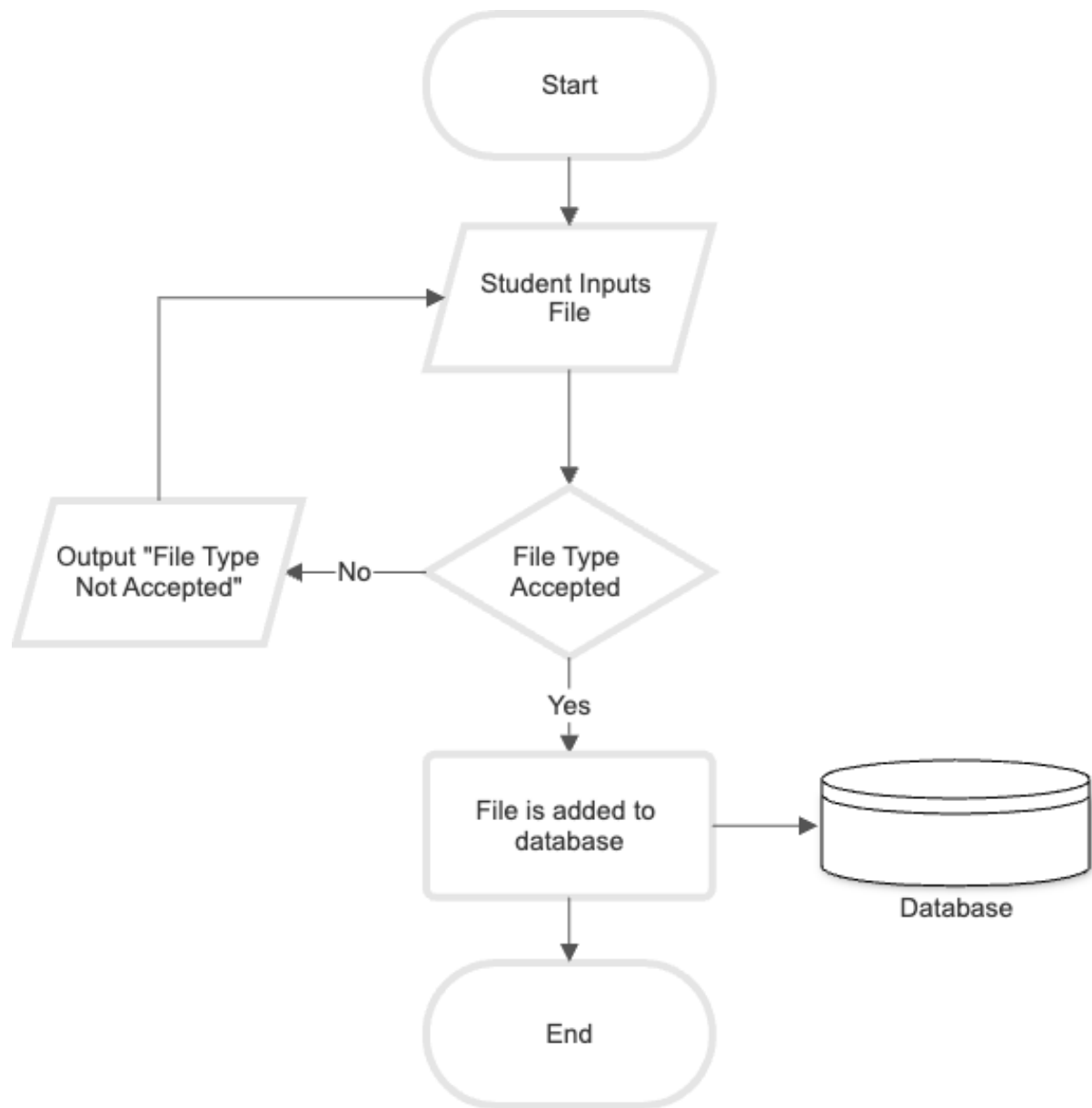


Edit Events Flowchart (Admin)

