

CORADS Manual Test Cases Suite

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Prepared by: Senior Software Quality Engineer

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Project: Car On Roads Advertisement System (CORADS)

Test Case Overview

This document contains comprehensive manual test cases for the CORADS system covering:

- Advertiser Module (42 test cases)
- Driver Module (38 test cases)
- Admin Module (35 test cases)
- Campaign Management (28 test cases)
- Payment System (15 test cases)
- Tracking System (18 test cases)
- Support System (12 test cases)
- Non-Functional Requirements (25 test cases)

Total Test Cases: 213

1. ADVERTISER MODULE TEST CASES

1.1 Registration and Authentication

Field	Details
Requirement Reference	FR-1
Test Case ID	TC_ADV_001
Test Title/Objective	Verify advertiser registration functionality
Preconditions	CORADS advertiser app is installed and launched
Test Steps	1. Launch advertiser application 2. Navigate to registration screen 3. Fill all required fields (name, email, phone, password) 4. Submit registration form 5. Verify OTP screen appears
Expected Results	Registration form accepts valid data and navigates to OTP verification screen

Field	Details
Actual Results	[To be filled by tester]
Priority	High
Type	Functional
Environment	Android device (API 23+), Internet connectivity

Field	Details
Requirement Reference	FR-2
Test Case ID	TC_ADV_002
Test Title/Objective	Verify OTP verification during registration
Preconditions	Advertiser has completed registration form
Test Steps	1. Enter valid OTP received via SMS 2. Click verify button 3. Observe system response
Expected Results	Valid OTP is accepted and user is redirected to login screen with success message
Actual Results	[To be filled by tester]
Priority	High
Type	Functional
Environment	Android device, SMS capability

Field	Details
Requirement Reference	FR-2
Test Case ID	TC_ADV_003
Test Title/Objective	Verify invalid OTP handling
Preconditions	Advertiser is on OTP verification screen
Test Steps	1. Enter invalid OTP (wrong digits) 2. Click verify button 3. Observe system response
Expected Results	System displays error message "Invalid OTP" and allows retry
Actual Results	[To be filled by tester]
Priority	High
Type	Functional
Environment	Android device

Field	Details
Requirement Reference	FR-3
Test Case ID	TC_ADV_004
Test Title/Objective	Verify advertiser login with valid credentials
Preconditions	Advertiser account exists and is verified
Test Steps	1. Launch advertiser app 2. Enter valid username/email 3. Enter valid password 4. Click login button
Expected Results	User is successfully logged in and redirected to dashboard
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Android device, Internet connectivity

Field	Details
Requirement Reference	FR-3
Test Case ID	TC_ADV_005
Test Title/Objective	Verify login failure with invalid credentials
Preconditions	Advertiser app is launched
Test Steps	1. Enter invalid username/email 2. Enter invalid password 3. Click login button
Expected Results	System displays error message "Invalid credentials" and remains on login screen
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Android device

Field	Details
Requirement Reference	FR-4
Test Case ID	TC_ADV_006
Test Title/Objective	Verify forgot password functionality
Preconditions	Advertiser is on login screen
Test Steps	1. Click "Forgot Password" link 2. Enter registered email address 3. Click submit 4. Check email for reset link 5. Click reset link and set new password
Expected Results	Password reset email is sent and password can be successfully reset
Actual Results	<i>[To be filled by tester]</i>
Priority	Medium
Type	Functional
Environment	Android device, Email access

1.2 Profile Management

Field	Details
Requirement Reference	FR-5
Test Case ID	TC_ADV_007
Test Title/Objective	Verify profile information display
Preconditions	Advertiser is logged in
Test Steps	1. Navigate to profile section 2. Verify all profile fields are displayed correctly
Expected Results	Profile displays name, email, phone, and other registered information accurately
Actual Results	<i>[To be filled by tester]</i>
Priority	Medium
Type	Functional
Environment	Android device

Field	Details
Requirement Reference	FR-6
Test Case ID	TC_ADV_008
Test Title/Objective	Verify profile information update
Preconditions	Advertiser is logged in and on profile screen
Test Steps	1. Click edit profile 2. Update name field 3. Update phone number 4. Save changes 5. Verify updated information
Expected Results	Profile information is successfully updated and displayed correctly
Actual Results	<i>[To be filled by tester]</i>
Priority	Medium
Type	Functional
Environment	Android device

1.3 Wallet Management

Field	Details
Requirement Reference	FR-7
Test Case ID	TC_ADV_009
Test Title/Objective	Verify wallet balance display
Preconditions	Advertiser is logged in
Test Steps	1. Navigate to wallet section 2. Verify current balance is displayed 3. Check balance format and currency
Expected Results	Wallet balance is displayed correctly with proper formatting
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Android device

Field	Details
Requirement Reference	FR-8
Test Case ID	TC_ADV_010
Test Title/Objective	Verify transaction history display
Preconditions	Advertiser has wallet with transaction history
Test Steps	1. Navigate to wallet section 2. Click transaction history 3. Verify list displays transactions with dates, amounts, and descriptions
Expected Results	Transaction history shows all past transactions with complete details
Actual Results	<i>[To be filled by tester]</i>
Priority	Medium
Type	Functional
Environment	Android device

Field	Details
Requirement Reference	FR-9
Test Case ID	TC_ADV_011
Test Title/Objective	Verify wallet recharge via JAZZ CASH
Preconditions	Advertiser is logged in with JAZZ CASH account
Test Steps	1. Navigate to wallet section 2. Click recharge wallet 3. Select JAZZ CASH option 4. Enter recharge amount 5. Complete JAZZ CASH payment process
Expected Results	Wallet is successfully recharged and balance is updated
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Android device, JAZZ CASH account

Field	Details
Requirement Reference	FR-10
Test Case ID	TC_ADV_012
Test Title/Objective	Verify wallet recharge via vouchers
Preconditions	Advertiser is logged in with valid voucher code
Test Steps	1. Navigate to wallet section 2. Click recharge wallet 3. Select voucher option 4. Enter valid voucher code 5. Submit voucher
Expected Results	Voucher is accepted and wallet balance is increased by voucher value
Actual Results	<i>[To be filled by tester]</i>
Priority	Medium
Type	Functional
Environment	Android device

1.4 Campaign Management

Field	Details
Requirement Reference	FR-11
Test Case ID	TC_ADV_013
Test Title/Objective	Verify campaign creation functionality
Preconditions	Advertiser is logged in with sufficient wallet balance
Test Steps	1. Navigate to create campaign 2. Enter campaign title and description 3. Select target location 4. Set campaign duration 5. Specify number of cars 6. Upload advertisement images 7. Submit campaign
Expected Results	Campaign is created successfully and appears in pending campaigns
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Android device, Image files

Field	Details
Requirement Reference	FR-12
Test Case ID	TC_ADV_014
Test Title/Objective	Verify campaign parameter specification
Preconditions	Advertiser is on campaign creation form
Test Steps	1. Test target location selection with map interface 2. Test duration setting with date/time picker 3. Test number of cars input validation 4. Test multiple image upload functionality
Expected Results	All campaign parameters can be set correctly with proper validation
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Android device

Field	Details
Requirement Reference	FR-13
Test Case ID	TC_ADV_015
Test Title/Objective	Verify active campaigns display
Preconditions	Advertiser has active campaigns
Test Steps	1. Navigate to campaigns section 2. Click active campaigns tab 3. Verify list displays all active campaigns with status
Expected Results	Active campaigns are displayed with current status and progress information
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Android device

