Criterion B-Design

DATA BEFORE AND AFTER NORMALIZATION

BEFORE NORMALIZATION

Store of Details (Data Tables)

Field Name	Data Type	Size (Characters)	Description	
admin_id	Integer	11	Admin UID	
admin_user_name	String/Alphanumeric/Special Characters	100	Admin username to login	
admin_password	String/Alphanumeric/Special Characters	150	Admin password to login	
attendance_id	Integer	11	ID in attendance table	
student_id	Integer	11	Student UID	
attendance_status	Enum(Present or Absent)	-	Attendance status of student	
attendance_date	Date	-	Date of attendance	
teacher_id	reacher_id Integer		Teacher UID	
grade_id	Integer	11	Grade UID	
grade_name	String/Alphanumeric/Special Characters	10	Classes and Sections	
student_id	Integer	11	Student UID	
student_name	String/Alphanumeric/Special Characters	150	Name of student	
student_roll_number	Integer	11	Student roll number	
student_dob	Date	-	Date of birth of student	
student_grade_id	Integer	11	Student grade UID	
teacher_id	Integer	11	Teacher UID	
teacher_name	teacher_name String/Alphanumeric/Special Characters		Name of Teacher	
teacher_address	String	-	Address of the teacher	

teacher_emailid	String/Alphanumeric/Special	100	Teacher email ID
	Characters		
teacher_password	String/Alphanumeric/Special	100	Password of teacher
	Characters		account
teacher_qualification	String/Alphanumeric/Special	100	Teacher qualification
	Characters		
teacher_doj	Date	-	Teacher date of
			joining
teacher_image	String/Alphanumeric/Special	100	Image of teacher
	Characters		
teacher_grade_id	Integer	11	Teacher Grade UID

AFTER NORMALIZATION

Admin details (tbl_admin)

Field Name	Data Type	Size (Characters)	Description
admin_id	Integer	11	Admin UID
admin_user_name	String/Alphanumeric/Special 100		Admin username to
	Characters		login
admin_password	String/Alphanumeric/Special	150	Admin password to
	Characters		login

Attendance details (tbl_attendance)

Field Name	Data Type	Size (Characters)	Description
attendance_id	Integer	11	ID in attendance table
student_id	Integer	11	Student UID
attendance_status	Enum(Present or Absent)	-	Attendance status of student
attendance_date	Date	-	Date of attendance
teacher_id	Integer	11	Teacher UID

Grade details (tbl_grade)

Field Name	Data Type	Size (Characters)	Description
grade_id	Integer	11	Grade UID
grade_name	String/Alphanumeric/Special Characters	10	Classes and Sections

Student details (tbl_student)

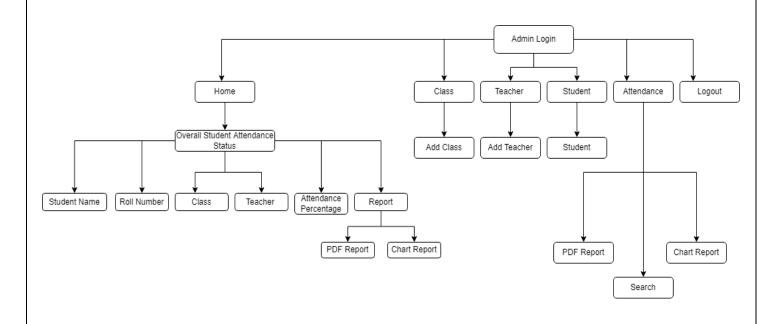
Field Name	Data Type	Size (Characters)	Description
student_id	Integer	11	Student UID
student_name	String/Alphanumeric/Special 150 Characters		Name of student
student_roll_number	Integer	11	Student roll number
student_dob	Date	-	Date of birth of student
student_grade_id	Integer	11	Student grade UID

Teacher details (tbl_teacher)

Field Name	Data Type	Size (Characters)	Description
teacher_id	Integer 11		Teacher UID
teacher_name	String/Alphanumeric/Special 150 Characters		Name of Teacher
teacher_address	String	-	Address of the teacher
teacher_emailid	String/Alphanumeric/Special 100 Characters		Teacher email ID
teacher_password	String/Alphanumeric/Special 100 Characters		Password of teacher account
teacher_qualification	String/Alphanumeric/Special 100 Characters		Teacher qualification
teacher_doj	Date	-	Teacher date of joining
teacher_image	String/Alphanumeric/Special 100 Characters		Image of teacher
teacher_grade_id	Integer	11	Teacher Grade UID

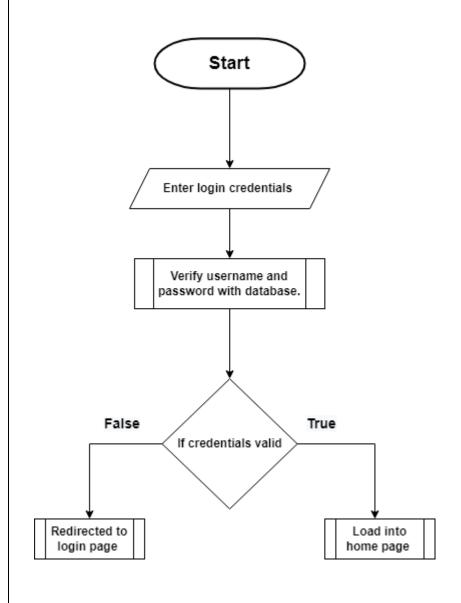
Module Diagram: BodhiTracker Admin Login Teacher Login Teacher Login Home Class Teacher Student Attendance Attendance Home Profile Attendance Logout

