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Software Test Plan Document

StudyBuddy: A Collaborative Place for Students

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DOCUMENT APPROVALS

<u>Name of Approver</u>	<u>Role in Project</u>	<u>Signature or Electronic Approval</u>	<u>Date Approved</u>
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1.0 Introduction

1.1 Background of Study

Collaboration and group assignments are very important components of modern higher education. However, students in UniKL MIIT frequently face a problem in finding suitable study partner or group that shares the same academic levels, subject interests or working styles. These challenges frequently show the unbalanced group contributions, communication gaps, and reduced learning effectiveness.

In context, the absence of a centralized platform for students' collaboration has led many students to rely on external communication tools that are fragmented and inconsistent. This situation inflicts the issues of ineffective teamwork, poor task coordination and increased occurrences of "free riders" within group projects. From these problems, the StudyBuddy platform is introduced as a structured system designed to support students in forming a compatible study group, communicating efficiently, and tracking academic progress in an organized manner.

1.2 Software Test Plan (STP) Purpose

This section outlines the purpose of the Software Test Plan to provide a structured and reliable strategy for evaluating the StudyBuddy system to ensure its functionality, reliability, and readiness for deployment. It acts as a quality assurance blueprint that guides how testing activities will be conducted throughout the development cycle.

1.3 Project Scope

This project, StudyBuddy, will focus on developing a collaborative online platform that connects students with compatible study partners based on shared subjects and academic levels. The system will include the following main features: -

- User Registration and Authentication**

Students can sign up, create profile and securely log in using university credentials or personal accounts. Data privacy and secure authentication will be prioritized to ensure user information is protected.

- Study Partner Matching System**

The system will analyse users' subject preferences, academic levels, and compatibility ratings to recommend suitable study partners or groups.

- Real-Time Communication**

A chat or discussion section will be implemented to enable direct communication among students for coordination and knowledge sharing.

- Progress Tracking Dashboard**

Users can monitor their study activities, view group participation, and track individual or group progress over time.

- Admin Dashboard for System Management**

Admin can manage users, handle reports, monitor groups to oversee system activity and maintain platform integrity.

- Security, Privacy & Data Protection**

The system will implement a secure data protection and restricted access, enforce input validation and safe queries to prevent virus or unauthorized data access and ensure privacy-focused handling of user profiles and communication data.

1.4 Overview of Sections

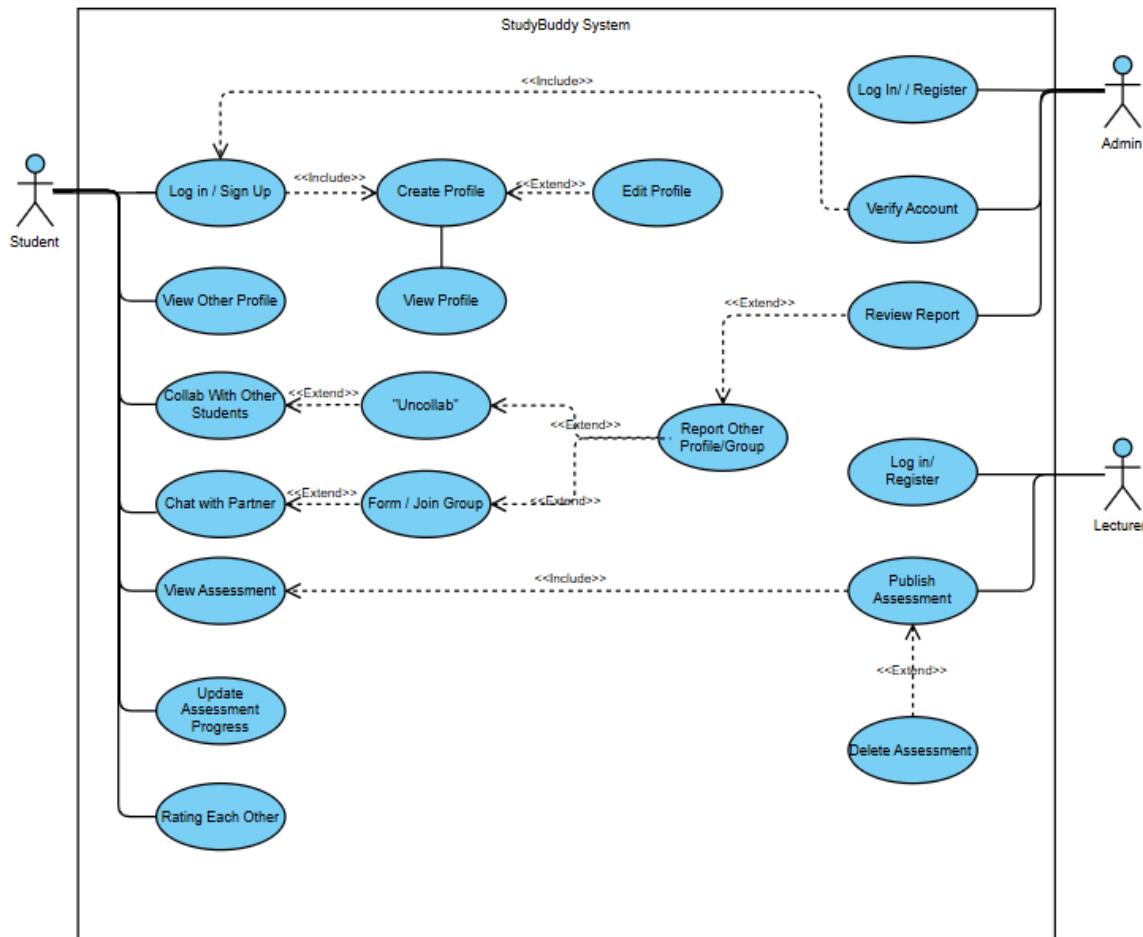
This document is structured into several key sections:

Section 1: Introduction to Project, Software Test Plan (STP) Purpose

Section 2: Overall Use-Case Diagram & Statements

Section 3: Use-Case Snippets, Statements & Test Case

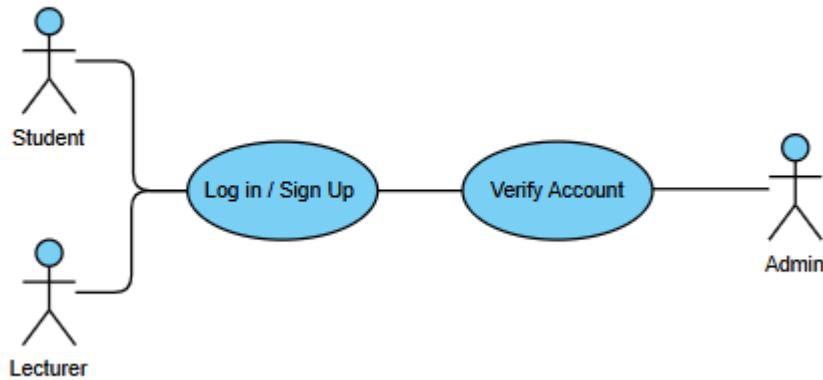
2.1 Overall Use-Case Diagram for StudyBuddy: Collaborative Place for Students



Actors:	<ul style="list-style-type: none"> • Student Primary user of the system who creates a profile, finds study partners, collaborates, chats, joins groups, view assessments, updates progress, rates partners and report issues. • Lecturer Responsible for publishing assessments that students can view and work on • Admin Manages the system by verifying user accounts and reviewing reports submitted by students
Main Use-Cases:	<ol style="list-style-type: none"> 1. Log In / Register Allows students, lecturers and admins to access the StudyBuddy System. 2. Create Profile Students create their personal profile after registration. 3. Edit Profile Students update their profile information. 4. View Profile / view other profiles Students can view own profiles and browse other students' profiles. 5. Collaborate with other students Students connect with suitable study partners. 6. Form / Join Group Students form or join study groups for collaborative learning. 7. Chat with Partner Enables communication between study partners or group members 8. View Assessment Students view assessments published by lecturers. 9. Update Assessment Progress Students update their related to assessments. 10. Rating each other Students provide ratings after collaboration. 11. Report another profile / group. Students report inappropriate behaviour or issues. 12. Verify Account Admin verifies newly registered accounts. 13. Review Report Admin reviews reports submitted by students 14. Publish Assessment Lecturer uploads and publishes assessments for students.