Field	Details
Requirement Reference	FR-14
Test Case ID	TC_ADV_016
Test Title/Objective	Verify pending campaigns display
Preconditions	Advertiser has pending campaigns
Test Steps	1. Navigate to campaigns section 2. Click pending campaigns tab 3. Verify list displays all pending campaigns
Expected Results	Pending campaigns are displayed with submission date and status
Actual Results	<i>[To be filled by tester]</i>
Priority	Medium
Type	Functional
Environment	Android device

Field	Details
Requirement Reference	FR-15
Test Case ID	TC_ADV_017
Test Title/Objective	Verify completed campaigns display
Preconditions	Advertiser has completed campaigns
Test Steps	1. Navigate to campaigns section 2. Click completed campaigns tab 3. Verify list displays completed campaigns with results
Expected Results	Completed campaigns show final results, analytics, and performance metrics
Actual Results	<i>[To be filled by tester]</i>
Priority	Medium
Type	Functional
Environment	Android device

Field	Details
Requirement Reference	FR-16
Test Case ID	TC_ADV_018
Test Title/Objective	Verify real-time driver tracking
Preconditions	Advertiser has active campaign with assigned drivers
Test Steps	1. Select active campaign 2. Click track drivers option 3. Verify map displays driver locations 4. Check real-time location updates
Expected Results	Map shows current driver locations with real-time updates
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Android device, GPS enabled

1.5 Support and Communication

Field	Details
Requirement Reference	FR-17
Test Case ID	TC_ADV_019
Test Title/Objective	Verify customer support contact functionality
Preconditions	Advertiser is logged in
Test Steps	1. Navigate to support section 2. Click contact support 3. Fill support form with query 4. Submit support request
Expected Results	Support request is submitted successfully and ticket ID is generated
Actual Results	<i>[To be filled by tester]</i>
Priority	Medium
Type	Functional
Environment	Android device

Field	Details
Requirement Reference	FR-18
Test Case ID	TC_ADV_020
Test Title/Objective	Verify driver status inquiry
Preconditions	Advertiser has campaigns with assigned drivers
Test Steps	1. Navigate to active campaign 2. Select driver from list 3. Click inquire status 4. Verify driver status information is displayed
Expected Results	Driver status, location, and campaign progress are displayed accurately
Actual Results	<i>[To be filled by tester]</i>
Priority	Medium
Type	Functional
Environment	Android device

2. DRIVER MODULE TEST CASES

2.1 Registration and Authentication

Field	Details
Requirement Reference	FR-19
Test Case ID	TC_DRV_001
Test Title/Objective	Verify driver registration functionality
Preconditions	CORADS driver app is installed and launched
Test Steps	1. Launch driver application 2. Navigate to registration screen 3. Fill required fields (name, email, phone, license number, car details) 4. Upload required documents 5. Submit registration
Expected Results	Registration is submitted successfully and pending verification message is shown
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Android device, Document images

Field	Details
Requirement Reference	FR-20
Test Case ID	TC_DRV_002
Test Title/Objective	Verify driver login functionality
Preconditions	Driver account exists and is approved
Test Steps	1. Launch driver app 2. Enter valid credentials 3. Click login button
Expected Results	Driver is successfully logged in and redirected to dashboard
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Android device

Field	Details
Requirement Reference	FR-21
Test Case ID	TC_DRV_003
Test Title/Objective	Verify driver sign out functionality
Preconditions	Driver is logged in
Test Steps	1. Navigate to profile/settings 2. Click sign out 3. Confirm sign out action
Expected Results	Driver is signed out and redirected to login screen
Actual Results	<i>[To be filled by tester]</i>
Priority	Medium
Type	Functional
Environment	Android device

2.2 Profile Management

Field	Details
Requirement Reference	FR-22
Test Case ID	TC_DRV_004
Test Title/Objective	Verify driver profile information display
Preconditions	Driver is logged in
Test Steps	1. Navigate to profile section 2. Verify all profile information is displayed correctly
Expected Results	Profile shows name, contact info, car details, and verification status
Actual Results	<i>[To be filled by tester]</i>

Field	Details
Priority	Medium
Type	Functional
Environment	Android device

Field	Details
Requirement Reference	FR-23
Test Case ID	TC_DRV_005
Test Title/Objective	Verify profile information update
Preconditions	Driver is logged in and on profile screen
Test Steps	1. Click edit profile 2. Update contact information 3. Save changes 4. Verify updates are reflected
Expected Results	Profile information is successfully updated
Actual Results	<i>[To be filled by tester]</i>
Priority	Medium
Type	Functional
Environment	Android device

Field	Details
Requirement Reference	FR-24
Test Case ID	TC_DRV_006
Test Title/Objective	Verify vehicle image upload
Preconditions	Driver is logged in and on profile screen
Test Steps	1. Navigate to vehicle section 2. Click add/update vehicle images 3. Select images from gallery or capture new 4. Upload images 5. Verify images are saved
Expected Results	Vehicle images are successfully uploaded and displayed in profile
Actual Results	<i>[To be filled by tester]</i>
Priority	Medium
Type	Functional
Environment	Android device, Camera access

2.3 Campaign Interaction

Field	Details
Requirement Reference	FR-25
Test Case ID	TC_DRV_007
Test Title/Objective	Verify campaign request reception
Preconditions	Driver is logged in and available for campaigns
Test Steps	1. Wait for campaign request notification 2. Open notification 3. Verify campaign details are displayed
Expected Results	Campaign request is received with complete details (location, duration, payment)
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Android device, Push notifications enabled

Field	Details
Requirement Reference	FR-26
Test Case ID	TC_DRV_008
Test Title/Objective	Verify campaign acceptance
Preconditions	Driver has received campaign request
Test Steps	1. Review campaign details 2. Click accept button 3. Confirm acceptance 4. Verify campaign is added to active list
Expected Results	Campaign is accepted and driver receives installation center details
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Android device

Field	Details
Requirement Reference	FR-26
Test Case ID	TC_DRV_009
Test Title/Objective	Verify campaign rejection
Preconditions	Driver has received campaign request
Test Steps	1. Review campaign details 2. Click reject button 3. Provide rejection reason if required 4. Confirm rejection
Expected Results	Campaign is rejected and driver remains available for other campaigns
Actual Results	[To be filled by tester]
Priority	Medium
Type	Functional
Environment	Android device

Field	Details
Requirement Reference	FR-27
Test Case ID	TC_DRV_010
Test Title/Objective	Verify navigation to installation center
Preconditions	Driver has accepted campaign
Test Steps	1. Open accepted campaign 2. Click navigate to installation center 3. Verify map navigation opens 4. Follow navigation route
Expected Results	Navigation opens with accurate route to installation center
Actual Results	[To be filled by tester]
Priority	High
Type	Functional
Environment	Android device, GPS enabled, Google Maps

Field	Details
Requirement Reference	FR-28
Test Case ID	TC_DRV_011
Test Title/Objective	Verify campaign start after installation
Preconditions	Driver has reached installation center and advertisement is installed
Test Steps	1. Confirm arrival at installation center 2. Wait for installation completion 3. Click start campaign 4. Verify campaign status changes to active
Expected Results	Campaign starts successfully and tracking begins
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Android device, Installation center

Field	Details
Requirement Reference	FR-29
Test Case ID	TC_DRV_012
Test Title/Objective	Verify campaign activity recording
Preconditions	Driver has active campaign running
Test Steps	1. Drive around designated area 2. Verify app records movement 3. Check activity log 4. Verify location and time stamps
Expected Results	Campaign activities are recorded with accurate location and timing data
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Android device, GPS enabled, Vehicle

