Project Name	BTS
Module Name	QR Ticket Generation
Created By	Ajay Sah
Created Date	23-Sep-2024
Project URL	
Peer Received By	Sagar

Test Case Id	Test Case Title	Test Case Description	Precondition	Steps	Test Data	Expected Result	Actual Result	Status
Test Case_QRTG_001	QR Code Generation	Verify the QR code generation after successful payment.	Payment has been successfully completed for a journey.	1.Open the App. 2.Navigate to Ticket Booking page. 3. Complete a payment for the selected journey 4 Navigate to the "My Bookings" page 5. Check if the ticket has a generated QR code	Journey: [Route Name] Date: [Booking Date] Fare: [Amount]	QR code is generated, and it contains journey details (route, fare, date, time, and unique identifier).		
Test Case_QRTG_002	QR Code Details	Verify the QR code details are correct.	Payment has been successfully completed for a journey QR code is generated.	1. Complete payment for the journey 2. Access the QR code generated in the ticket 3. Scan the QR code and verify the information	Journey: [Route Name] Fare: [Amount] Time: [Departure Time]	The QR code should contains correct details such as route fare, date, time, and unique identifier.		
Test Case_QRTG_003	QR Code Display	Verify the QR code is displayed properly on the booking page	Payment has been successfully completed for a journey QR code is generated.	1.Open the App. 2. Navigate to "My Bookings" page 3. Select the recent booking 4. Check if the QR code is displayed properly on the booking page	N/A	QR code should visible and displayed properly on the booking page.		
Test Case_QRTG_004	Unique QR Codes	Verify the QR code is unique for each booking.	Payment has been successfully completed for multiple bookings.	1. Complete two separate bookings 2. Access the QR codes for both bookings 3. Compare the QR codes	Booking 1: [Route, Date, Time] Booking 2: [Route, Date, Time]	QR codes are unique for each booking and contain different unique identifiers.		
Test Case_QRTG_005	QR Code Scannability	Verify the ability to scan the QR code from the mobile app.	Payment has been successfully completed, and a QR code is generated.	1. Open the mobile app 2. Access the QR code from the booking page 3. Scan the QR code with a QR scanner	N/A	The QR code should be scannable, and it correctly shows the booking details upon scanning.		
Test Case_QRTG_006	QR Code Sharing	Verify the QR code ticket can be shared.	Payment has been successfully completed, and a QR code is generated.	1. Open the mobile app 2. Navigate to "My Bookings" 3. Use the share option to share the QR code via email	N/A	QR code ticket is successfully shared via email or messaging app.		
Test Case_QRTG_007	QR Code Generation Error	Verify the error message for failed QR code generation.	There is a system issue that prevents QR code generation	1. Complete the payment for a journey 2. Check if QR code is generated	N/A	An error message is displayed indicating the failure to generate the QR code.		

Project Name	BTS
Module Name	Ticket Confirmation
Created By	Ajay Sah
Created Date	23-Sep-2024
Project URL	
Peer Received By	Sagar

Test Case Id	Test Case Title	Test Case Description	Precondition	Steps	Expected Result	Actual Result	Status
Test Case_TC_001	Ticket Confirmation and QR code generation	Verify the Ticket Confirmation and QR code generation.	User has booked a ticket.	1.Open the App. 2. Complete the booking process. 3. Check for confirmation message on the app. 4. Verify QR code is displayed. 5. Check email/SMS for confirmation	- Booking confirmed message displayed. - QR code should visible on the screen. - Confirmation message received via email/SMS with QR details.		
Test Case_TC_002	Email Confirmation.	Verify the email confirmation message content.	User has booked a ticket.	1. Complete the booking process. 2. Check the email for the confirmation message.	- Email received. - Content includes booking details and QR code information.		
Test Case_TC_003	SMS Confirmation.	Verify the SMS confirmation message content.	User has booked a ticket.	1. Complete the booking process. 2. Check SMS for confirmation message.	- SMS received. - Content includes booking details and QR code information.		
Test Case_TC_004	QR code Functionality.	Verify the QR code functionality.	User has booked a ticket.	1. Display the generated QR code. 2. Scan the QR code using a QR scanner app.	- QR code scans successfully and displays correct ticket information.		
Test Case_TC_005	Booking Confirmation	Verify the booking confirmation is shown immediately after booking.	User is on booking confirmation page.	1. Complete the booking process. 2. Observe the confirmation message displayed.	- Confirmation message appears instantly after booking.		

