Gantt Charts

Task Number	Planned Action	SEPTEMBER				OCTOBER			
		1-7	8-14	15-21	22-30	1-7	8-14	15-21	22-30
1	First meeting with client			▓					
2	First meeting with advisor			▓					
3	Submitting problem to CS teacher			▓					
4	Planning solution and technologies				▓	▓			
5	Outlining Criteria for Success					▓			
6	Second meeting with client						▓		
7	Outlining Record of Tasks						▓		
8	Completing Gantt Chart						▓		
9	Design UI Prototypes							▓	
10	Designing and describing Processes								▓

11	Completing Test Plan								▓

Task Number	Planned Action	NOVEMBER				DECEMBER			
		1-7	8-14	15-21	22-30	1-7	8-14	15-21	22-30
11	Completing Test Plan	▓							
12	Implementing user authentication and validation		▓						
13	Implementing session management			▓					
14	Developing typing test functionality				▓				
15	Implementing role-based access control						▓		
16	Implementing real-time performance tracking							▓	
17	Developing student statistics dashboard								▓

Task Number	Planned Action	JANUARY				FEBRUARY			
		1-7	8-14	15-21	22-30	1-7	8-14	15-21	22-30
18	Creating class system	██							
19	Implementing assignment system		██						
20	Testing core functionalities			██					
21	Fixing identified bugs and issues				██				
22	Analyzing and explaining code snippets					██			
23	Recording Video					██			
24	Conducting client feedback session					██			
25	Writing evaluati						██		

	on and recommendations for improvement									

UI Prototypes

Register & Log-in page

Student dashboard

| Site Name | | Select Class ⌄ 🔔 👤 |

Assignments   Statistics   Practice

Assignments

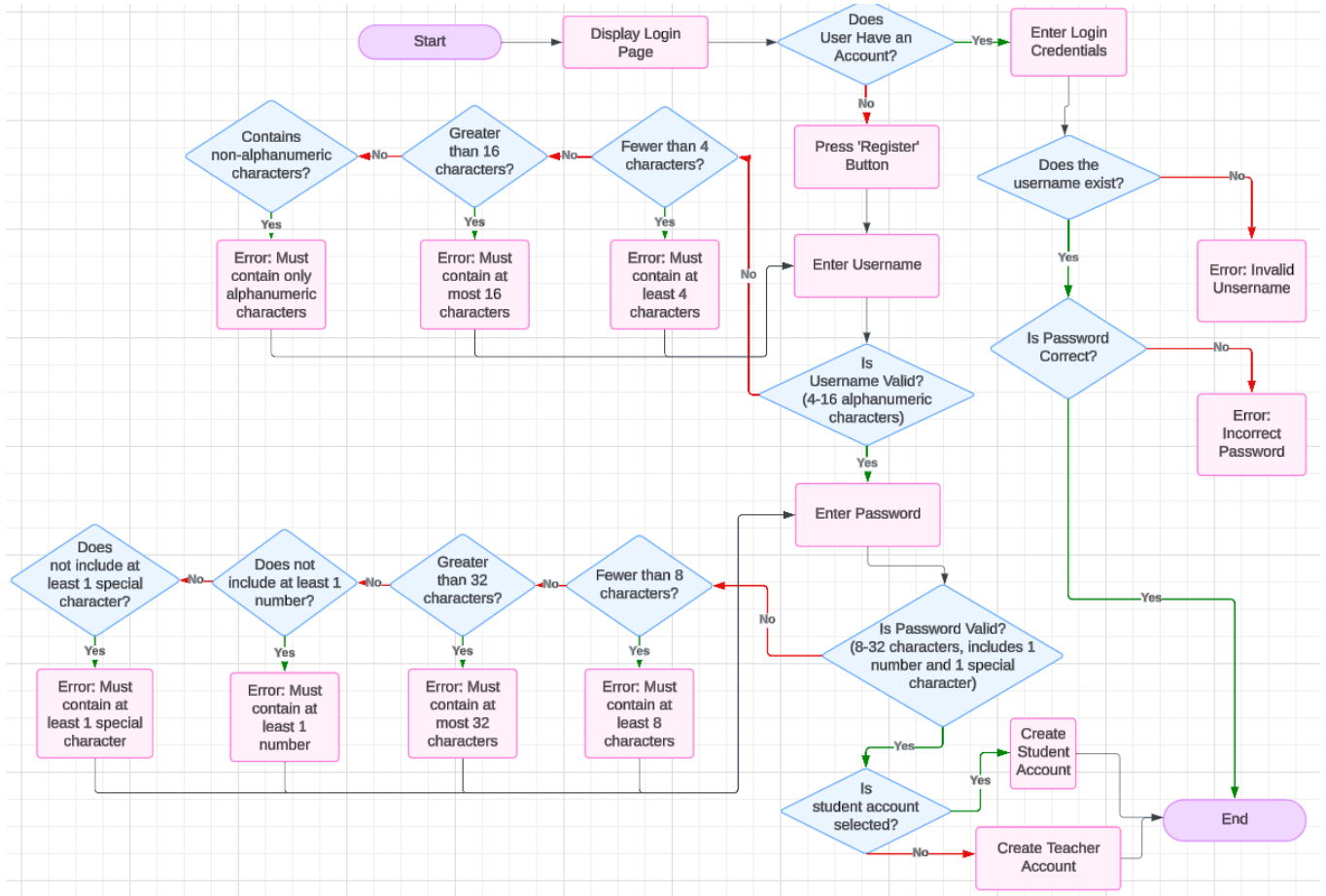| Assignment
Due: | Incomplete |
Assignment Due:	In Progress
Assignment Due:	Completed
Assignment Due:	Incomplete
Assignment Due:	Incomplete

