



American International University-Bangladesh (AIUB)
Department of Computer Science
Faculty of Science & Technology (FST)

Project Title:
Integrated Application Usage Tracking & Parental Control System

Supervised by:
TONNY SHEKHA KAR

A Software Engineering Project Submitted
By

Semester: Summer_23_24		Section: H	Group Number: 09	
SN	Student Name	Student ID	Contribution (CO3+CO4)	Individual Marks
1	A. F. M. RAFIUL HASSAN	22-47048-1		
2	MD. ASHIKUZZAMAN ABIR	22-47006-1		

Project Name: Integrated Application Usage Tracking & Parental Control System			Test designed by: MD. ASHIKUZZAMAN ABIR	
Test Case ID: UTP-1			Test designed date: 18/09/2024	
Test Priority: High			Test Executed by: A. F. M. RAFIUL HASSAN	
Module Name: The user sign- up session			Test Execution date: 18/09/2024	
Test Title: Verify sign-up with a valid email address, phone number, and unique username, date of birth, and a valid password.				
Description: Test the application sign-up page				
Pre Condition (if any): The user must have a valid email address, and unique username, date of birth, and password				
Test Steps	Test Data	Expected Result	Actual Result	Status(pass/fail)
1. Go to the application 2. Enter email address 3. Enter a phone number 4. Enter username 5. Enter the date of birth 6. Enter password 7. Click the sign-up button	Email: abir.aiub@gmail.com Username: Abir604 Date of Birth: 15/09/2005 Password: amiabirnah	The user should sign up for the application		
Post Condition: The user is validated with the database and successfully signed up for the application. The account session details are saved in the database.				

Project Name: Integrated Application Usage Tracking & Parental Control System			Test designed by: A. F. M. RAFIUL HASSAN	
Test Case ID: UTP-2			Test designed date: 18/09/2024	
Test Priority: High			Test Executed by: A. F. M. RAFIUL HASSAN	
Module Name: Sign In Session			Test Execution date: 18/09/2024	
Test Title: Verify sign-in session with valid email address, and password				
Description: Test the application page				
Pre Condition (if any): User must have a valid email address and password				
Test Steps	Test Data	Expected Result	Actual Result	Status(pass/fail)
1. Go to the sign-in page 2. Enter email address or username 3. Enter password 4. Click the sign in button	Email: rafi.aiub@gmail.com Password: rafibhai	The user should sign-in into the application		
Post Condition: The user is validated with the database and successfully signed in to the application. The account session details are saved in the database.				

Project Name: Integrated Application Usage Tracking & Parental Control System			Test designed by: A. F. M. RAFIUL HASSAN	
Test Case ID: UTP-3			Test designed date: 18/09/2024	
Test Priority: High			Test Executed by: MD. ASHIKUZZAMAN ABIR	
Module Name: OTP Verification			Test Execution date: 19/09/2024	
Test Title: Verify OTP verification process during login.				
Description: Test OTP authentication during login.				
Precondition: The user must receive an OTP after entering valid credentials.				
Test Steps	Test Data	Expected Result	Actual Result	Status(pass/fail)
1. Complete login credentials entry. 2. Wait for OTP. 3. Enter the OTP in the provided field. 4. Submit OTP.	OTP: 8374	The user is successfully authenticated and redirected to the dashboard.		
Post Condition: user access is granted				

Project Name: Integrated Application Usage Tracking & Parental Control System			Test designed by: MD. ASHIKUZZAMAN ABIR	
Test Case ID: UTP-4			Test designed date: 18/09/2024	
Test Priority: Medium			Test Executed by: MD. ASHIKUZZAMAN ABIR	
Module Name: Customize Profile			Test Execution date: 19/09/2024	
Test Title: Verify profile customization functionality				
Description: Test if users can update their profile information and preferences				
Precondition: The user must be logged into the system.				
Test Steps	Test Data	Expected Result	Actual Result	Status(pass/fail)
1. Go to the profile section. 2. Select the "Edit Profile" option. 3. Update personal information (e.g., username, email). 4. Save changes.	New Username: amimosha New Email: mosha.aiub@gmail.com	The user's profile is successfully updated.		
Post Condition: The updated profile is saved in the database.				

Project Name: Integrated Application Usage Tracking & Parental Control System			Test designed by: A. F. M. RAFIUL HASSAN	
Test Case ID: UTP-5			Test designed date: 18/09/2024	
Test Priority: High			Test Executed by: A. F. M. RAFIUL HASSAN	
Module Name: Usage Monitoring			Test Execution date: 19/09/2024	
Test Title: Verify daily app usage monitoring				
Description: Test if the system monitors and logs application usage				
Precondition: The user (child) must be logged into their phone				
Test Steps	Test Data	Expected Result	Actual Result	Status(pass/fail)
1. Go to the usage monitoring section. 2. Select the "Daily Usage Limits" option. 3. Check the app usage logs.	No specific data required.	The system displays a log of app usage.		
Post Condition: The usage history is saved in the system for future reference.				

Project Name: Integrated Application Usage Tracking & Parental Control System			Test designed by: A. F. M. RAFIUL HASSAN	
Test Case ID: UTP-6			Test designed date: 18/09/2024	
Test Priority: High			Test Executed by: MD. ASHIKUZZAMAN ABIR	
Module Name: App Blocking			Test Execution date: 19/09/2024	
Test Title: Verify the app blocking feature				
Description: Test if parents can block specific apps on the child’s device				
Precondition: The user (parent) must have control over the child’s device				
Test Steps	Test Data	Expected Result	Actual Result	Status(pass/fail)
1. Go to the in-app blocking section. 2. Select the apps to block. 3. Apply the block.	App to Block: YouTube	The selected app is successfully blocked on the child’s device.		
Post Condition: The blocked app list is updated in the system.				