Project Name	BTS
Module Name	Boarding Pass
Created By	Ajay Sah
Created Date	23-Sep-2024
Project URL	
Peer Received By	Sagar

Test Case Id	Test Case Title	Test Case Description	Precondition	Steps	Expected Result	Actual Result	Status
Test Case_BP_001	QR Code Boarding.	.	Passenger has a valid QR code ticket.	1. Arrive at boarding location 2. Present QR code to conductor or AFC reader 3. Wait for scanning	Ticket should be validated, and boarding is allowed.		
Test Case_BP_002	QR Code Boarding.	Verify the boarding with an invalid QR code.	Passenger has an invalid QR code ticket.	1. Arrive at boarding location 2. Present QR code to conductor or AFC reader 3. Wait for scanning	Ticket is not validated, and boarding is denied.		
Test Case_BP_003	QR Code Boarding.	Verify the boarding process with expired QR code.	Passenger has an expired QR code ticket.	1. Arrive at boarding location 2. Present expired QR code to conductor or AFC reader 3. Wait for scanning	Ticket is not validated, and boarding is denie.		
Test Case_BP_004	Multi-Device QR Code Scanning.	Verify the scanning process on different devices.	Passenger has a valid QR code ticket.	1. Use a mobile device to present QR code 2. Use a smartwatch to present QR code 3. Use a tablet to present QR code	All devices are scanned successfully; boarding allowed.		

		Project Name	BTS				
		Module Name	QR Validation				
		Created By	Ajay Sah				
		Created Date	23-Sep-2024				
		Project URL					
		Peer Received By	Sagar				

Test Case Id	Test Case Title	Test Case Description	Precondition	Steps	Expected Result	Actual Result	Status
Test Case_BP_001	Validate QR Code on Ticket	Verify that the QR code on the ticket is valid and recognized by the scanner.	QR code printed on ticket.	1. Scan the QR code on the ticket using the conductor's scanner. 2. Observe the scanner's response.	QR code is successfully validated and marked as legitimate.		
Test Case_BP_002	Expired QR code.	Check that an expired QR code is not accepted.	Expired QR code on ticket	1. Scan a ticket with an expired QR code. 2. Observe the scanner's response.	Scanner should indicates that the QR code is expired and invalid.		
Test Case_BP_003	Tampered QR Code	Verify that a tampered QR code is detected as invalid.	QR code printed on ticket.	1. Alter the QR code on the ticket. 2. Scan the modified QR code. 3. Observe the response.	Scanner identifies the QR code as tampered and invalid.		

	Project Name	BTS
	Module Name	Journey Completion.
	Created By	Ajay Sah
	Created Date	24-Sep-2024
	Project URL	
	Peer Received By	Sagar

Test Case Id	Test Case Title	Test Case Description	Precondition	Steps	Expected Result	Actual Result	Status
Test Case_JC_001	Verify Journey Completion Process.	Ensure the system marks the journey as complete and deducts fare correctly.	User has completed a journey and is at the destination.	1. Open the mobile application. 2. Navigate to the check-out screen. 3. Present the QR code.	Journey should marked as completed, and the fare is deducted according to predefined rules.		
Test Case_JC_002	Verify Fare Deduction Accuracy.	Ensure the fare deducted is accurate based on predefined rules.	User has completed a journey and is at the destination.	1. Open the mobile application. 2. Navigate to the check-out screen. 3. Present the valid QR code.	Fare deducted matches the fare calculated based on the journey distance and time.		
Test Case_JC_003	Validate User Notification After Completion	Ensure the user receives a notification after successful check-out.	User has completed a journey and is at the destination.	1. Open the mobile application. 2. Navigate to the check-out screen. 3. Present the QR code.	User should receives a confirmation notification after the journey is marked complete.		
Test Case_JC_004	Check Journey Completion Without QR Code.	Verify the system's behavior when no QR code is presented.	User has completed a journey and is at the destination.	1. Open the mobile application. 2. Navigate to the check-out screen. 3. Do not present a QR code.	Error message should displayed indicating QR code is required , and the journey is not completed.		
Test Case_JC_005	Test System Time-out for Check-Out.	Verify if the system times out after a period of inactivity.	User has completed a journey and is at the destination.	1. Open the mobile application. 2. Navigate to the check-out screen. 3. Present the QR code and wait for a predefined timeout.	System times out and returns to the main menu, requiring the user to start the check-out process again.		