3.0 Use-Case Snippets, Use-Case Statements & Test Case

3.1 Use-Case Snippets: Log in / Sign Up



3.1.1 Use-Case Statements: Log In / Sign Up

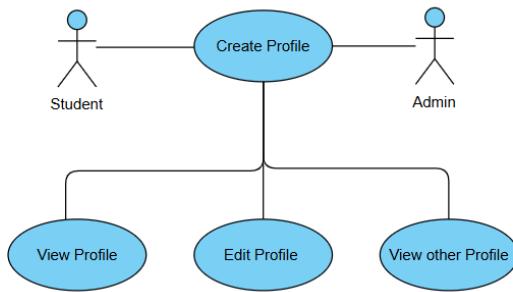
Actor:	Student, Admin, Lecturer
Pre-Condition:	User has access to the StudyBuddy website
Trigger:	User selects the Log-In / Sign-Up option
Main Flow:	<ol style="list-style-type: none">1. User enters login or registration details.2. System validates the information.3. System grants access to the user.
Alternative Flow:	<ul style="list-style-type: none">• If credentials are invalid, the system displays an error message.
Post-Condition:	User is successfully logged into the system.

3.1.2 Test Case

TC01 – Sign-Up

Tested By:	Danial Aiman bin Zambri
Test Type:	Functional Testing
Test Design Technique:	Black Box Testing
Risk Number:	High (Critical functionality)
Test Case Number:	TC01
Test Case Name:	Sign-Up Functionality
Requirement Traceability:	Use Case 3.1 (Log In / Sign Up)
Test Case Description:	Verify that a new user (Student or Lecturer) can successfully register an account on the StudyBuddy system using valid credentials.
Item(s) to be tested:	
1	Sign-Up Page / Registration Form
2	User Database (to verify account creation)
Pre-Condition:	
<ul style="list-style-type: none"> • User has internet access. • User has navigated to the StudyBuddy website URL. • User is currently logged out. 	
Specifications	
Input	Expected Output/Result
Valid Name, Valid Email Address (e.g., student@unikl.edu.my), Valid Password.	The system validates the information, creates a new record in the database, displays a success message, and grants the user access.
Test Procedure Steps	
1	Launch the web browser and navigate to the StudyBuddy website.
2	Click on the "Sign Up" / "Register" button on the landing page.
3	Enter a valid Name in the name field (e.g., "Danial").
4	Enter a valid Email Address in the email field.
5	Enter a valid Password (meeting system requirements) in the password field.
6	Click the "Submit" or "Register" button.
7	Observe the system response and check the database for the new user record.
Post-Condition:	
<ul style="list-style-type: none"> • User is redirected to the Login Page. • A new user account is created in the StudyBuddy Database. 	

3.2 Use-Case Snippets: Create Profile



3.2.1 Use-Case Statements: Create Profile

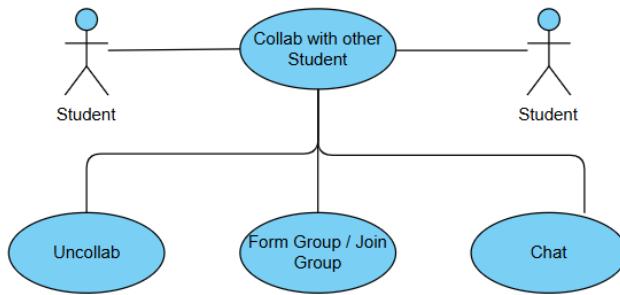
Actor:	Student, Lecturer, Admin
Pre-Condition:	User has signed up an account
Trigger:	User login right after sign-up a new account
Main Flow:	<ol style="list-style-type: none">1. User enters login details.2. User enters short bio / description.3. User enters their skills/proficiency.4. User enters their programming skill level5. User selects their academic skills.6. User presses save profile button.7. System enters the user's profile data into database.
Alternative Flow:	<ul style="list-style-type: none">• Invalid credentials entered, system displays error message.
Post-Condition:	User's new account has a profile now