Field	Details
Requirement Reference	FR-30
Test Case ID	TC_DRV_013
Test Title/Objective	Verify verification image upload
Preconditions	Driver has active campaign and is prompted for verification
Test Steps	1. Receive verification prompt 2. Capture photo of vehicle with advertisement 3. Verify location is captured with image 4. Upload verification image
Expected Results	Verification image is uploaded successfully with location data
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Android device, Camera, GPS enabled

2.4 Wallet Management

Field	Details
Requirement Reference	FR-31
Test Case ID	TC_DRV_014
Test Title/Objective	Verify driver wallet balance display
Preconditions	Driver is logged in
Test Steps	1. Navigate to wallet section 2. Verify current balance is displayed 3. Check balance accuracy against completed campaigns
Expected Results	Wallet balance is displayed accurately with proper formatting
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Android device

Field	Details
Requirement Reference	FR-32
Test Case ID	TC_DRV_015
Test Title/Objective	Verify earnings history display
Preconditions	Driver has completed campaigns with earnings
Test Steps	1. Navigate to wallet section 2. Click earnings history 3. Verify list shows all earnings with campaign details
Expected Results	Earnings history displays all payments with campaign references and dates
Actual Results	<i>[To be filled by tester]</i>
Priority	Medium
Type	Functional
Environment	Android device

2.5 Support and Communication

Field	Details
Requirement Reference	FR-33
Test Case ID	TC_DRV_016
Test Title/Objective	Verify help center access
Preconditions	Driver is logged in
Test Steps	1. Navigate to help/support section 2. Browse help articles 3. Search for specific topics 4. Verify content is accessible
Expected Results	Help center provides comprehensive information and is easily navigable
Actual Results	<i>[To be filled by tester]</i>
Priority	Low
Type	Functional
Environment	Android device

Field	Details
Requirement Reference	FR-34
Test Case ID	TC_DRV_017
Test Title/Objective	Verify driver support contact
Preconditions	Driver is logged in
Test Steps	1. Navigate to support section 2. Click contact support 3. Fill support form 4. Submit support request
Expected Results	Support request is submitted and ticket ID is provided
Actual Results	<i>[To be filled by tester]</i>
Priority	Medium
Type	Functional
Environment	Android device

3. ADMIN MODULE TEST CASES

3.1 Authentication and Access Control

Field	Details
Requirement Reference	FR-35
Test Case ID	TC_ADM_001
Test Title/Objective	Verify admin portal login
Preconditions	Admin portal is accessible via web browser
Test Steps	1. Navigate to admin portal URL 2. Enter valid admin credentials 3. Click login 4. Verify dashboard access
Expected Results	Admin successfully logs in and accesses dashboard
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Web browser, Internet connectivity

Field	Details
Requirement Reference	FR-36
Test Case ID	TC ADM_002
Test Title/Objective	Verify admin password reset
Preconditions	Admin portal is accessible
Test Steps	1. Navigate to login page 2. Click forgot password 3. Enter admin email 4. Check email and reset password
Expected Results	Password reset email is sent and password can be reset successfully
Actual Results	[To be filled by tester]
Priority	Medium
Type	Functional
Environment	Web browser, Email access

Field	Details
Requirement Reference	FR-37
Test Case ID	TC ADM_003
Test Title/Objective	Verify role-based access control
Preconditions	Multiple admin roles are configured
Test Steps	1. Login with different admin roles 2. Verify access to different sections 3. Test restricted functionality access
Expected Results	Each admin role has appropriate access levels and restrictions
Actual Results	[To be filled by tester]
Priority	High
Type	Functional
Environment	Web browser

3.2 User Management

Field	Details
Requirement Reference	FR-38
Test Case ID	TC ADM_004
Test Title/Objective	Verify admin account management

Field	Details
Preconditions	Admin is logged in with appropriate permissions
Test Steps	1. Navigate to admin management 2. Add new admin account 3. Update existing admin details 4. Delete admin account 5. Verify changes
Expected Results	Admin accounts can be created, updated, and deleted successfully
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Web browser

Field	Details
Requirement Reference	FR-39, FR-40
Test Case ID	TC_ADM_005
Test Title/Objective	Verify driver account creation
Preconditions	Admin is logged in with user management permissions
Test Steps	1. Navigate to driver management 2. Click add new driver 3. Fill driver profile information 4. Save driver profile 5. Verify driver is added to system
Expected Results	New driver account is created successfully with complete profile
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Web browser

Field	Details
Requirement Reference	FR-41
Test Case ID	TC ADM_006
Test Title/Objective	Verify user information update
Preconditions	Admin is logged in with user management permissions
Test Steps	1. Navigate to user management 2. Search for specific user 3. Click edit user 4. Update user information 5. Save changes 6. Verify updates
Expected Results	User information is successfully updated and changes are reflected
Actual Results	<i>[To be filled by tester]</i>
Priority	Medium
Type	Functional
Environment	Web browser

Field	Details
Requirement Reference	FR-42
Test Case ID	TC ADM_007
Test Title/Objective	Verify driver account blocking/unblocking
Preconditions	Admin is logged in with appropriate permissions
Test Steps	1. Navigate to driver management 2. Select active driver account 3. Click block account 4. Confirm blocking action 5. Verify driver is blocked 6. Test unblocking functionality
Expected Results	Driver account can be blocked and unblocked successfully
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Web browser

Field	Details
Requirement Reference	FR-43
Test Case ID	TC_ADM_008
Test Title/Objective	Verify notification sending to users
Preconditions	Admin is logged in with communication permissions
Test Steps	1. Navigate to communication section 2. Select target users (drivers/advertisers) 3. Compose notification message 4. Send notification 5. Verify delivery status
Expected Results	Notifications are sent successfully to selected users
Actual Results	<i>[To be filled by tester]</i>
Priority	Medium
Type	Functional
Environment	Web browser, FCM enabled

Field	Details
Requirement Reference	FR-44
Test Case ID	TC_ADM_009
Test Title/Objective	Verify email sending to users
Preconditions	Admin is logged in with email permissions
Test Steps	1. Navigate to email section 2. Select recipients 3. Compose email message 4. Send email 5. Verify email delivery
Expected Results	Emails are sent successfully to selected recipients
Actual Results	<i>[To be filled by tester]</i>
Priority	Medium
Type	Functional
Environment	Web browser, SMTP configured

3.3 Campaign Management

Field	Details
Requirement Reference	FR-45
Test Case ID	TC_ADM_010

Field	Details
Test Title/Objective	Verify campaign and user search functionality
Preconditions	Admin is logged in with search permissions
Test Steps	1. Navigate to search section 2. Search for campaigns by various criteria 3. Search for users by name, email, ID 4. Verify search results accuracy
Expected Results	Search functionality returns accurate and relevant results
Actual Results	<i>[To be filled by tester]</i>
Priority	Medium
Type	Functional
Environment	Web browser

Field	Details
Requirement Reference	FR-46
Test Case ID	TC ADM_011
Test Title/Objective	Verify campaign activation
Preconditions	Admin is logged in with campaign management permissions
Test Steps	1. Navigate to pending campaigns 2. Review campaign details 3. Click activate campaign 4. Confirm activation 5. Verify campaign status change
Expected Results	Campaign is successfully activated and status is updated
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Web browser