Statistics menu

Statistics

WPM 274

Accuracy 97%
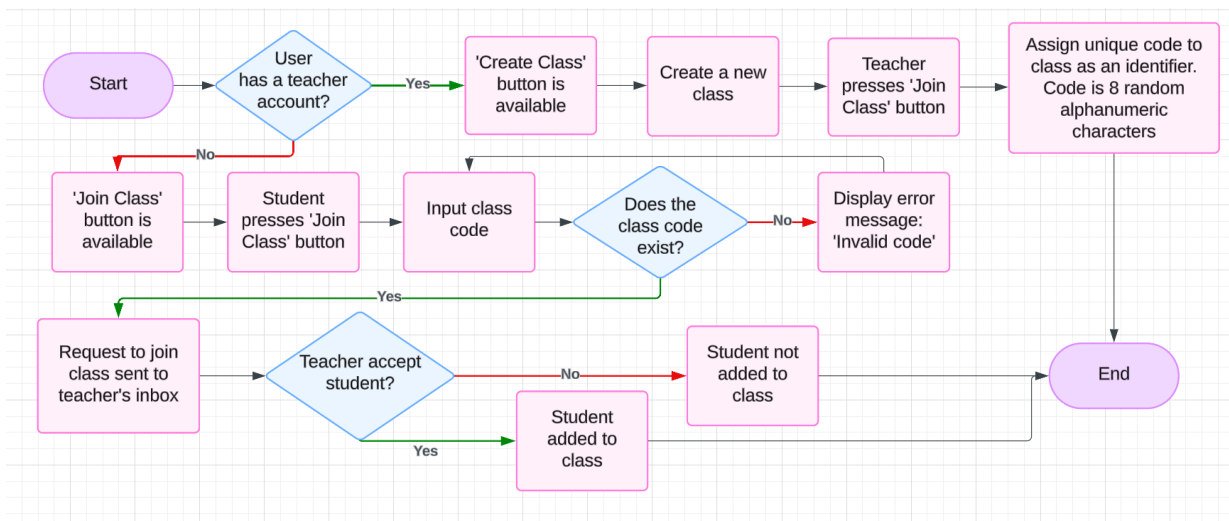
Activities Complete 188

Games won 42

Win % 92%

Flow Charts

Register/Login Page

Create/Join Class

Test Plan

TASK	ACTION
There is a login page to log-in to a teacher or student account.	Navigate to the main page and confirm the presence of a "Log-In" button.
If a user does not have an account, they may press the "Register" button.	Verify the presence of a "Register" button for users without an account.
When pressing the "Register" button, the user will be prompted to enter a username and password.	Click the "Register" button and verify that both username and password input fields appear.
Usernames must be between 4 and 16 alphanumeric characters.	Enter usernames of fewer than 4 and more than 16 characters to verify that appropriate error messages are displayed. Test input with special characters to verify error handling.
Passwords must be between 8 and 32 characters, including at least 1 number and 1 special character.	Enter passwords of fewer than 8 characters, more than 32 characters, without any numbers, and without special characters to verify the appropriate error messages are displayed.
Users have the option to select a teacher or student account when registering.	Verify that users can choose between a teacher or student account during registration.
Users can log in with a registered username and password.	Attempt to log in using valid username and password combinations to verify successful login.
Error message is displayed if the username is not registered.	Attempt to log in with an unregistered username and verify the error message "Invalid username.
Error message is displayed if the password is incorrect for a registered username.	Enter a valid username with an incorrect password to verify that the error message "Incorrect password" is displayed.
Teachers can create classes, and each class is assigned a unique code.	Log in as a teacher, create a class, and verify that a unique code is generated and assigned to the class.
Students have a "Join Class" button available.	Log in as a student and verify that the "Join Class" button is visible on the interface.
Students can enter a class code to join a class,	Enter an incorrect class code as a student and

and an "Invalid code" error appears if the code is incorrect.	verify that an error message "Invalid code" is displayed.
Teachers can assign tasks to students in a class.	Log in as a teacher, assign tasks to a class, and verify that assigned tasks appear on each student's to-do list.
Tasks are marked as completed or incomplete based on the deadline.	Complete a task before the deadline and verify its status as complete; leave another task incomplete past the deadline and verify its status as incomplete.
Students have access to the "Practice" button and activity selection page.	Log in as a student, click on the "Practice" button, and verify that you are redirected to the activity selection page.
Students can select an activity and begin with a "Start" button.	Choose an activity and click the "Start" button to verify that the activity starts correctly.
Student statistics (WPM, accuracy, time) are displayed after an activity.	Complete an activity as a student and verify that typing speed (WPM), accuracy, and total time are displayed upon completion.
Students have a "Return" button to navigate back to the activity screen.	Click the "Return" button and verify that you are redirected back to the activity screen successfully.
Students have access to the "Statistics" button to view their typing statistics.	Click the "Statistics" button as a student and verify that the average WPM, average accuracy, and previous results are displayed.