3.2.2 Test Case

TC02 – Create Profile

Tested By:	Danial Aiman bin Zambri
Test Type:	Functional Testing
Test Design Technique:	Black Box Testing
Risk Number:	Medium (Essential for user experience)
Test Case Number:	TC02
Test Case Name:	Create Profile Functionality
Requirement Traceability:	Use Case 3.2 (Create Profile)
Test Case Description:	Verify that a newly signed-up user can successfully complete their profile setup by entering biography, skills, and proficiency details.
Item(s) to be tested:	
1	Profile Creation / Setup Page
2	Profile Database (to verify profile data is saved)
Pre-Condition:	
<ul style="list-style-type: none"> User has successfully signed up for an account. User is currently at the Login page (as per the specific trigger in your use case). 	
Specifications	
Input	Expected Output/Result
Valid Login Details, Bio/Description, Skills/Proficiency, Programming Skill Level, Academic Skills.	The system authenticates the user, accepts the profile data, saves it to the database, and confirms the profile creation.
Test Procedure Steps	
1	Enter valid login details (username/password) for a newly created account.
2	(Upon successful login) Enter a short bio or description in the provided text field.
3	Enter or select specific skills/proficiency.
4	Enter or select the programming skill level (e.g., Beginner, Intermediate).
5	Select relevant academic skills from the options provided.
6	Click the "Save Profile" button.
7	Observe the system response and check the database to ensure profile data is stored.
Post-Condition:	
<ul style="list-style-type: none"> User's new account has a completed profile. Profile data is successfully stored in the StudyBuddy database. 	

3.3 Use-Case Snippets: Collaboration with Other Students / Group



3.3.1 Use-Case Statements: Collaboration with Other Students / Group

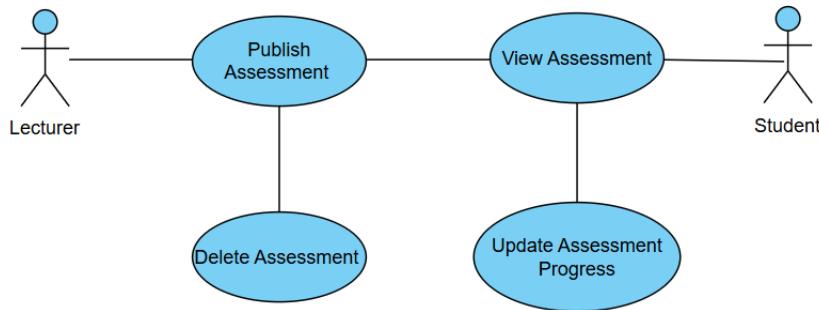
Actor:	Student
Pre-Condition:	<ul style="list-style-type: none"> • Student has registered and logged in to the system. • Student profile is created and verified
Trigger:	Students select the “collaborate with other students.”
Main Flow:	<ol style="list-style-type: none"> 1. Student accesses the collaboration feature. 2. System displays available students and existing groups. 3. Student chooses to form a new group, join existing group, or collab with their desired study partner. 4. System confirms the collaborating request. 5. Student starts interacting with group members through chat feature.
Alternative Flow:	3a) Student cancels the collaboration request 3b) Student leaves or uncollaborates from an existing group. 4a) Collaboration request is rejected or the group is full.
Post-Condition:	<ul style="list-style-type: none"> • Student is successfully connected with other students in a group. • Collaboration is cancelled and no group connection is established.

3.3.2 Test Case

TC03 – Collaboration with Other Students / Group

Tested By:	Erika Ezliyana Binti Mohd Fazli
Test Type:	Functional Testing
Test Design Technique:	Black box Testing
Risk Number:	High (Core Functionality for system value)
Test Case Number:	TC03
Test Case Name:	Collaboration with Other Students / Group Functionality
Requirement Traceability:	Use Case 3.3 (Collaboration with Other Students / Group)
Test Case Description:	Verify that a logged-in Student with a completed profile can successfully initiate collaboration by finding suitable partners or joining an existing group, leading to successful connection and access to the chat feature.
Item(s) to be tested:	
1	Collaboration Feature / Search Interface (to display students/groups)
2	Group/Partner Database (to confirm connection status)
Pre-Condition:	
<ul style="list-style-type: none"> • Student has registered and logged in to the system. • Student profile is created and verified 	
Specifications	
Input	Expected Output/Result
Selection to Form a New Group, or Request to Join Existing Group/Collab with a specific study partner.	The system validates and confirms the collaboration request. The system updates the group/partner status in the database, displays a success confirmation message, and grants the student access to the chat feature with the new partner/group members
Test Procedure Steps	
1	Navigate to the main dashboard after logging in.
2	Select the "Collaborate with other students" option.
3	Observe the system displaying available students and existing groups.
4	Choose an action: select an available partner and send a collaboration request, choose to join an existing group.
5	Confirm the selection/request submission.
6	Observe the system response confirming the collaboration/group membership.
7	Verify the Student can now access the Chat feature with the new partner/group members
Post-Condition:	
<ul style="list-style-type: none"> • Student is successfully connected with other students in a group or as a partner • How about Communication (Chat) feature is available for the new collaboration 	