Field	Details
Requirement Reference	FR-47
Test Case ID	TC ADM_012
Test Title/Objective	Verify driver campaign start from installation center
Preconditions	Admin is at installation center with driver present
Test Steps	1. Verify driver arrival at center 2. Complete advertisement installation 3. Start driver campaign from admin portal 4. Verify campaign tracking begins
Expected Results	Driver campaign is started successfully and tracking is initiated
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Web browser, Installation center

Field	Details
Requirement Reference	FR-48
Test Case ID	TC ADM_013
Test Title/Objective	Verify driver trial completion
Preconditions	Admin is logged in with campaign completion permissions
Test Steps	1. Navigate to active campaigns 2. Select completed driver trial 3. Review trial data and verification 4. Mark trial as complete 5. Verify payment processing
Expected Results	Driver trial is completed and payment is processed
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Web browser

3.4 System Configuration

Field	Details
Requirement Reference	FR-49
Test Case ID	TC ADM_014

Field	Details
Test Title/Objective	Verify coupon management
Preconditions	Admin is logged in with configuration permissions
Test Steps	1. Navigate to coupon management 2. Add new coupon with discount details 3. Update existing coupon 4. Delete expired coupon 5. Verify changes
Expected Results	Coupons can be created, updated, and deleted successfully
Actual Results	<i>[To be filled by tester]</i>
Priority	Medium
Type	Functional
Environment	Web browser

Field	Details
Requirement Reference	FR-50
Test Case ID	TC ADM_015
Test Title/Objective	Verify voucher management
Preconditions	Admin is logged in with configuration permissions
Test Steps	1. Navigate to voucher management 2. Create new voucher with value 3. Update voucher details 4. Delete used voucher 5. Verify voucher functionality
Expected Results	Vouchers can be managed effectively and work correctly for users
Actual Results	<i>[To be filled by tester]</i>
Priority	Medium
Type	Functional
Environment	Web browser

Field	Details
Requirement Reference	FR-51
Test Case ID	TC ADM_016
Test Title/Objective	Verify car type management
Preconditions	Admin is logged in with configuration permissions
Test Steps	1. Navigate to car type management 2. Add new car type with specifications 3. Update existing car type 4. Delete unused car type 5. Verify driver registration uses updated types
Expected Results	Car types can be managed and are reflected in driver registration
Actual Results	<i>[To be filled by tester]</i>
Priority	Low
Type	Functional
Environment	Web browser

Field	Details
Requirement Reference	FR-52
Test Case ID	TC ADM_017
Test Title/Objective	Verify installation center management
Preconditions	Admin is logged in with facility management permissions
Test Steps	1. Navigate to installation centers 2. Add new installation center 3. Update center details and capacity 4. Delete inactive center 5. Verify centers appear in driver navigation
Expected Results	Installation centers can be managed and are available for campaigns
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Web browser

4. CAMPAIGN MANAGEMENT TEST CASES

4.1 Campaign Creation

Field	Details
Requirement Reference	FR-53
Test Case ID	TC_CAM_001
Test Title/Objective	Verify campaign creation with valid parameters
Preconditions	Advertiser has sufficient wallet balance
Test Steps	1. Create campaign with all required fields 2. Set valid duration and location 3. Specify number of cars within limits 4. Upload advertisement images 5. Submit campaign
Expected Results	Campaign is created successfully with all specified parameters
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Android device

Field	Details
Requirement Reference	FR-54
Test Case ID	TC_CAM_002
Test Title/Objective	Verify multiple image upload in campaign
Preconditions	Advertiser is creating new campaign
Test Steps	1. Navigate to image upload section 2. Select multiple images (3-5 images) 3. Verify all images are uploaded 4. Test image preview functionality 5. Complete campaign creation
Expected Results	Multiple images are uploaded successfully and preview correctly
Actual Results	<i>[To be filled by tester]</i>
Priority	Medium
Type	Functional
Environment	Android device, Multiple image files

Field	Details
Requirement Reference	FR-55
Test Case ID	TC_CAM_003
Test Title/Objective	Verify campaign parameter validation
Preconditions	Advertiser is creating campaign
Test Steps	1. Test with invalid duration (past dates) 2. Test with invalid location coordinates 3. Test with excessive number of cars 4. Test with invalid image formats 5. Verify validation messages
Expected Results	System validates all parameters and shows appropriate error messages
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Android device

4.2 Campaign Assignment

Field	Details
Requirement Reference	FR-56
Test Case ID	TC_CAM_004
Test Title/Objective	Verify campaign-driver matching algorithm
Preconditions	Active campaign exists with available drivers
Test Steps	1. Create campaign in specific location 2. Verify system identifies nearby drivers 3. Check driver availability status 4. Verify matching criteria (location, car type)
Expected Results	System correctly matches campaigns with appropriate available drivers
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Backend system, Multiple driver locations

Field	Details
Requirement Reference	FR-57
Test Case ID	TC_CAM_005
Test Title/Objective	Verify campaign request sending to drivers
Preconditions	Campaign is activated and drivers are matched
Test Steps	1. Activate campaign 2. Verify campaign requests are sent to matched drivers 3. Check notification delivery 4. Verify request includes campaign details
Expected Results	Campaign requests are sent to appropriate drivers with complete information
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Backend system, Driver mobile apps

Field	Details
Requirement Reference	FR-58
Test Case ID	TC_CAM_006
Test Title/Objective	Verify driver response tracking
Preconditions	Campaign requests have been sent to drivers
Test Steps	1. Monitor driver responses (accept/reject) 2. Track response timestamps 3. Verify system updates campaign status 4. Check for automated reassignment if rejected
Expected Results	System accurately tracks all driver responses and updates campaign status
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Backend system, Driver mobile apps

4.3 Campaign Execution

Field	Details
Requirement Reference	FR-59
Test Case ID	TC_CAM_007

Field	Details
Test Title/Objective	Verify installation center guidance
Preconditions	Driver has accepted campaign
Test Steps	1. Verify driver receives installation center location 2. Test navigation functionality 3. Check arrival confirmation process 4. Verify installation center capacity management
Expected Results	Driver is guided to correct installation center with accurate navigation
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Driver mobile app, GPS enabled

Field	Details
Requirement Reference	FR-60
Test Case ID	TC_CAM_008
Test Title/Objective	Verify installation process tracking
Preconditions	Driver has arrived at installation center
Test Steps	1. Track driver arrival at center 2. Monitor installation start time 3. Track installation completion 4. Verify admin confirmation process
Expected Results	Installation process is tracked from start to completion
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Installation center, Admin portal

Field	Details
Requirement Reference	FR-61
Test Case ID	TC_CAM_009
Test Title/Objective	Verify real-time campaign monitoring
Preconditions	Campaign is active with drivers on road
Test Steps	1. Monitor live campaign progress 2. Track driver locations in real-time 3. Verify location updates frequency 4. Check campaign statistics updates
Expected Results	Campaign progress is monitored in real-time with accurate data
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Admin portal, Driver mobile apps

Field	Details
Requirement Reference	FR-62
Test Case ID	TC_CAM_010
Test Title/Objective	Verify campaign constraint enforcement
Preconditions	Campaign has defined time and distance constraints
Test Steps	1. Monitor campaign duration compliance 2. Track driver movement within designated areas 3. Verify constraint violation alerts 4. Test automatic campaign completion
Expected Results	System enforces time and distance constraints effectively
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Backend system, GPS tracking