	Project Name	BTS
	Module Name	QR Ticket Expiry.
	Created By	Ajay Sah
	Created Date	24-Sep-2024
	Project URL	
	Peer Received By	Sagar

Test Case Id	Test Case Title	Test Case Description	Precondition	Steps	Expected Result	Actual Result	Status
Test Case_QRE_001	QR Code Ticket Expiry After Journey Completion.	Validate that a QR code ticket expires after the journey is completed.	User has a valid QR code ticket for a specific journey	1. User logs into the ticketing application. 2. User retrieves the QR code ticket for the scheduled journey. 3. User scans the QR code ticket at the entry point before the journey starts. 4. User completes the journey. 5. Wait until the journey end time. 6. Attempt to reuse the QR code ticket by scanning it again at a different entry point.	The QR code ticket should successfully scanned for entry. User completes the journey. The system rejects the ticket and indicates it has expired on reuse.		
Test Case_QRE_002	Verify QR Code Ticket Validity Before Journey.	Ensure the QR code ticket is valid before the journey starts.	User has a valid QR code ticket for an upcoming jour	1. User logs into the ticketing application. 2. User retrieves the QR code ticket. 3. Attempt to scan the QR code ticket at the entry point before the journey starts.	The QR code ticket is successfully scanned, allowing user entry before the journey starts.		
Test Case_QRE_003	Verify User Notification for Expiry.	Ensure users are notified about ticket expiration.	User has a valid QR code ticket for a journey.	1. User logs into the ticketing application. 2. User retrieves the QR code ticket. 3. Wait until the ticket is about to expire.	User receives a notification alerting them that the QR code ticket is about to expire..		

Project Name	BTS				
Module Name	Ticket History				
Created By	Ajay Sah				
Created Date	24-Sep-2024				
Project URL					
Peer Received By	Sagar				

Test Case Id	Test Case Title	Test Case Description	Precondition	Steps	Expected Result	Actual Result	Status
Test Case_TH_001	Ticket History Retrieval	Validate that users can access their past QR code tickets in the app.	User has previously booked at least one QR code ticket.	1. User logs into the ticketing application. 2. Navigate to the "Ticket History" section. 3. View the list of past QR code tickets.	User can see a list of past QR code tickets with details (date, journey, ticket ID).		
Test Case_TH_002	Details in Ticket History	Ensure that the details of each past QR code ticket are correct.	User has accessed the Ticket History.	1. User logs into the ticketing application. 2. Navigate to "Ticket History". 3. Select a past ticket to view details.	Detailed information should displayed accurately (date, time, origin, destination, ticket ID).		

Project Name		BTS					
Module Name		User Support and Notifications:					
Created By		Ajay Sah					
Created Date		24-Sep-2024					
Project URL							
Peer Received By		Sagar					

