**Flight Booking Platform Documentation**

**1. Overview**

The Flight Booking Platform is a modern, responsive web application designed to display flight deals and customer reviews dynamically. This project is built using **Vue.js**, with a clean, responsive UI powered by **CSS3**. The platform features animations, interactivity, and a mobile-friendly layout.

**Key Features:**

* **Best Deals on Flights**: Displays flight deals dynamically with options to view more or fewer deals.
* **Customer Reviews**: Highlights user reviews with a star-based rating system.
* **Interactive Buttons**: Includes animated buttons for better user engagement.
* **Responsive Design**: Optimized for devices ranging from desktops to mobile phones.

**2. Project Objectives**

* Showcase flight deals dynamically from a predefined dataset.
* Allow users to browse deals with expandable sections.
* Display customer feedback for trust-building and decision-making.
* Provide a seamless and responsive user experience with smooth animations.

**3. Technologies Used**

1. **Frontend Framework**: Vue.js for dynamic rendering and interactivity.
2. **Styling**:
   * **HTML5 & CSS3** for structure and design.
   * Custom animations using @keyframes.
3. **Responsive Design**: CSS media queries for mobile-first design.
4. **Folder and Code Structure**

**4.1 Template**

Defines the HTML structure:

* **Flight Deals Section**:  
  Displays the list of flight deals using Vue's v-for directive.
* **Customer Reviews Section:**  
  Showcases user reviews dynamically with avatars, ratings, and text.

**4.2 Script**

Manages application logic:

* **Data Properties**:
  + All Deals: Array containing all available flight deals.
  + Visible Deals: Subset of deals shown on the page (initially limited).
  + reviews: Array of user reviews, including details like name, rating, and date.
  + expanded: Boolean to toggle between "View All" and "View Less".
* **Methods**:
  + Expand Deals(): Expands the flight deals section to show all available deals.
  + Collapse Deals(): Collapses the deals back to the default number.

**4.3 Style (Scoped CSS)**

Handles component-specific styling:

* **Responsive Layout**: Adapts to screen sizes as small as 320px.
* **Animations**:
  + Pulsating animation for the "Book Now" button.
  + Smooth transitions for hover effects.
* **Design Highlights**:
  + Clean, centered layout with grid-based reviews section.
  + Professional typography and color scheme for user engagement.

**5. Features in Detail**

**5.1 Best Deals Section**

* **Dynamic Display**:  
  Uses v-for to iterate over the all Deals array and render flight deal items.
* **Expand/Collapse Functionality**:
  + Default: Displays the first 5 deals.
  + Clicking "View All" reveals the complete list.
  + Clicking "View Less" collapses the list back to the default view.
* **Interactive Book Now Button**:
  + Features a pulsating animation for better visibility.
  + Styled with gradients for a modern look.

**5.2 Reviews Section**

* **Dynamic Rendering**:  
  Displays reviews from the reviews array with key details like:
  + User avatar (initials)
  + Name and date of review
  + Star-based rating (filled and unfilled stars for clarity)
  + Review text
* **Star Rating System**:
  + Dynamically highlights stars based on the user's rating.
  + Uses Vue's v-for to iterate over a range of 5 for star display.

**5.3 Responsive Design**

* **Flight Deals Section**:
  + Content adjusts to fit smaller screens with reduced margins and font sizes.
  + Buttons shrink and reposition to maintain usability.
* **Reviews Section**:
  + Converts to a single-column layout on smaller devices for better readability.

**6. How to Use the Project**

**6.1 Installation**

1. Ensure you have **Node.js** and **Vue CLI** installed.
2. Clone the repository or copy the code into your Vue.js project.
3. Navigate to the project directory and run:

**6.2 Usage**

1. Open the app in your browser (default: http://localhost:8080).
2. **Flight Deals**:
   * By default, see the first 5 flight deals.
   * Use the "View All" and "View Less" buttons to expand or collapse the list.
   * Click the animated "Book Now" button to proceed with booking (stub functionality).
3. **Reviews Section**:
   * Browse user reviews dynamically rendered with ratings and avatars.

**7. Customization Options**

**7.1 Flight Deals**

* Add or modify flight deals in the all Deals array in the script section.
* Change details like route, date, airline, or price.

**7.2 Reviews**

* Update the reviews array to include new user feedback.
* Add fields like initials, name, date, rating, and text.

**7.3 Animations**

* Adjust the @keyframes pulse animation to change the pulsating effect of the "Book Now" button.
* Add new animations like bounce, shake, or fade for other elements.