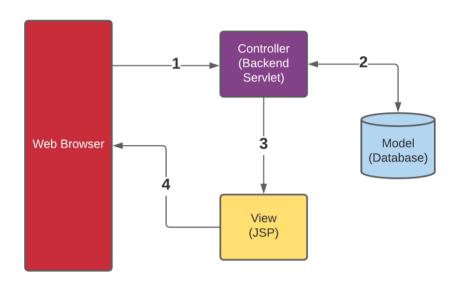
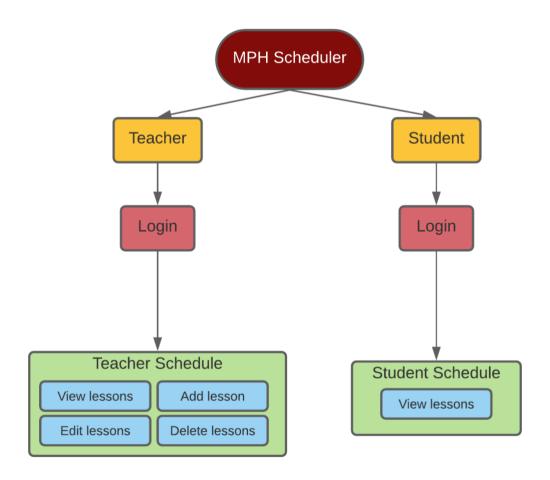
Criterion B – Design

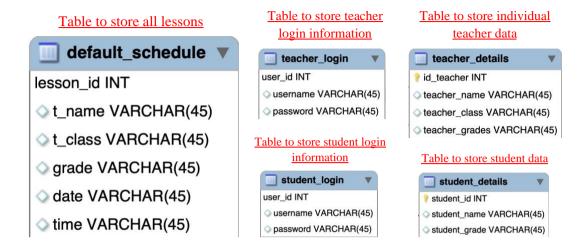
Model-View-Controller Design



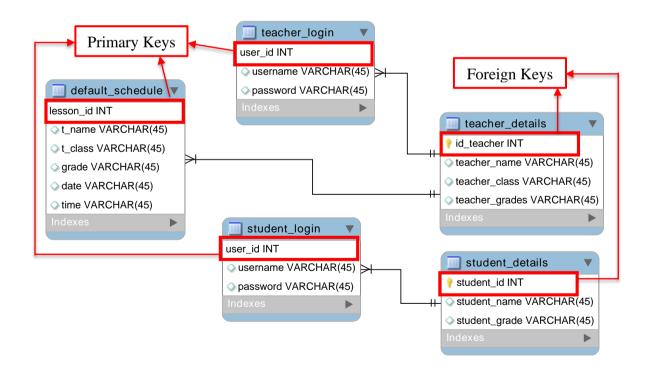
Basic Structure Chart



Database Design



Database Design with Entity Relationships



Database Tables

default_schedule: Used to store all lessons in the schedule

Column	Purpose					
Name	of column					
lesson_id	Primary key - Used to store the id of the lesson (references id_teacher as a foreign key)					
t_name	Used to store name of the teacher taking the lesson					
t_class	Used to store the class being taught during the lesson ex. Physics, Biology, etc.					
grade	Used to store the grade being taught during the lesson ex. M1, D1, D2, etc.					
date	Used to store the date of the lesson being taught					
time	Used to store the time of the lesson being taught					

teacher_login: Used to store the login information of teachers

Column	Purpose				
Name	of column				
user_id	Primary key - used to store teacher's unique id (references id_teacher as a foreign key).				
username	Used to store the username of the teacher (username is stored as the teacher's name in				
	all lowercase without any whitespaces, numbers or special characters).				
password	Used to store the password of the teacher.				

student_login: Used to store the login information of students

Column	Purpose			
Name	of column			
user_id	Primary key - used to store student's unique id (references student_id as a foreign key).			
username	Used to store the username of the teacher (username is stored as the student's name in			
	all lowercase without any whitespaces, numbers or special characters).			
password	Used to store the password of the student.			

teacher_details: Used to store individual teacher details

Column	Purpose			
Name	of column			
id_teacher	Primary key - used to store the teacher's unique id.			
teacher_name	Used to store the full name of the teacher.			
teacher_class	Used to store the class the teacher teaches.			
teacher_grade	Used to store any and all grades the teacher teaches.			

student_details: Used to store individual student details

Column	Purpose			
	of column			
student_id	Primary key - used to store the student's unique id.			
student_name	Used to store the full name of the teacher.			
student_grade	Used to store the grade in which the student studies.			