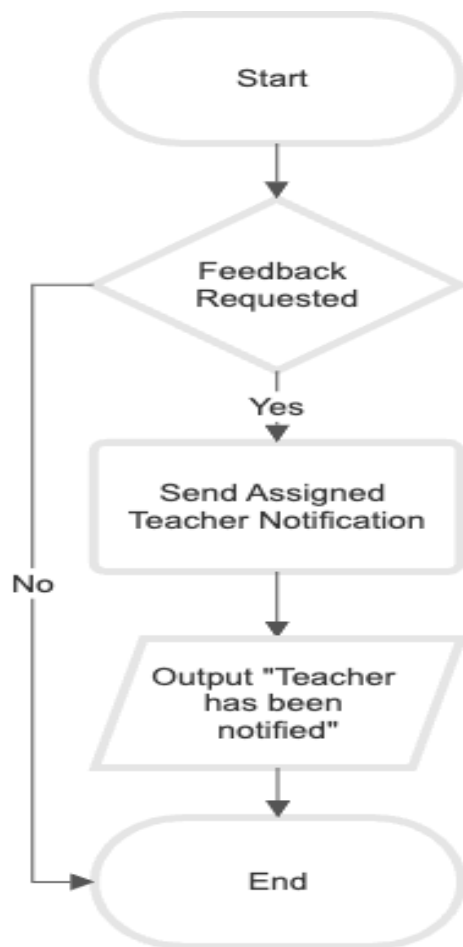


- Event Details will be first created by the Teachers
- Event Details would include Event Name, Event Date, Event Venue, Event Time
- Admin will be able to view event details and edit
- Event details entered by the teachers will be overwritten by Admin
- New event details will be stored into the database to ensure data stays consistent

Upload Files (Students)



Request Feedback (Students)



Database Overviews And Layout

Database Fields Structure Overview

Fields Related To Students

Field Name	Field Type	Field Size	Description
Student Name	VarChar	45	Name Of The Student
Student Class	VarChar	10	Student class

Fields Related To Teachers

Field Name	Field Type	Field Size	Description
Teacher First Name	VarChar	45	Teachers first Name
Teachers Last Name	VarChar	45	Teachers Last Name

Fields Related To Events

Field Name	Field Type	Field Size	Description
Event Name	VarChar	45	Name of Event
Event ID	VarChar	10	Unique ID assigned to Events
Event Date	Date		Date the event will take place
Event Start Time	Time		Start Time of event
Event End Time	Time		End Time Of Event
Event Venue	VarChar	30	Where the event will take place

Fields Related To Users

Field Name	Field Type	Field Size	Description
User ID	Char	10	Each user of the system including teachers, student and admin will be provided a unique ID
User Role	VarChar	7	Each user will be assigned a role
User Pass	VarChar	12	User's password used to login
UserName	VarChar	45	Name of User

Database Table Structures

User's Table

Field Name	Field Type	Field Size	Description
User ID	Char	10	Unique Id for each user. Primary Key in This Table
UserName	VarChar	45	Name of the user
User Role	VarChar	7	User is Admin, Teacher or Student
User Pass	VarChar	12	User Password for Login

The Users table include information regarding all three roles, the users table stored data of each user. This ensures they system has information for login for each user.

Students Table

Field Name	Field Type	Field Size	Description
User ID	Char	10	Foreign key in students referring to User ID in users table
Student Class	VarChar	10	Class Of Student

Teachers Table

Field Name	Field Type	Field Size	Description
User ID	Char	10	Foreign Key in teacher referring to user ID in users Table
Teacher FName	VarChar	45	Teacher First Name
Teacher LName	VarChar	45	Teacher Last Name

Events Table

Field Name	Field Type	Field Size	Description
Event ID	VarChar	10	Unique ID for each event. Primary Key
Event Name	VarChar	45	Name Of Event
Event Date	Date		Date Of Event

Event Start Time	Time		Start Time Of Event
Event End Time	Time		End Time Of Event
Event Venue	VarChar	30	Venue Of Event
User ID	Char	10	Foreign Key referring to User ID in Users table.