Admin Login:



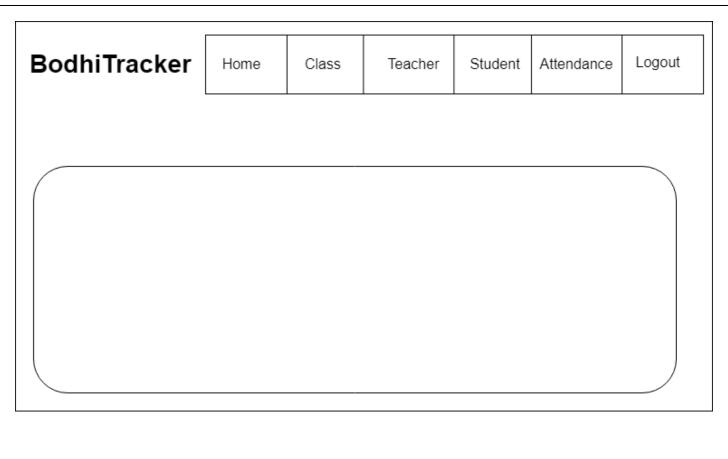
Teacher Login: Teacher Login Profile Home Attendance Logout Edit Profile Search Add Report PDF Report Student Name Roll Number Class Attendance Percentage

Process Flowchart:



Design Layout:				
Ь	o db:Tr	- alza v		
D	odhiTra Teacher/Admin			
L	ogin ID			
Pa	ssword			
	Login			
BodhiTracker	Home	Profile	Attendance	Logout

Home	Profile	Attendance	Logout
	Tionie	Tione Tione	Tione Prone Attendance



Screen Layout:







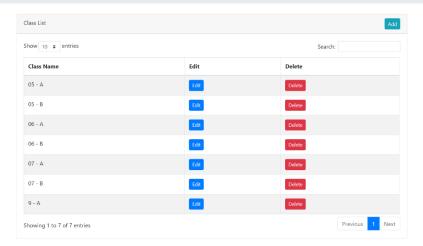
Bodhi Tracker

Teacher / Admin

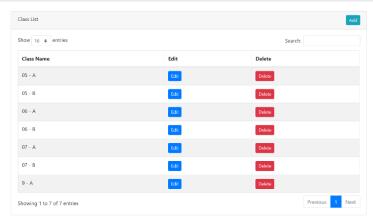




Bodhi Valley
Learning Academy Home Class Teacher Student Attendance Logout



Bodhi Valley
Leaning Academy
Home Class Teacher Student Attendance Logout



Testing plan:

Action test	Description	Method of	Success Criteria	Pass/Fail
		testing/Expected		
		Result		
Login	Validation of	Enter Correct	8	Pass
	username and	Login Details;		
	password	Enter Wrong Login		
	redirecting user to	Details; Error		
	dashboard	Dialog saying		
		wrong login-details		
		entered		
		Only entering		
		credentials in one		
		field; Error		
		Message		
		displaying that		
		password/username		
		not entered		
Teacher account	Creation of teacher	Creating teacher	1,8	Pass
creation	profile for the user	profile by	1,0	1 433
Creation	to mark attendance	validating all form		
	to mark attendance	fields; Typing		
		invalid data in		
		fields; Leaving few		
		fields unfilled;		
		Error message		
		depicted along with "*" icon.		
Cassing and	Cuestian of alasses		2.2	Daga
Creating and	Creation of classes	Leaving the field	2,3	Pass
deleting classes	and sections.	unfilled; Filling the		
and sections		field with both		
		alphanumeric and		
		only alphabetical		
		data; Deleting class		
		from list; "Data		
		added		
		successfully" and		
		"Data deleted		
		successfully"		
		message displayed		
A	A 111	on screen	^	
Attendance	Adding student	Leaving date field	9	Pass
	attendance status	unfilled;		
	on any date.	"Attendance date is		
		required" message		
		displayed;		
		Choosing "present"		
		option; Choosing		
		"absent" option;		

Adding students	Adding students	Leaving student	2,6	Pass
and classes	and classes.	name field unfilled;		
	Assigning students	Leaving student		
	to respective	class field unfilled;		
	classes.	Filling add class		
		field with		
		alphanumeric,		
		alphabetical, and		
		numerical data;		
		"Class name is		
		required" message		
		displayed upon		
		unfilled field.		
PDF and Chart	Generating a	Choosing invalid	7,9	Pass
report	detailed chart and	date range such as	,	
1	pdf report of	2 nd April to 25 th		
	student attendance	March; Blank		
	during a specific	report generated		
	time period.	upon entering		
	1	invalid		
		dates;Generating		
		report for dates		
		with no attendance		
		status.		
Editing teacher	Enabling admin to	Removing previous	1	Pass
account	change teacher	information and		
information	account username,	leaving the field		
	password, and in	unfilled;		
	teacher	Respective field "is		
	information.	required" message		
		displayed.		
Logout	Admin and teacher	Clicking on the	-	Pass
C	should be	logout button		
	redirected to	repeatedly on both		
	respective login	admin and teacher		
	page after logging	profile.		
	out.	1		