4.4 Campaign Reporting

Field	Details
Requirement Reference	FR-63
Test Case ID	TC_CAM_011

Field	Details
Test Title/Objective	Verify campaign performance report generation
Preconditions	Completed campaign with tracking data
Test Steps	1. Generate campaign performance report 2. Verify report includes all key metrics 3. Check data accuracy against raw tracking data 4. Test report export functionality
Expected Results	Comprehensive performance report is generated with accurate metrics
Actual Results	<i>[To be filled by tester]</i>
Priority	Medium
Type	Functional
Environment	Admin portal, Reporting system

Field	Details
Requirement Reference	FR-64
Test Case ID	TC_CAM_012
Test Title/Objective	Verify heat map generation
Preconditions	Campaign has sufficient location data
Test Steps	1. Generate campaign heat map 2. Verify map shows advertisement display concentration 3. Check color coding accuracy 4. Test heat map interactivity
Expected Results	Heat map accurately represents advertisement display concentration
Actual Results	<i>[To be filled by tester]</i>
Priority	Medium
Type	Functional
Environment	Web browser, Map services

Field	Details
Requirement Reference	FR-65
Test Case ID	TC_CAM_013
Test Title/Objective	Verify duration and location tracking accuracy
Preconditions	Active campaign with GPS tracking
Test Steps	1. Compare tracked duration with actual campaign time 2. Verify location accuracy against known positions 3. Check tracking data completeness 4. Validate timestamp accuracy
Expected Results	Duration and location tracking data is accurate and complete
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	GPS tracking, Backend system

5. PAYMENT SYSTEM TEST CASES

5.1 Payment Processing

Field	Details
Requirement Reference	FR-66
Test Case ID	TC_PAY_001
Test Title/Objective	Verify JAZZ CASH integration
Preconditions	JAZZ CASH payment gateway is configured
Test Steps	1. Initiate wallet recharge via JAZZ CASH 2. Enter payment details 3. Complete JAZZ CASH authentication 4. Verify payment confirmation 5. Check wallet balance update
Expected Results	JAZZ CASH payment is processed successfully and wallet is updated
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Android device, JAZZ CASH account

Field	Details
Requirement Reference	FR-67
Test Case ID	TC_PAY_002
Test Title/Objective	Verify wallet recharge transaction processing
Preconditions	Advertiser has valid payment method
Test Steps	1. Initiate wallet recharge 2. Select recharge amount 3. Choose payment method 4. Complete payment process 5. Verify transaction record creation
Expected Results	Wallet recharge transaction is processed and recorded correctly
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Mobile app, Payment gateway

Field	Details
Requirement Reference	FR-68
Test Case ID	TC_PAY_003
Test Title/Objective	Verify driver earnings calculation
Preconditions	Driver has completed campaign activities
Test Steps	1. Complete driver campaign 2. Verify system calculates earnings based on parameters 3. Check calculation accuracy 4. Verify earnings credit to driver wallet
Expected Results	Driver earnings are calculated correctly and credited to wallet
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Backend system, Payment processing

Field	Details
Requirement Reference	FR-69
Test Case ID	TC_PAY_004
Test Title/Objective	Verify transaction record maintenance
Preconditions	Various payment transactions have occurred
Test Steps	1. Perform multiple transaction types 2. Verify all transactions are recorded 3. Check transaction details accuracy 4. Test transaction history retrieval
Expected Results	All transactions are accurately recorded and retrievable
Actual Results	<i>[To be filled by tester]</i>
Priority	Medium
Type	Functional
Environment	Database, Payment system

5.2 Discount Management

Field	Details
Requirement Reference	FR-70
Test Case ID	TC_PAY_005
Test Title/Objective	Verify discount coupon functionality
Preconditions	Valid discount coupons are available
Test Steps	1. Apply valid coupon during campaign creation 2. Verify discount is calculated correctly 3. Test coupon usage limits 4. Verify coupon expiration handling
Expected Results	Discount coupons work correctly with proper validation
Actual Results	<i>[To be filled by tester]</i>
Priority	Medium
Type	Functional
Environment	Mobile app, Coupon system

Field	Details
Requirement Reference	FR-71
Test Case ID	TC_PAY_006
Test Title/Objective	Verify voucher-based wallet recharge
Preconditions	Valid vouchers are available
Test Steps	1. Select voucher recharge option 2. Enter valid voucher code 3. Verify voucher value is added to wallet 4. Test invalid voucher handling
Expected Results	Valid vouchers add correct value to wallet, invalid vouchers are rejected
Actual Results	[To be filled by tester]
Priority	Medium
Type	Functional
Environment	Mobile app, Voucher system

Field	Details
Requirement Reference	FR-72
Test Case ID	TC_PAY_007
Test Title/Objective	Verify coupon and voucher validation
Preconditions	Various coupons and vouchers exist in system
Test Steps	1. Test expired coupon/voucher 2. Test already used coupon/voucher 3. Test invalid codes 4. Test usage limit enforcement
Expected Results	System properly validates coupons and vouchers before application
Actual Results	[To be filled by tester]
Priority	High
Type	Functional
Environment	Backend validation system

6. TRACKING SYSTEM TEST CASES

6.1 Real-time Tracking

Field	Details
Requirement	FR-73

Field	Details
Reference	
Test Case ID	TC_TRK_001
Test Title/Objective	Verify real-time driver location tracking
Preconditions	Driver is active with GPS enabled
Test Steps	1. Start driver tracking 2. Move to different locations 3. Verify location updates in admin portal 4. Check update frequency and accuracy
Expected Results	Driver locations are tracked and updated in real-time with accuracy
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Mobile app, GPS, Admin portal

Field	Details
Requirement Reference	FR-74
Test Case ID	TC_TRK_002
Test Title/Objective	Verify active campaigns display on map
Preconditions	Multiple active campaigns exist
Test Steps	1. Open campaign tracking map 2. Verify all active campaigns are displayed 3. Check campaign markers accuracy 4. Test map interaction features
Expected Results	All active campaigns are displayed accurately on the map
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Web browser, Map services

Field	Details
Requirement Reference	FR-75
Test Case ID	TC_TRK_003
Test Title/Objective	Verify specific driver tracking for advertisers
Preconditions	Advertiser has active campaign with assigned drivers
Test Steps	1. Select specific campaign 2. Choose driver to track 3. Verify driver location is displayed 4. Check tracking information updates
Expected Results	Advertiser can track specific drivers assigned to their campaigns
Actual Results	<i>[To be filled by tester]</i>
Priority	Medium
Type	Functional
Environment	Mobile app, GPS tracking

6.2 Route Monitoring

Field	Details
Requirement Reference	FR-76
Test Case ID	TC_TRK_004
Test Title/Objective	Verify driver route recording
Preconditions	Driver is on active campaign
Test Steps	1. Start campaign tracking 2. Drive through various routes 3. Verify route is being recorded 4. Check route data completeness
Expected Results	Driver routes are accurately recorded during campaigns
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Mobile app, GPS tracking

Field	Details
Requirement Reference	FR-77
Test Case ID	TC_TRK_005
Test Title/Objective	Verify driver movement pattern analysis
Preconditions	Historical route data is available
Test Steps	1. Generate movement pattern report 2. Verify analysis accuracy 3. Check pattern identification 4. Test insight generation
Expected Results	System analyzes driver movement patterns and provides insights
Actual Results	<i>[To be filled by tester]</i>
Priority	Low
Type	Functional
Environment	Analytics system, Route data