3.4 Use-Case Snippets: Publish Assessment



3.4.1 Use-Case Statements: Publish Assessment

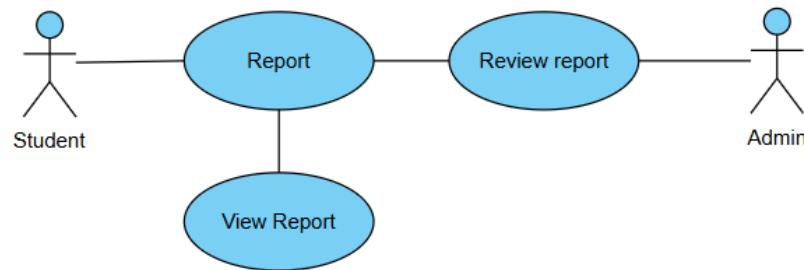
Actor:	Lecturer, Student
Pre-Condition:	<ul style="list-style-type: none"> • Lecturer and student have logged in to the system. • Lecturer has permission to manage assessments. • Assessment details are prepared by the lecturer.
Trigger:	Lecturer selects the “Publish Assessment”
Main Flow:	<ol style="list-style-type: none"> 1. Lecturer creates and publishes an assessment. 2. System stores the assessment details. 3. Students view the published assessment. 4. Students update their assessment progress.
Alternative Flow:	<ol style="list-style-type: none"> 1a) Lecturer creates and publishes an assessment. 1b) Lecturer cancels the publishing process. 3a) Student views assessment details only without updating progress.
Post-Condition:	<ul style="list-style-type: none"> • Assessment is published and visible to students • Assessment is deleted or remains unpublished.

3.4.2 Test Case

TC04 – Publish Assessment

Tested By:	Danial Aimani bin Zambri
Test Type:	Functional Testing
Test Design Technique:	Black Box Testing
Risk Number:	Medium (Core feature for coursework)
Test Case Number:	TC04
Test Case Name:	Publish Assessment Functionality
Requirement Traceability:	Use Case 3.4 (Publish Assessment)
Test Case Description:	Verify that a Lecturer can successfully create and publish a new assessment for students to view.
Item(s) to be tested:	
1	Publish Assessment Page / Form
2	Assessment Database (to verify details are stored)
Pre-Condition:	
<ul style="list-style-type: none"> • Lecturer has successfully logged into the system. • Lecturer has the necessary permissions to manage assessments. • Assessment materials/details are prepared. 	
Specifications	
Input	Expected Output/Result
Assessment Title, Description, Due Date, Files (if applicable).	The system saves the assessment details, updates the status to "Published," and makes the assessment visible to enrolled students.
Test Procedure Steps	
1	Launch browser, navigate to StudyBuddy, and log in as a Lecturer.
2	Navigate to the "Assessments" or "Classwork" dashboard.
3	Click on the "Publish Assessment" or "Create New Assessment" button.
4	Enter the Assessment Title and Description in the respective fields.
5	Select/Enter the Due Date and time.
6	Click the "Publish" or "Submit" button.
7	Observe the success message and verify the assessment appears in the published list (and is visible in the student view).
Post-Condition:	
<ul style="list-style-type: none"> • Assessment is successfully published and visible to Students. • Assessment details are stored in the database. 	

3.5 Use-Case Snippets: Report



3.5.1 Use-Case Statements: Report

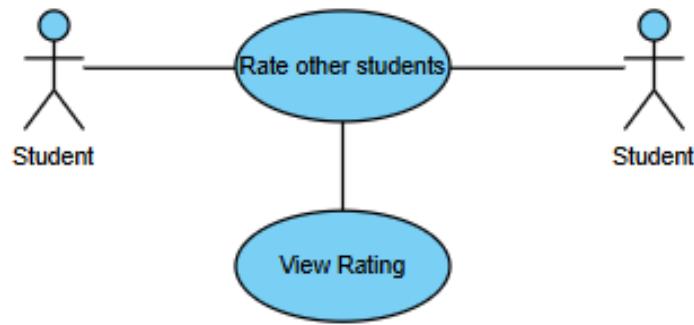
Actor:	Student, Admin
Pre-Condition:	<ul style="list-style-type: none">• Student and admin have logged in to the system• Relevant activity or issue exists to be reported.
Trigger:	Student selects the “Report” option.
Main Flow:	<ol style="list-style-type: none">1. Student submits a report through the system.2. System records the report details.3. Student views the submitted report status.4. Admin reviews the report.
Alternative Flow:	<p>1a) Student cancels the report submission. 4a) Admin rejects or requests additional information for the report.</p>
Post-Condition:	<ul style="list-style-type: none">• Report is successfully reviewed by admin.• Report remains pending or is rejected.