Event Participation Table

Field Name	Field Type	Field Size	Description
Event ID	VarChar	10	Foreign Key referring to Event ID in Events Table
User ID	VarChar	10	Foreign Key referring to User ID in Users Table
Responsibility	VarChar	30	Students Responsibility in event

Event Files Table

Field Name	Field Type	Field Size	Description
File ID	Char	10	Unique ID For Each file. Primary Key
Event ID	VarChar	10	Foreign Key referring to Event ID in Events Table
User ID	Char	10	Foreign Key referring to User ID in Users table
File Name	VarChar	45	Name Of File
Upload Date	Date		Date of upload

Feedback Table

Field Name	Field Type	Field Size	Description
Feedback ID	Char	10	Unique ID for each feedback. Primary Key
File ID	Char	10	Foreign key referring to File ID in Event Files Table

GUI Design Briefs

Login Page

The diagram shows a 'User Login' form with three main components: a 'Username' input field, a 'Password' input field, and a 'Submit' button. The 'Submit' button is highlighted with a blue background. Two callout boxes provide additional information: one points to the 'Submit' button, stating it is highlighted in blue to guide the user, and another points to the input fields, stating they are designated for username and password entry.

User Login

Username

Password

Submit

Submit Button highlighted by blue background to ensure user knows where to click after input.

Individual Spaces in designated box to indicate where username and password are to be entered

Admin Page

The diagram shows an 'Admin Page' dashboard titled 'Welcome, User'. It contains three main sections: 'DashBoard' with a clipboard icon, 'Add Teachers' with a person icon, and 'Edit Events' with a calendar icon. Three callout boxes provide additional information: one points to the 'Add Teachers' section, stating it is a dedicated button to that page; another points to the 'DashBoard' section, stating it will display a calendar with event highlights and has a dedicated button to the dashboard; and a third points to the 'Edit Events' section, stating it is a dedicated button to the edit events page.

Welcome, User

DashBoard

Add Teachers

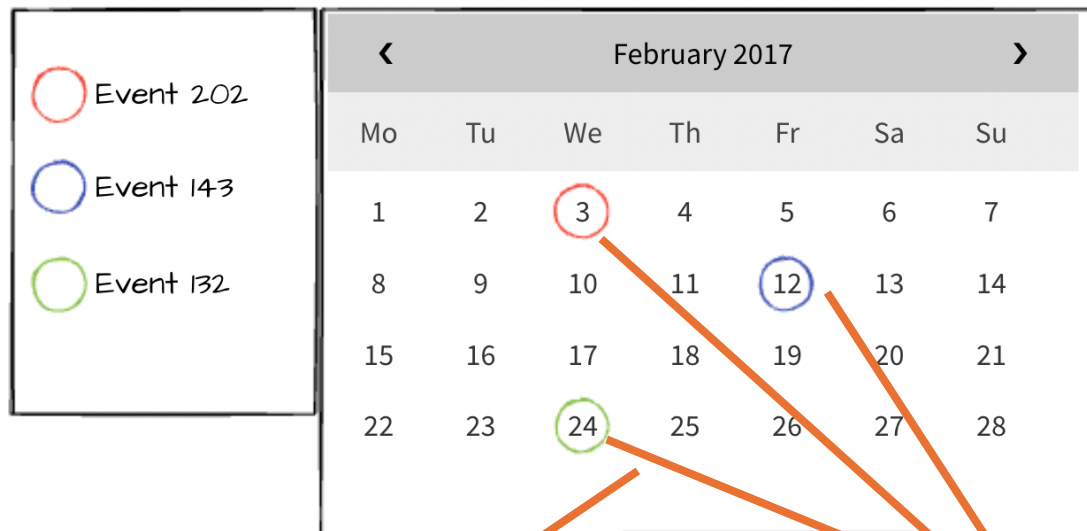
Edit Events

Dedicated Button to Add Teachers Page

DashBoard will display a calendar with highlights of events. Dedicated Button to lead to dashboard