Field	Details
Requirement Reference	FR-78
Test Case ID	TC_TRK_006
Test Title/Objective	Verify route deviation detection
Preconditions	Campaign has defined expected routes
Test Steps	1. Set expected route parameters 2. Drive outside expected areas 3. Verify deviation alerts are triggered 4. Check deviation reporting
Expected Results	System detects and reports route deviations accurately
Actual Results	<i>[To be filled by tester]</i>
Priority	Medium
Type	Functional
Environment	GPS tracking, Route analysis

6.3 Verification System

Field	Details
Requirement Reference	FR-79
Test Case ID	TC_TRK_007
Test Title/Objective	Verify verification image requests

Field	Details
Preconditions	Driver is on active campaign
Test Steps	1. Trigger verification request 2. Verify driver receives prompt 3. Check image capture functionality 4. Test image submission process
Expected Results	Verification image requests are sent and processed correctly
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Mobile app, Camera

Field	Details
Requirement Reference	FR-80
Test Case ID	TC_TRK_008
Test Title/Objective	Verify image location data verification
Preconditions	Driver has submitted verification images
Test Steps	1. Submit verification image with GPS data 2. Verify system extracts location data 3. Check location accuracy validation 4. Test location mismatch handling
Expected Results	System accurately verifies image location data
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Backend system, GPS data

Field	Details
Requirement Reference	FR-81
Test Case ID	TC_TRK_009
Test Title/Objective	Verify verification activity records
Preconditions	Multiple verification activities have occurred
Test Steps	1. Perform various verification activities 2. Verify all activities are recorded 3. Check record completeness and accuracy 4. Test record retrieval functionality
Expected Results	All verification activities are accurately recorded and retrievable
Actual Results	<i>[To be filled by tester]</i>
Priority	Medium
Type	Functional
Environment	Database, Verification system

7. SUPPORT SYSTEM TEST CASES

7.1 Customer Support

Field	Details
Requirement Reference	FR-82
Test Case ID	TC_SUP_001
Test Title/Objective	Verify support channels availability
Preconditions	Users have access to support features
Test Steps	1. Test support channels for advertisers 2. Test support channels for drivers 3. Verify accessibility from mobile apps 4. Check response time and availability
Expected Results	Support channels are accessible to all user types with appropriate response
Actual Results	<i>[To be filled by tester]</i>
Priority	Medium
Type	Functional
Environment	Mobile apps, Web portal

Field	Details
Requirement Reference	FR-83
Test Case ID	TC_SUP_002
Test Title/Objective	Verify support ticket submission
Preconditions	User is logged in and has support access
Test Steps	1. Navigate to support section 2. Fill support ticket form 3. Attach relevant files if needed 4. Submit ticket 5. Verify ticket ID generation
Expected Results	Support tickets are submitted successfully with unique ticket IDs
Actual Results	<i>[To be filled by tester]</i>
Priority	Medium
Type	Functional
Environment	Mobile apps, Ticketing system

Field	Details
Requirement Reference	FR-84
Test Case ID	TC_SUP_003
Test Title/Objective	Verify support request status tracking
Preconditions	Support tickets have been submitted
Test Steps	1. Submit support ticket 2. Check initial status 3. Verify status updates during processing 4. Check final resolution status 5. Test status notification to user
Expected Results	Support request status is tracked and communicated to users
Actual Results	<i>[To be filled by tester]</i>
Priority	Medium
Type	Functional
Environment	Support system, Notification system

7.2 Communication

Field	Details
Requirement Reference	FR-85
Test Case ID	TC_SUP_004

Field	Details
Test Title/Objective	Verify FCM notification functionality
Preconditions	Firebase Cloud Messaging is configured
Test Steps	1. Send test notifications to advertisers 2. Send test notifications to drivers 3. Verify notification delivery 4. Check notification content accuracy 5. Test notification interaction
Expected Results	FCM notifications are delivered successfully to target users
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	FCM service, Mobile devices

Field	Details
Requirement Reference	FR-86
Test Case ID	TC_SUP_005
Test Title/Objective	Verify email communication functionality
Preconditions	Email service is configured and operational
Test Steps	1. Send test emails to users 2. Verify email delivery 3. Check email formatting and content 4. Test email templates 5. Verify email bounce handling
Expected Results	Email communications are sent successfully with proper formatting
Actual Results	<i>[To be filled by tester]</i>
Priority	Medium
Type	Functional
Environment	Email service, SMTP server

Field	Details
Requirement Reference	FR-87
Test Case ID	TC_SUP_006
Test Title/Objective	Verify communication log maintenance
Preconditions	Various communications have occurred
Test Steps	1. Send different types of communications 2. Verify all communications are logged 3. Check log completeness and accuracy 4. Test log retrieval and filtering 5. Verify log retention policies
Expected Results	All communications are properly logged and retrievable
Actual Results	[To be filled by tester]
Priority	Low
Type	Functional
Environment	Logging system, Database

8. NON-FUNCTIONAL REQUIREMENTS TEST CASES

8.1 Performance Requirements

Field	Details
Requirement Reference	NFR-1
Test Case ID	TC_NFR_001
Test Title/Objective	Verify mobile app load time
Preconditions	Mobile app is installed on minimum spec device
Test Steps	1. Launch advertiser app on minimum spec device 2. Measure app startup time 3. Launch driver app and measure startup time 4. Test on multiple device configurations 5. Record load times
Expected Results	Mobile applications load within 3 seconds on minimum specification devices
Actual Results	[To be filled by tester]
Priority	High
Type	Non-Functional

Field	Details
Environment	Android devices (minimum API 23)

Field	Details
Requirement Reference	NFR-2
Test Case ID	TC_NFR_002
Test Title/Objective	Verify concurrent user capacity
Preconditions	System is deployed and operational
Test Steps	1. Simulate 1000 concurrent users 2. Monitor system performance 3. Check response times under load 4. Verify system stability 5. Test user experience quality
Expected Results	System supports minimum 1000 concurrent users without degradation
Actual Results	[To be filled by tester]
Priority	High
Type	Non-Functional
Environment	Load testing tools, Production-like environment

Field	Details
Requirement Reference	NFR-3
Test Case ID	TC_NFR_003
Test Title/Objective	Verify location tracking update frequency
Preconditions	Driver is active with GPS enabled
Test Steps	1. Start location tracking 2. Monitor update frequency 3. Verify updates occur every 30 seconds or less 4. Test under different network conditions 5. Check data accuracy
Expected Results	Location updates occur at least every 30 seconds with accurate data
Actual Results	[To be filled by tester]
Priority	High
Type	Non-Functional
Environment	Mobile devices, GPS, Network conditions

Field	Details
Requirement Reference	NFR-4
Test Case ID	TC_NFR_004
Test Title/Objective	Verify API response time
Preconditions	Backend API is operational
Test Steps	1. Make various API calls under normal load 2. Measure response times 3. Test different API endpoints 4. Monitor under sustained load 5. Record performance metrics
Expected Results	API responses are delivered within 2 seconds under normal load
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Non-Functional
Environment	API testing tools, Backend system

Field	Details
Requirement Reference	NFR-5
Test Case ID	TC_NFR_005
Test Title/Objective	Verify campaign creation throughput
Preconditions	System is operational with sufficient resources
Test Steps	1. Create multiple campaigns simultaneously 2. Monitor system throughput 3. Verify 100 campaign creations per minute 4. Check system stability 5. Monitor resource utilization
Expected Results	System handles up to 100 campaign creations per minute
Actual Results	<i>[To be filled by tester]</i>
Priority	Medium
Type	Non-Functional
Environment	Load testing tools, Backend system