Mock-ups

(For client approval see Appendix B)

Login Page:

Student/Teach	er Login			
User ID:				
Username:				
Password:				
	Login			

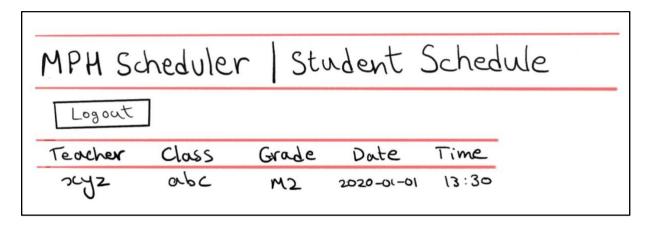
Login Error:

Student/Teacher Login			
Incorrect de	tails!		
User ID:			
Username:			
Password:			
	Login		

Teacher Schedule View Page:

	MPH Scheduler Teacher Schedule					
	Logout Add Lesson					
-	Teacher	Class	Grade	Date	Time	Action
	scyz	abc	M2	2020-01-01	13:30	Edit Delete

Student Schedule View Page:



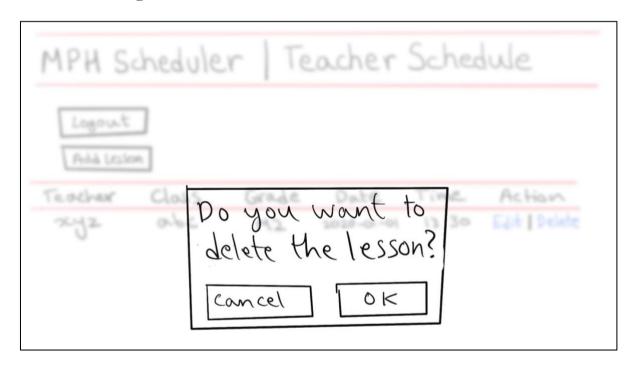
Teacher Adding Lesson:

MPH Scheduler Teacher Schedule
Add Lesson
Teacher Name: DI D Class: abc D Grade: D1 D Date: dd/mmlyy Time::
Save
Concel

Teacher Editing/Updating Lesson:

MPH Scheduler Teacher Schedule			
Update Lesson			
Teacher Name: Pgv © Class: Stu © Grade: M3 © Pate: 21/04/2020 Time: 14:15			
Reset			
Save			

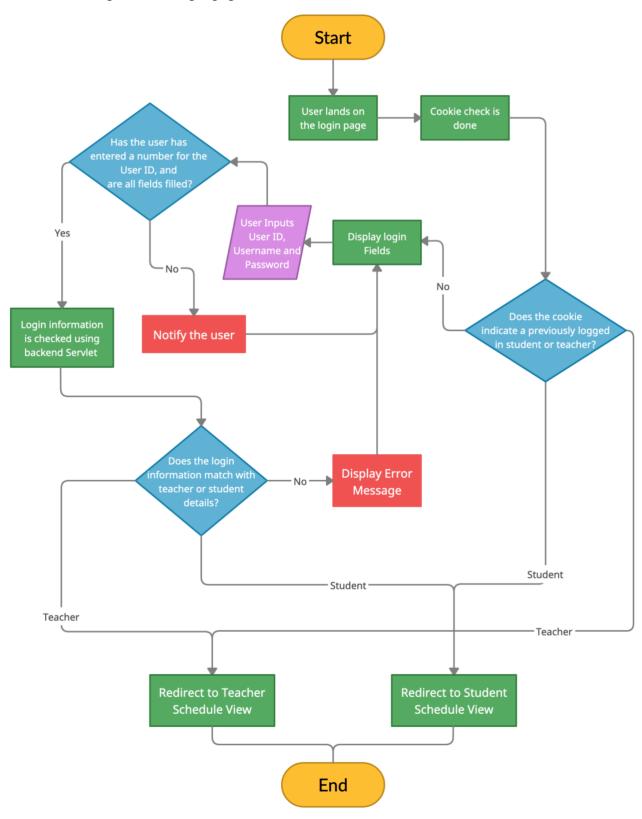
Teacher Deleting Lesson:



Flowcharts

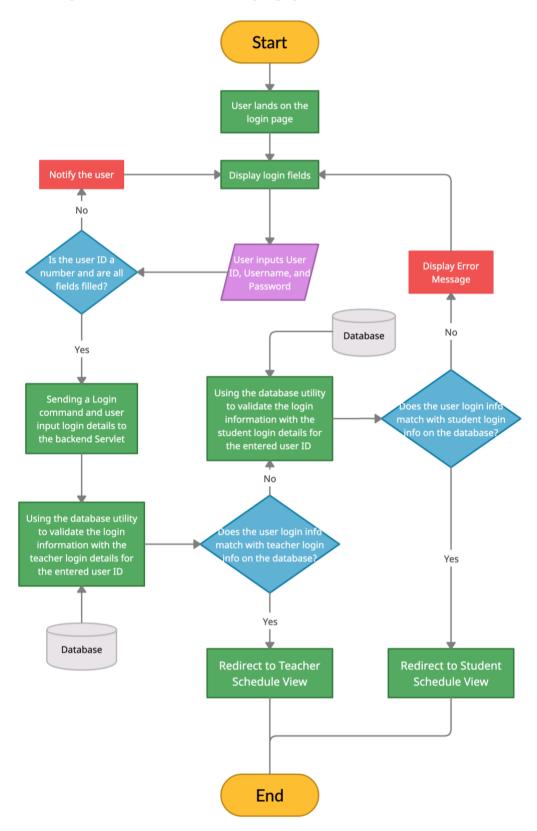
Basic User Login Flowchart (Success criteria: A, C, G)

The overall logic for the login page of the MPH Schedule website:



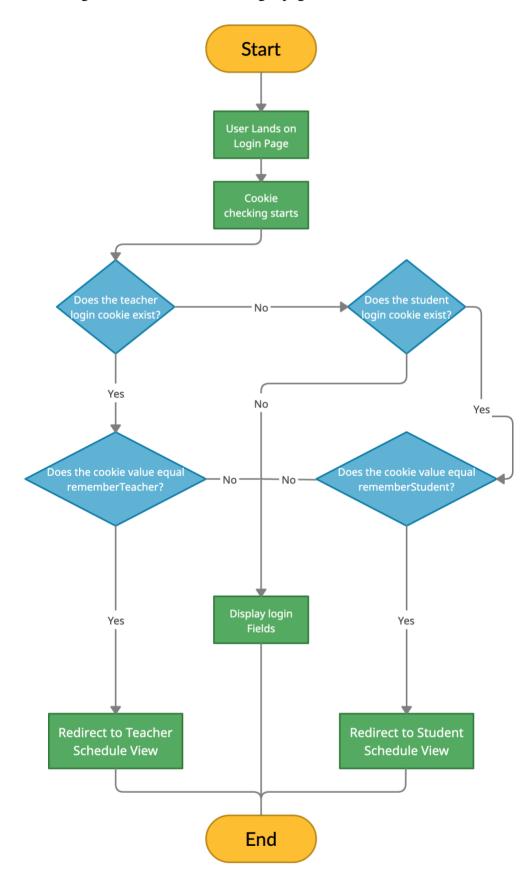
Login Validation Flowchart (Success criteria: A, C, G)

Logic for the login validation used in the Login page:



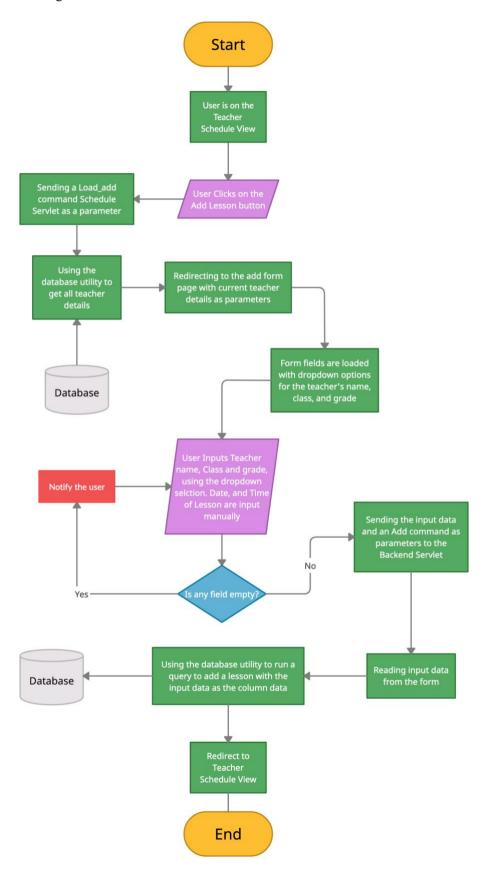
Cookie checking Flowchart (Success criteria: C, D)

Logic for checking of Cookies used in the Login page:



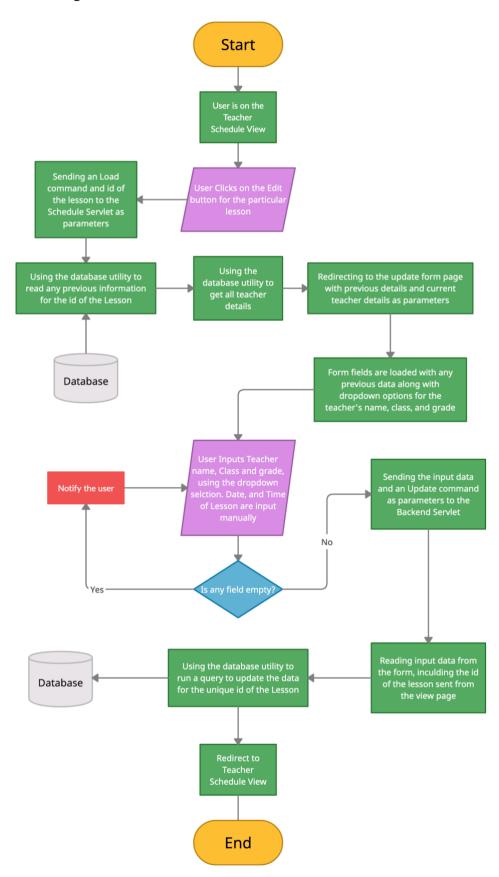
Add Lesson Flowchart (Success criteria: B, E, F, H)

Logic for the adding of new lessons to the Teacher Schedule View:



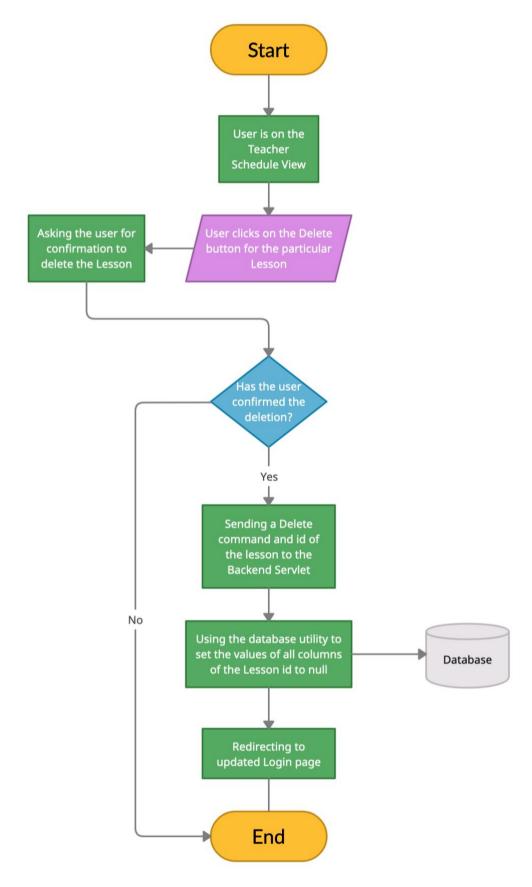
Edit Lesson Information Flowchart (Success criteria: B, E, F)