Dedicated button to lead to edit events page

Dashboard



Callender provides visual assistance to users to understand date, day, month and see multiple events

Colored highlights corresponding to events. Event dates highlighted to ensure users are reminded of event dates

Add Teachers

The form is divided into two sections: "Add Teachers" and "Teacher Information". The "Add Teachers" section has two dropdown menus: "Event ID" and "Event Date". The "Teacher Information" section has a dropdown menu labeled "User ID" with the text "Select" and a downward arrow. Orange arrows point from the "Event ID" and "Event Date" dropdowns to the text box on the right, and from the "User ID" dropdown to the text box on the right.

Add Teachers

Event ID

Event Date

Teacher Information

User ID

Dropdowns increase accessibility. Users are easily able to select event and use IDs.

Teachers Page

Welcome, User

DashBoard

Create Events

Add Students

Dedicated button to direct teachers to create events page

Dedicated button to direct teacher to add students page.

Create Events

Create Events

Event Name

Name Of The Event

Event Date

Event Start Time

Start Time Of Event

Event End Time

End Time Of Event

Venue

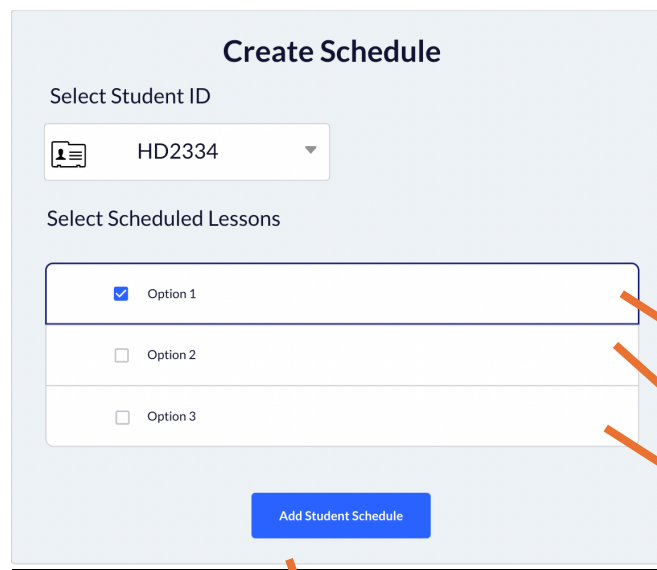
Select

Create Event

Date picker for ease of use.

Dropdown to ensure misspelled venue names do not lead to double booking of venue

Create Schedule



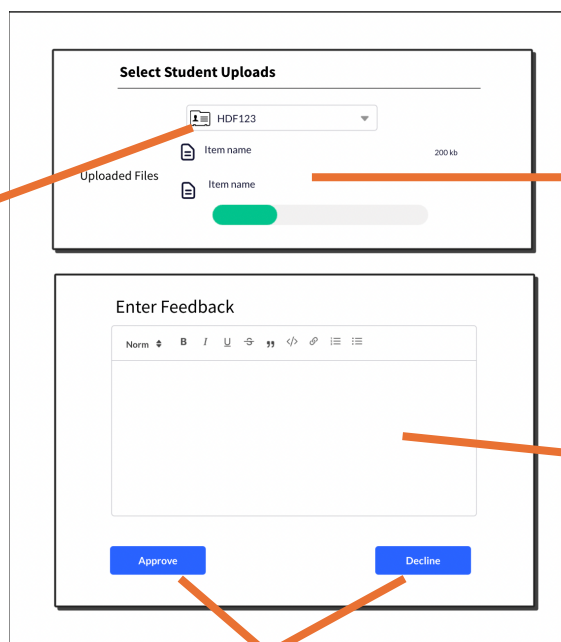
The 'Create Schedule' form is a light blue rectangular box. At the top, it has the title 'Create Schedule'. Below the title is a section labeled 'Select Student ID' containing a dropdown menu with a person icon and the text 'HD2334'. Underneath is a section labeled 'Select Scheduled Lessons' containing three stacked white boxes. The first box has a checked checkbox and the text 'Option 1'. The second box has an unchecked checkbox and the text 'Option 2'. The third box has an unchecked checkbox and the text 'Option 3'. At the bottom of the form is a blue button with the text 'Add Student Schedule'.

