

Functional user stories:

| Count | Description of User Story (As a / I need / So that) | Acceptance Criteria |
|--------------------------|---|---|
| 1.1 – Account Sign-Up | As a new user, I need to sign up using my email, username, and password so that I can access TreeWayz services and manage my rides. | - User can input email, username, and password in required fields.- Password must meet security rules (min 8 chars, mixed case, digits, symbols).- If the email or username already exists, an error message appears (“Account already exists”).- Successful registration stores the data and redirects to Welcome / Onboarding screen. |
| 1.2 – Login | As a registered user, I need to log in with my credentials so that I can securely access my account and saved data. | - System verifies email/username and password combination.- Incorrect credentials displays an appropriate error message.- Successful login redirects user to Home screen with personalized greeting.- Login session persists securely until user logs out. |
| 2.1 – Post Ride (Driver) | As a driver, I need to post a new ride with pickup, destination, time, and seats so that riders can see and book it. | - All fields (pickup, destination, time, available seats) must be filled before posting.- System validates entries and displays errors for missing or invalid inputs.- Ride appears instantly in the Available Rides list for riders.- Driver receives confirmation that their ride has been successfully posted. |
| 4.1 – View Rides (Rider) | As a rider, I need to see all available rides so that I can select one that matches my route and time. | - Available rides display driver name, pickup and destination, time, seat availability, and fare.- Ride list refreshes automatically to show current availability.- If no rides exist, the system displays a message (“No drivers nearby yet!”). |
| 4.2 – Book Seat | As a rider, I need to book a seat so that I can reserve a spot in a ride. | - Clicking “Book Seat” decreases the available seat count by one.- System confirms successful booking with a confirmation message or visual change (“Seat Booked”).- Updated seat availability reflects instantly for all users viewing that ride.- Booking is saved in the rider’s Activity history. |

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| 4.3 – Payme nt Metho d Selecti on | As a rider, I need to select my preferred payment method (Cash or Benefit) so that I can pay easily and confirm my booking. | - Payment screen displays at least two methods: Cash and Benefit. - User must select a payment method before confirming booking.- Chosen method is displayed in booking summary and saved with ride details. |
| 5.1 – Sugges ted Rides | As a user, I need to view suggested rides by location and time so that I can find the best match. | - Suggestions appear once user enters pickup and destination.- Suggested rides are ranked by nearest pickup and earliest departure.- System refreshes list dynamically if user changes search filters or location. |
| 6.1 – Rate Ride/D river | As a user, I need to rate my rider/driver so that I can provide feedback and improve service. | - Rating prompt appears automatically after trip completion.- User can rate from 1 to 5 acorns (stars).- Ratings are submitted and stored under the driver or rider's profile. |
| 7.1 – View Past Rides | As a user, I need to see my past rides so that I can review or rebook previous routes. | - The Activity tab lists all completed rides with date, route, and driver name.- User can click on a past ride to view its summary.- If no past rides exist, the system displays a friendly message (“The branches are calm — no recent activity”). |
| 8.1 – Logout | As a user, I need to log out from my account so that my personal information stays secure. | - Logout button is visible in the navigation bar.- When clicked, a confirmation popup appears (“About to leaf us? Log out / Cancel”).- Selecting “Log out” ends the session and redirects to the Login screen.- All session data is cleared from local storage to maintain security. |

Non-functional (NF) user stories:

| Count | Description of User Story (As a / I need / So that) | Quality Attribute |
|----------------------|--|-------------------|
| NF1 – Performance | As a user, I need the TreeWayz app to load available rides, payment options, and booking confirmations within 2 seconds so that I can complete a ride reservation quickly without lag or timeout errors. | Performance |

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| NF2 – Security | As a user, I need all login credentials, ride details, and payment data (Cash or Benefit) to be securely transmitted and encrypted so that my personal and financial information remains protected at all times. | Security |
| NF3 – Usability | As a first-time user, I need the interface layout and labels (e.g., “Book Seat,” “Post Ride,” “Rate Driver”) to be clear and consistent so that I can easily navigate and perform actions without external guidance. | Usability |
| NF4 – Reliability | As a frequent user, I need TreeWayz to operate without crashes or data loss during booking, posting, or payment so that I can depend on it for daily transportation. | Reliability |
| NF5 – Compatibility | As a user, I need TreeWayz to function properly on modern mobile browsers, Android, and iOS devices so that I can access my account and rides from any platform. | Compatibility |
| NF6 – Accessibility | As a user with visual or motor limitations, I need the app to support scalable text, high-contrast colors, and clear button spacing so that I can comfortably view and interact with all features. | Accessibility |
| NF7 – Maintainability | As a developer or admin, I need TreeWayz’s codebase and database structure to be modular and well-documented so that future updates (e.g., adding new payment methods or features) can be implemented easily. | Maintainability |
| NF8 – Scalability | As a system administrator, I need TreeWayz to handle growth in users, rides, and concurrent bookings without performance degradation so that the system can support expanding demand across multiple locations. | Scalability |