Logic for the editing of lessons on the Teacher Schedule View:



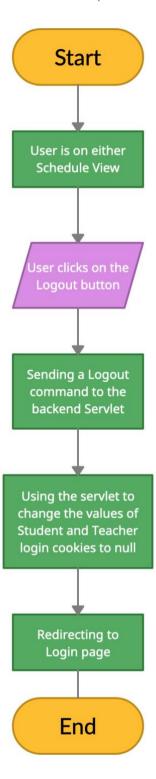
Delete Lesson Information Flowchart (Success criteria: B)

Logic for the Deletion of lessons on the Teacher Schedule View:



Logout Flowchart

Logic for logging out from either Schedule View (Student or Teacher) (Success Criteria: D):



Test Plan

Test	Test	Success	Nature of the Test	Expected Result
No.		Criteria		
1	Teacher	A	Login with a	A successful login will take the user
	Login		teacher's details (user	to the Teacher Schedule and an
			id, username and	incorrect login or empty fields will
			password).	display an error.
2	Student	C	Login with a	After a successful Login the student
	Login		teacher's details (user	should be redirected to the Student
			id, username and	Schedule where they can only view
			password).	the schedule.
3	Non-	G	Login with incorrect	A Login Error should be displayed,
	member		details (neither	and the user is not allowed to view
	Login		student nor teacher)	either schedule.
4	Check	E, F	Click the Add Lesson	The teacher should be redirected to
	Add		button on the	the Add Lesson page where their
	Lesson		Teacher Schedule	details should be pre-populated in
			View	the fields (other than the date and
				time fields).
5	Add	В	Add a lesson to the	A new lesson should be added, and
	Lesson		Schedule using the	the Teacher and Student Schedule
			Add Lesson Page	View's should update.
6	Check Edit	E, F	Click the Edit button	The teacher should be redirected to
	Lesson		for a Lesson on the	the Update Lesson page where the
			Teacher Schedule	old lesson details should be pre-
			View	populated in the fields, including
				the date and time. The only options
				for the drop-down selections should
				be the old details and the teacher's
				details.
7	Edit	B, E, F	Edit a lesson in the	The old lesson should be updated
	Lesson		Schedule using the	with the newly entered details and
			Update Lesson Page	both Schedule Views should be
				updated.
8	Delete	C	Delete a lesson using	A popup should appear asking the
	Lesson		the Delete button on	teacher to confirm deletion of a
			the Teacher Schedule	lesson. A subsequent 'OK' should
			View	remove the lesson from both
				Schedule Views and a "Cancel"
				should close the popup with no
				other action being performed.

9	Teacher	D	Close the web-app as	The teacher should be automatically
	reopen		a Teacher and reopen	be redirected to the Teacher
	schedule		it within 14 days	Schedule View.
10	Student	D	Close the web-app as	The teacher should be automatically
	reopen		a student and reopen	be redirected to the Student
	schedule		it within 14 days	Schedule View.
11	Teacher	D	Logout from the	The teacher should be faced with
	Logout		web-app as a teacher	the login page and is required to
			and reopen it.	login once again.
12	Student	D	Logout from the	The student should be faced with
	Logout		web-app as a student	the login page and is required to
			and reopen it.	login once again.
13	Add	Н	Add 5+ Lessons to	There should be no upper limit to
	Multiple		the schedule as a	the number lessons that can be
	Lessons		teacher.	added to the schedule.