Project Name: Integrated Application Usage Tracking & Parental Control System			Test designed by: A. F. M. RAFIUL HASSAN	
Test Case ID: UTP-7			Test designed date: 18/09/2024	
Test Priority: High			Test Executed by: A. F. M. RAFIUL HASSAN	
Module Name: Daily Usage Limits - Management			Test Execution date: 19/09/2024	
Test Title: Verify daily usage with time scheduling				
Description: Test if parents can set screen time limits on the child’s device				
Precondition: The user (parent) must have access to screen time controls				
Test Steps	Test Data	Expected Result	Actual Result	Status(pass/fail)
1. Go to the daily usage limits section. 2. Click on the app that you want to limits. 3. Set time limits for specific apps or the device. 4. Save and set the schedule.	App: Instagram Limit: 2 hours/day	The daily usage is successfully managed, and the child’s access is restricted after reaching the limit.		
Post Condition: The daily usage screen time limits are stored in the database.				

Project Name: Integrated Application Usage Tracking & Parental Control System			Test designed by: MD. ASHIKUZZAMAN ABIR	
Test Case ID: UTP-8			Test designed date: 18/09/2024	
Test Priority: Medium			Test Executed by: A. F. M. RAFIUL HASSAN	
Module Name: Application Access Request			Test Execution date: 20/09/2024	
Test Title: Verify access request approval from child’s device				
Description: Test if the child can send an access request to parents for new application				
Precondition: The child must have restricted access				
Test Steps	Test Data	Expected Result	Actual Result	Status(pass/fail)
1. Child attempts to use a restricted app. 2. Child sends an access request. 3. Parent receives the request. 4. Parent approves or denies the request.	App: Instagram	The access request is processed, and the parent can approve or deny it.		
Post Condition: The access request status is updated in the system.				

Project Name: Integrated Application Usage Tracking & Parental Control System			Test designed by: MD. ASHIKUZZAMAN ABIR	
Test Case ID: UTP-9			Test designed date: 18/09/2024	
Test Priority: High			Test Executed by: A. F. M. RAFIUL HASSAN	
Module Name: Location Tracking			Test Execution date: 20/09/2024	
Test Title: Verify location tracking of child’s device				
Description: Test if the system accurately tracks the child’s device location and sends alerts for geofencing violations.				
Precondition: The child’s device must have GPS enabled, and the user must have location tracking permissions.				
Test Steps	Test Data	Expected Result	Actual Result	Status(pass/fail)
1. Go to the location tracking section. 2. Enable location tracking for the child’s device. 3. Set a geofencing area (e.g., home, school). 4. Check the location logs and alerts.	Geofencing Area: Home (100m radius)	The system accurately tracks the child’s location and sends an alert when they leave the geofenced area.		
Post Condition: The location history is logged, and alerts are sent to the parent if the child exits the geofenced area.				

Project Name: Integrated Application Usage Tracking & Parental Control System			Test designed by: MD. ASHIKUZZAMAN ABIR	
Test Case ID: UTP-10			Test designed date: 18/09/2024	
Test Priority: Medium			Test Executed by: MD. ASHIKUZZAMAN ABIR	
Module Name: Customization			Test Execution date: 20/09/2024	
Test Title: Verify customization feature functionality				
Description: Test if the user can able to change the theme and language properly.				
Precondition: The user must have signed in.				
Test Steps	Test Data	Expected Result	Actual Result	Status(pass/fail)
1. Go to the Customization section. 2. Press the theme button. 3. Press the language button. 4. Verify if the feature performs properly.	No specific data required.	The user successfully changed the language or theme.		
Post Condition: The emergency event is logged in the system, and the parent is notified.				

Project Name: Integrated Application Usage Tracking & Parental Control System			Test designed by: MD. ASHIKUZZAMAN ABIR	
Test Case ID: UTP-11			Test designed date: 18/09/2024	
Test Priority: High			Test Executed by: A. F. M. RAFIUL HASSAN	
Module Name: Role-Based Dashboard			Test Execution date: 20/09/2024	
Test Title: Verify dashboard access for non-parent users.				
Description: Test role-based access restrictions.				
Precondition: Child user signs into the device.				
Test Steps	Test Data	Expected Result	Actual Result	Status(pass/fail)
1. Sign in with child credentials. 2. Attempt to access the parental dashboard.	User Role: Child.	Access is denied, reinforcing role-based restrictions.		
Post Condition: Child cannot modify settings.				

Project Name: Integrated Application Usage Tracking & Parental Control System			Test designed by: MD. ASHIKUZZAMAN ABIR	
Test Case ID: UTP-12			Test designed date: 18/09/2024	
Test Priority: Medium			Test Executed by: A. F. M. RAFIUL HASSAN	
Module Name: Sign-out			Test Execution date: 20/09/2024	
Test Title: Verify the sign-out functionality				
Description: Test if users can successfully sign out of the parental control app.				
Precondition: The user must be signed into the system.				
Test Steps	Test Data	Expected Result	Actual Result	Status(pass/fail)
1. Go to the profile or settings section. 2. Select the "sign out" option. 3. Confirm the signout action.	No specific data required.	The user is successfully signed out of the application.		
Post Condition: The session is terminated, and the user is redirected to the sign-in page.				