3.5.2 Test Case

TC05 – Report

Tested By:	Danial Aimani bin Zambri
Test Type:	Functional Testing
Test Design Technique:	Black Box Testing
Risk Number:	Medium (Important for feedback/issue resolution)
Test Case Number:	TC05
Test Case Name:	Submit Report Functionality
Requirement Traceability:	Use Case 3.5 (Report)
Test Case Description:	Verify that a student can successfully submit a report regarding an activity or issue to the system.
Item(s) to be tested:	
1	Report Submission Form / Modal
2	Reports Database (to verify submission is recorded)
Pre-Condition:	
<ul style="list-style-type: none"> • Student has successfully logged into the system. • A relevant activity or issue exists that requires reporting. 	
Specifications	
Input	Expected Output/Result
Report Subject/Title, Detailed Description of the issue.	The system records the report details in the database, displays a success notification, and updates the report status to "Pending" (or similar) for the student to view.
Test Procedure Steps	
1	Launch browser, navigate to StudyBuddy, and log in as a student.
2	Locate and click the "Report" option/button (e.g., in the sidebar or footer).
3	Enter a valid Subject or Title for the report.
4	Enter a detailed description of the issue/activity being reported.
5	Click the "Submit Report" button.
6	Observe the system response (success message).
7	Navigate to the "My Reports" or "Status" section to verify the report appears with a "Pending" status.
Post-Condition:	
<ul style="list-style-type: none"> • Report is successfully recorded in the system. • The Report is visible to the Admin for review. 	

3.6 Use-Case Snippets: Rating



3.6.1 Use-Case Statements: Rating

Actor:	Student
Pre-Condition:	<ul style="list-style-type: none">• Student is logged into the system• Student has completed an interaction or collaboration with another student
Trigger:	Student selects the “Rate Student” option after a completed collaboration.
Main Flow:	<ol style="list-style-type: none">1. System displays the rating interface with rating criteria.2. Student selects a rating and optionally enters a comment.3. Student submits the rating.4. System validates the rating input.5. System stores the rating and updates the rated students’ overall rating score.6. System displays a confirmation message.
Alternative Flow:	4a) if invalid input is detected, the system displays an error message and returns the student to rating interface.
Post-Condition:	Rating is successfully recorded and the target student’s overall rating updated.

3.6.2 Test Case

TC06 – Rating

Tested By:	Erika Ezliyana binti Mohd Fazli
Test Type:	Functional Testing
Test Design Technique:	Black Box Testing
Risk Number:	Low (Enhancement feature)
Test Case Number:	TC06
Test Case Name:	Rate Student Functionality
Requirement Traceability:	Use Case 3.6 (Rating)
Test Case Description:	Verify that a student can successfully rate another student after completing a collaboration or interaction.
Item(s) to be tested:	
1	Rating Interface
2	Rating Database (to verify score updates)
Pre-Condition:	
<ul style="list-style-type: none"> • Student is logged into the system. • Student has completed an interaction or collaboration with another student. 	
Specifications	
Input	Expected Output/Result
Valid Rating Score (e.g., 5 stars), Optional Comment.	The system validates the input, stores the rating, updates the target student's overall score, and displays a confirmation message.
Test Procedure Steps	
1	Launch browser, navigate to StudyBuddy, and log in as a student.
2	Navigate to the "History" or "Collaboration" section where completed interactions are listed.
3	Click the "Rate Student" button/option for a specific collaboration partner.
4	Select a rating score (e.g., 4 out of 5 stars) from the interface.
5	(Optional) Enter a comment in the feedback text box.
6	Click the "Submit Rating" button.
7	Observe the confirmation message and verify the rating is recorded in the system.
Post-Condition:	
<ul style="list-style-type: none"> • Rating is successfully recorded. • The target student's overall rating score is updated. 	