Dedicated Button to Add Schedule

Multi choice buttons to provide teachers the ability to select multiple lessons for practice x

Provide Feedback

Teachers can choose student IDs in order to view selected student's files.



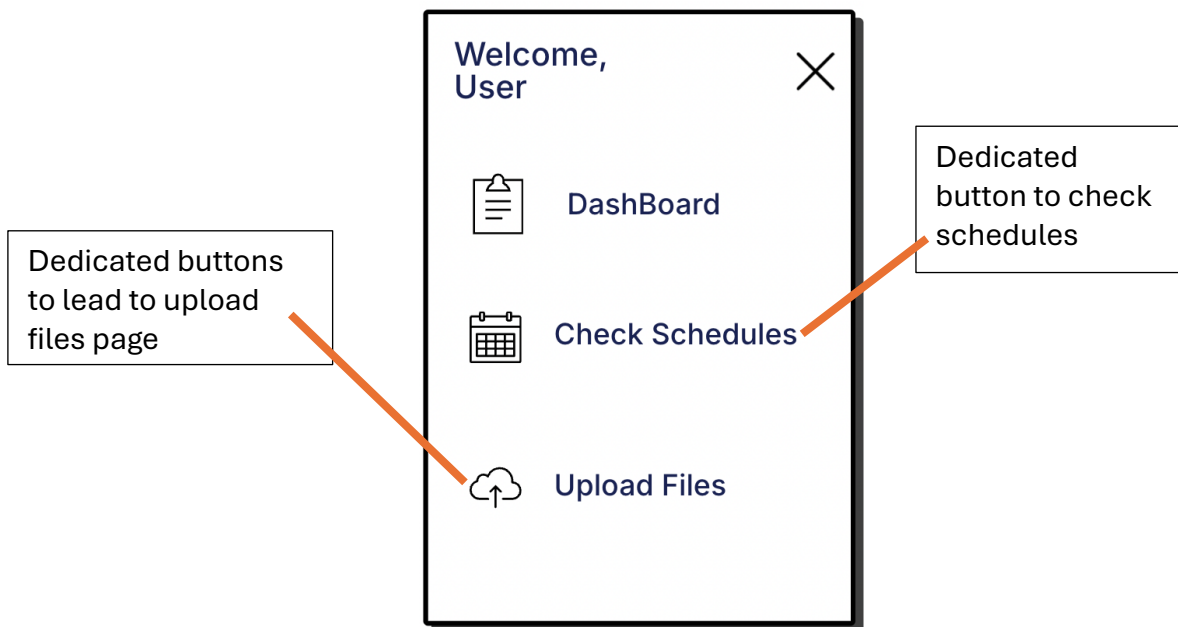
The 'Provide Feedback' form consists of two stacked white boxes. The top box is titled 'Select Student Uploads' and contains a dropdown menu with 'HDF123', a table with two columns 'Item name' and '200 kb', and a green progress bar. The bottom box is titled 'Enter Feedback' and contains a rich text editor with a toolbar (Norm, B, I, U, link, unlink, list, list, indent, outdent) and a large text area. At the bottom of the bottom box are two blue buttons labeled 'Approve' and 'Decline'.

File are displayed with there format and size to ensure teachers know what the file is and its size

Dedicated large text box with format features to ensure teachers are able to add feedback completely

Dedicated buttons to approve or decline work

Students Page



Upload Files