Test Case Id	Test Case Title	Test Case Description	Precondition	Steps	Expected Result	Actual Result	Status
Test Case_USN_001	Support Feature Verification	Verify support feature for assistance	User has a booking	1. Log into the app with valid credentials. 2. Navigate to the support section from the main menu. 3. Locate the query submission form. 4. Fill in the query details. 5. Click the "Submit" button.	Confirmation message for query submission		
Test Case_USN_002	Real-Time Booking Notifications	Check real-time booking notifications	User has a booking	1. Log into the app with valid credentials. 2. Navigate to the booking section. 3. Select desired options (date, destination, etc.). 4. Complete the booking process. 5. Wait for the booking confirmation notification to appear.	Receive booking confirmation notification		
Test Case_USN_003	Transaction Logs Access	Admin access to transaction logs	Admin is logged in	1. Log into the Admin Portal with valid admin credentials. 2. Navigate to the "Reports" section from the dashboard. 3. Click on "Transaction Logs". 4. Review the displayed transaction logs for accuracy.	Transaction logs displayed correctly		
Test Case_USN_004	Add New Bus Station	Create a new bus station in Admin Portal	Admin is logged in	1. Log into the Admin Portal with valid admin credentials. 2. Go to "Station Management" from the main menu. 3. Click on "Add New Station". 4. Fill in the required station details (name, location, etc.). 5. Click "Save" to add the station.	New station added successfully		
Test Case_USN_005	Route Creation	Define a new route	Admin is logged in	1. Log into the Admin Portal with valid admin credentials. 2. Navigate to "Route Creation" from the dashboard. 3. Enter route details (starting point, destination, stops, etc.). 4. Click "Create" to save the new route.	Route created successfully		
Test Case_USN_006	Vehicle Management	Manage vehicle details	Admin is logged in	1. Log into the Admin Portal with valid admin credentials. 2. Go to "Vehicle Management" from the main menu. 3. Click on "Add New Vehicle". 4. Enter the vehicle details (make, model, license plate, etc.). 5. Click "Save" to add the vehicle.	Vehicle details added successfully		
Test Case_USN_007	Fare Structure Configuration	Set up fare structure	Admin is logged in	1. Log into the Admin Portal with valid admin credentials. 2. Navigate to "Fare Setup" from the dashboard. 3. Choose the fare type to configure. 4. Enter the fare details (amount, discounts, etc.). 5. Click "Update" to save the fare structure.	Fare structure updated successfully		
Test Case_USN_008	Teller Assignment	Assign tellers to stations	Admin is logged in	1. Log into the Admin Portal with valid admin credentials. 2. Navigate to "Teller Assignment". 3. Select the station for which you want to assign tellers. 4. Choose the teller from the list. 5. Click "Assign" to complete the assignment.	Teller assigned successfully		
Test Case_USN_009	Mobile Booking Process	Mobile app booking	User is logged in	1. Open the mobile app and log in with valid credentials. 2. Navigate to the booking section. 3. Select the trip details (date, route, etc.). 4. Complete the booking process. 5. Wait for the booking confirmation QR code to be generated.	Booking confirmed with QR code generated		
Test Case_USN_010	Web Portal Booking Process	Web portal booking	User is logged in	1. Open the web portal and log in with valid credentials. 2. Go to the booking section. 3. Enter trip details (date, destination, etc.). 4. Complete the booking process. 5. Confirm that the QR code is generated upon booking completion.	Booking confirmed with QR code generated		
Test Case_USN_011	Seat Selection Validation	Validate seat selection	User is booking	1. Log into the booking system with valid credentials. 2. Start a new booking. 3. Select your desired seat from the seating layout. 4. Click "Proceed to Payment". 5. Verify that the selected seat is confirmed on the payment page.	Selected seat is confirmed		
Test Case_USN_012	Wallet Payment Processing	Payment via wallet	User has sufficient balance	1. Log into the app with sufficient wallet balance. 2. Choose the booking option and select wallet as the payment method. 3. Review the payment details. 4. Click "Confirm Payment". 5. Check for a successful payment confirmation message.	Payment processed successfully		
Test Case_USN_013	Wallet Top-Up Functionality	Top-up wallet balance	User is logged in	1. Log into the app with valid credentials. 2. Navigate to the wallet section. 3. Click on "Top-Up" option. 4. Enter the amount to add. 5. Confirm the transaction and check for a successful balance update.	Wallet balance updated successfully		
Test Case_USN_014	QR Code Validation via Driver App	Validate QR code using driver app	Driver is logged in	1. Open the driver app and log in with valid credentials. 2. Navigate to the QR code scanning section. 3. Use the camera to scan the passenger's QR code. 4. Wait for the app to process the code. 5. Confirm that the booking is verified successfully.	Booking verified successfully		

Test Case_USN_015	Offline QR Code Validation	Offline QR validation	Driver in an offline area	1. Open the driver app in an offline area. 2. Navigate to the offline validation section. 3. Manually enter the QR code details if necessary. 4. Click "Validate". 5. Ensure that the booking is validated without requiring an internet connection.	Booking validated without internet		
Test Case_USN_016	Booking Confirmation Email	Email notifications for bookings	User has made a booking	1. Make a booking in the app or web portal. 2. Log into the email account associated with the booking. 3. Check the inbox for a booking confirmation email. 4. Open the email and verify that the details are correct.	Email received with booking confirmation		
Test Case_USN_017	Passenger Delay Notification	Notify passenger of delays	Scheduled journey has a delay	1. Simulate a scheduled journey delay in the system. 2. Wait for the notification trigger. 3. Check the app for delay notifications. 4. Confirm that the passenger is notified of the delay successfully.	Passenger notified of delay successfully		