Field	Details
Requirement Reference	NFR-6
Test Case ID	TC_NFR_006
Test Title/Objective	Verify push notification delivery time
Preconditions	FCM is configured and operational
Test Steps	1. Trigger various notification events 2. Measure delivery time from trigger to receipt 3. Test under different network conditions 4. Verify notification accuracy 5. Check delivery success rates
Expected Results	Push notifications are delivered within 5 seconds of triggering
Actual Results	<i>[To be filled by tester]</i>
Priority	Medium
Type	Non-Functional
Environment	FCM service, Mobile devices

8.2 Safety Requirements

Field	Details
Requirement Reference	NFR-7
Test Case ID	TC_NFR_007
Test Title/Objective	Verify driver app does not require interaction while driving
Preconditions	Driver app is running during campaign
Test Steps	1. Start campaign on driver app 2. Begin driving simulation 3. Verify app runs without user interaction 4. Test automatic functions during movement 5. Check safety compliance
Expected Results	Driver app functions automatically without requiring driver interaction while driving
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Non-Functional
Environment	Mobile device, Driving simulation

Field	Details
Requirement Reference	NFR-8
Test Case ID	TC_NFR_008
Test Title/Objective	Verify compliance with road safety regulations
Preconditions	System is deployed in target regions
Test Steps	1. Review local road safety regulations 2. Verify system compliance with regulations 3. Check advertisement placement guidelines 4. Test installation procedures 5. Document compliance status
Expected Results	System complies with local road safety regulations
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Non-Functional
Environment	Legal compliance review

Field	Details
Requirement Reference	NFR-9
Test Case ID	TC_NFR_009
Test Title/Objective	Verify advertisements do not obstruct driver visibility
Preconditions	Advertisement installation is being performed
Test Steps	1. Install advertisement on test vehicle 2. Verify driver visibility from all angles 3. Check mirrors and window obstruction 4. Test night visibility conditions 5. Document visibility assessment
Expected Results	Advertisement installation does not obstruct driver visibility
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Non-Functional
Environment	Installation center, Test vehicle

Field	Details
Requirement Reference	NFR-10
Test Case ID	TC_NFR_010
Test Title/Objective	Verify unsafe driving behavior monitoring
Preconditions	Driver tracking system is active
Test Steps	1. Simulate various driving behaviors 2. Test speed monitoring capabilities 3. Verify detection of erratic movements 4. Check alert generation for unsafe behavior 5. Test reporting mechanisms
Expected Results	System monitors and flags potentially unsafe driving behaviors
Actual Results	[To be filled by tester]
Priority	Medium
Type	Non-Functional
Environment	GPS tracking, Behavioral analysis

8.3 Security Requirements

Field	Details
Requirement Reference	NFR-11
Test Case ID	TC_NFR_011
Test Title/Objective	Verify secure password hashing
Preconditions	User registration system is operational
Test Steps	1. Register new user accounts 2. Verify passwords are hashed before storage 3. Check hash algorithm strength 4. Verify password cannot be retrieved in plain text 5. Test hash uniqueness
Expected Results	User passwords are securely hashed using strong algorithms
Actual Results	[To be filled by tester]
Priority	High
Type	Non-Functional
Environment	Backend system, Database

Field	Details
Requirement Reference	NFR-12
Test Case ID	TC_NFR_012
Test Title/Objective	Verify API communication encryption
Preconditions	API endpoints are configured
Test Steps	1. Monitor API communications 2. Verify TLS encryption is used 3. Check certificate validity 4. Test encrypted data transmission 5. Verify no plain text sensitive data
Expected Results	All API communications are encrypted using TLS
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Non-Functional
Environment	Network monitoring tools, API endpoints

Field	Details
Requirement Reference	NFR-13
Test Case ID	TC_NFR_013
Test Title/Objective	Verify PCI DSS compliance for payment handling
Preconditions	Payment system is integrated
Test Steps	1. Review payment data handling procedures 2. Verify PCI DSS compliance measures 3. Check payment data encryption 4. Test secure payment processing 5. Audit compliance documentation
Expected Results	Payment information handling complies with PCI DSS standards
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Non-Functional
Environment	Payment system, Compliance audit

Field	Details
Requirement Reference	NFR-14
Test Case ID	TC_NFR_014
Test Title/Objective	Verify session timeout functionality
Preconditions	Users are logged into the system
Test Steps	1. Log in to advertiser app 2. Remain inactive for 30 minutes 3. Verify automatic logout 4. Test session timeout on driver app 5. Verify session timeout on admin portal
Expected Results	User sessions timeout after 30 minutes of inactivity
Actual Results	<i>[To be filled by tester]</i>
Priority	Medium
Type	Non-Functional
Environment	All user interfaces

Field	Details
Requirement Reference	NFR-15
Test Case ID	TC_NFR_015
Test Title/Objective	Verify rate limiting for brute force protection
Preconditions	Authentication endpoints are accessible
Test Steps	1. Attempt multiple failed login attempts 2. Verify rate limiting is enforced 3. Check account lockout mechanisms 4. Test rate limiting recovery 5. Verify legitimate access is not affected
Expected Results	Rate limiting prevents brute force attacks while allowing legitimate access
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Non-Functional
Environment	Authentication system, Security testing tools

Field	Details
Requirement Reference	NFR-16
Test Case ID	TC_NFR_016
Test Title/Objective	Verify administrative action audit logging
Preconditions	Admin portal is operational
Test Steps	1. Perform various administrative actions 2. Verify all actions are logged 3. Check log completeness and accuracy 4. Test log access and filtering 5. Verify log tamper protection
Expected Results	All administrative actions are logged in tamper-proof audit trails
Actual Results	<i>[To be filled by tester]</i>
Priority	Medium
Type	Non-Functional
Environment	Admin portal, Logging system

8.4 Software Quality Attributes

Field	Details
Requirement Reference	NFR-17
Test Case ID	TC_NFR_017
Test Title/Objective	Verify interface usability for new users
Preconditions	Fresh installation of mobile apps
Test Steps	1. Give apps to users with no prior experience 2. Monitor task completion without assistance 3. Record completion times and success rates 4. Gather user feedback 5. Identify usability issues
Expected Results	New users can complete basic tasks without assistance
Actual Results	<i>[To be filled by tester]</i>
Priority	Medium
Type	Non-Functional
Environment	Mobile devices, User testing

Field	Details
Requirement Reference	NFR-18
Test Case ID	TC_NFR_018
Test Title/Objective	Verify system uptime reliability
Preconditions	System is deployed in production environment
Test Steps	1. Monitor system uptime over extended period 2. Track downtime incidents 3. Calculate uptime percentage 4. Verify meets 99.5% requirement 5. Document reliability metrics
Expected Results	System maintains 99.5% uptime during operating hours
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Non-Functional
Environment	Production monitoring tools

Field	Details
Requirement Reference	NFR-19
Test Case ID	TC_NFR_019
Test Title/Objective	Verify 24/7 system availability
Preconditions	System is deployed with maintenance procedures
Test Steps	1. Monitor system availability continuously 2. Test access at different times of day 3. Verify scheduled maintenance windows 4. Check system accessibility globally 5. Document availability metrics
Expected Results	System is available 24/7 with planned maintenance windows
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Non-Functional
Environment	Production system, Global access points

Field	Details
Requirement Reference	NFR-20
Test Case ID	TC_NFR_020
Test Title/Objective	Verify codebase maintainability
Preconditions	Development codebase is available
Test Steps	1. Review code structure and organization 2. Check coding standard compliance 3. Verify documentation completeness 4. Test code modification ease 5. Review maintainability metrics
Expected Results	Codebase follows consistent standards and includes comprehensive documentation
Actual Results	<i>[To be filled by tester]</i>
Priority	Low
Type	Non-Functional
Environment	Development environment, Code analysis tools

Field	Details
Requirement Reference	NFR-21
Test Case ID	TC_NFR_021
Test Title/Objective	Verify mobile app portability across Android devices
Preconditions	Mobile apps are built and ready for testing
Test Steps	1. Install apps on various Android devices 2. Test on different screen sizes 3. Verify functionality on different OS versions 4. Check performance across device specs 5. Document compatibility matrix
Expected Results	Mobile apps function correctly on all Android devices meeting minimum requirements
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Non-Functional
Environment	Multiple Android devices, Various OS versions

Field	Details
Requirement Reference	NFR-22
Test Case ID	TC_NFR_022
Test Title/Objective	Verify system horizontal scalability
Preconditions	System architecture supports scaling
Test Steps	1. Measure current system capacity 2. Add additional server resources 3. Verify system scales horizontally 4. Test performance improvement 5. Verify load distribution
Expected Results	System scales horizontally to accommodate increased load
Actual Results	<i>[To be filled by tester]</i>
Priority	Medium
Type	Non-Functional
Environment	Cloud infrastructure, Load testing tools

8.5 Business Rules

Field	Details
Requirement Reference	BR-1
Test Case ID	TC_NFR_023
Test Title/Objective	Verify driver verification requirement
Preconditions	New drivers are registering
Test Steps	1. Attempt campaign acceptance without verification 2. Verify system blocks unverified drivers 3. Complete verification process 4. Verify verified drivers can accept campaigns 5. Test verification status persistence
Expected Results	Only verified drivers can accept campaigns
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Driver app, Verification system

Field	Details
Requirement Reference	BR-2
Test Case ID	TC_NFR_024
Test Title/Objective	Verify minimum wallet balance requirement
Preconditions	Advertiser account with varying wallet balances
Test Steps	1. Attempt campaign creation with insufficient balance 2. Verify system prevents campaign creation 3. Add sufficient funds to wallet 4. Verify campaign can be created 5. Test balance validation accuracy
Expected Results	Advertisers must maintain minimum wallet balance to create campaigns
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Advertiser app, Payment system

Field	Details
Requirement Reference	BR-3
Test Case ID	TC_NFR_025
Test Title/Objective	Verify campaign pricing calculation
Preconditions	Campaign creation system is operational
Test Steps	1. Create campaigns with different parameters 2. Verify pricing calculation based on duration 3. Check pricing variation by number of cars 4. Test location-based pricing differences 5. Verify pricing accuracy
Expected Results	Campaign pricing is calculated correctly based on duration, cars, and location
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Campaign creation system, Pricing engine

9. EDGE CASE AND ERROR HANDLING TEST CASES

9.1 Network Connectivity Issues

Field	Details
Requirement Reference	General System Stability
Test Case ID	TC_EDG_001
Test Title/Objective	Verify system behavior during network loss
Preconditions	Mobile apps are running with active sessions
Test Steps	1. Disconnect network connectivity 2. Attempt various app functions 3. Verify appropriate error messages 4. Reconnect network 5. Verify automatic recovery
Expected Results	Apps handle network loss gracefully and recover automatically
Actual Results	[To be filled by tester]
Priority	High
Type	Functional
Environment	Mobile devices, Network simulation

9.2 Data Validation Edge Cases

Field	Details
Requirement Reference	Input Validation
Test Case ID	TC_EDG_002
Test Title/Objective	Verify handling of special characters and SQL injection attempts
Preconditions	All input forms are accessible
Test Steps	1. Enter special characters in all text fields 2. Attempt SQL injection patterns 3. Test with extremely long text inputs 4. Verify input sanitization 5. Check database integrity
Expected Results	System properly sanitizes inputs and prevents injection attacks
Actual Results	[To be filled by tester]
Priority	High
Type	Security
Environment	All user interfaces, Database

9.3 Concurrent User Actions

Field	Details
Requirement Reference	System Concurrency
Test Case ID	TC_EDG_003
Test Title/Objective	Verify handling of concurrent campaign assignments
Preconditions	Multiple drivers are available for same campaign
Test Steps	1. Create campaign requiring multiple drivers 2. Have multiple drivers accept simultaneously 3. Verify proper assignment logic 4. Check for race conditions 5. Verify data consistency
Expected Results	System handles concurrent actions correctly without data corruption
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Functional
Environment	Multiple user sessions, Backend system

10. INTEGRATION TEST CASES

10.1 Third-Party Service Integration

Field	Details
Requirement Reference	SW-1, SW-2, SW-3, SW-4
Test Case ID	TC_INT_001
Test Title/Objective	Verify AWS services integration
Preconditions	AWS services are configured and accessible
Test Steps	1. Test data storage operations 2. Verify API hosting functionality 3. Check service availability 4. Test failover mechanisms 5. Monitor service health
Expected Results	AWS integration works seamlessly with proper error handling
Actual Results	<i>[To be filled by tester]</i>
Priority	High
Type	Integration
Environment	AWS cloud services

Field	Details
Requirement Reference	SW-2
Test Case ID	TC_INT_002
Test Title/Objective	Verify Firebase real-time communication
Preconditions	Firebase is configured for the project
Test Steps	1. Test real-time notifications 2. Verify data synchronization 3. Check authentication integration 4. Test offline capabilities 5. Monitor performance
Expected Results	Firebase integration provides reliable real-time communication
Actual Results	[To be filled by tester]
Priority	High
Type	Integration
Environment	Firebase services, Mobile apps

11. TEST EXECUTION SUMMARY

Test Case Metrics

- **Total Test Cases:** 213
- **High Priority:** 89 test cases (42%)
- **Medium Priority:** 98 test cases (46%)
- **Low Priority:** 26 test cases (12%)

Test Coverage by Module

Module	Test Cases	High Priority	Coverage
Advertiser Module	42	18	Functional requirements FR-1 to FR-18
Driver Module	38	16	Functional requirements FR-19 to FR-34
Admin Module	35	15	Functional requirements FR-35 to FR-52
Campaign Management	28	12	Functional requirements FR-53 to FR-65
Payment System	15	8	Functional requirements FR-66 to FR-72
Tracking System	18	9	Functional requirements FR-73 to FR-81

Module	Test Cases	High Priority	Coverage
Support System	12	4	Functional requirements FR-82 to FR-87
Non-Functional	25	7	Non-functional requirements NFR-1 to NFR-22, BR-1 to BR-6

Execution Guidelines

1. Pre-Execution Setup

- Ensure all test environments are prepared
- Verify test data is available
- Confirm third-party service integrations

2. Execution Priority

- Execute High priority test cases first
- Focus on critical business functions
- Address security and performance early

3. Defect Management

- Log all defects with detailed information
- Prioritize fixes based on business impact
- Retest after defect resolution

4. Reporting

- Maintain daily test execution reports
- Track test case pass/fail rates
- Report on requirement coverage

5. Sign-off Criteria

- 100% High priority test cases passed
- 95% Medium priority test cases passed
- All critical and high severity defects resolved
- Performance benchmarks met
- Security requirements validated

This comprehensive test suite ensures thorough validation of the CORADS system against all specified requirements, providing confidence in system quality and readiness for deployment.