**User Acceptance Testing (UAT)**

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| --- | --- |
| Date | 26-05-2025 |
| Team ID | LTVIP2025TMID46399 |
| Project Name | Flight Finder |
| Maximum Marks |  |

**📌 Project Name:**

***FlightFinder: Navigating Your Air Travel Options***

**📄 Description:**

Testing is one of the most important steps in building Built using the **MERN stack** (MongoDB, Express.js, React.js, and Node.js), the platform ensures responsive performance, real-time data handling, and a smooth user experience. It is designed to work efficiently across devices and browsers, providing a reliable and modern solution for flight booking.

For **users**, the platform allows:

* Account creation and secure login
* Easy search for available flights based on source, destination, and travel date
* Booking of selected flights with real-time confirmation
* Viewing of booking history and cancellation of flights

For **administrators**, the platform provides:

* A secure admin login portal
* Ability to add, update, or remove flight information
* Management of user bookings and monitoring system activity
* Dashboard to oversee and control the entire platform operations

**🧾 Key Features:**

* Online flight search based on source, destination, and date
* Easy flight booking with instant confirmation
* Option to cancel booked flights
* Secure user login and registration system
* Admin can add, edit, or delete flight details
* Users can view booking history
* Real-time data updates using MongoDB and Node.js
* Responsive design for desktop and mobile devices

**🔖 Project Version:**

v1.0.0

**🕒 Testing Period:**

**From:** 26th May 2025  
**To:** 2nd June 2025

**🎯 Testing Scope:**

1. **Unit Testing**
   * Each module and function was tested individually.
   * Examples:
     + User login and signup functionality
     + Flight search logic
     + Booking creation and cancellation
2. **Integration Testing**
   * Ensured that different components worked together.
   * Example:
     + Booking system communicating with flight and user modules
     + Payment integration with booking module
3. **System Testing**
   * The full application was tested in a real-time deployment environment.
   * All modules were tested end-to-end from user signup to flight booking and admin monitoring.
4. **User Acceptance Testing (UAT)**
   * The application was tested by sample users to ensure usability and proper functioning.
   * Feedback was collected and used for improvements.

**🌐 Technologies Used:**

| Category | Technologies Used |
| --- | --- |
| Frontend | React.js, Bootstrap, Material UI |
| Backend | Node.js, Express.js |
| Database | MongoDB, Mongoose |
| Testing Tools | Postman, Manual Testing |
| Real-Time | Socket.io, WebRTC |
| Deployment | Render, GitHub |

**Test Cases :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Case ID** | **Description** | **Input** | **Expected Output** | **Status** |
| TC001 | User Login | Valid Email, Password | Redirect to dashboard | Pass |
| TC002 | Search Flight | Source: Hyderabad, Dest: Delhi | List of available flights | Pass |
| TC003 | Book Flight | Selected flight + Payment | Booking confirmation message | Pass |
| TC004 | Admin Add Flight | Flight details | Flight saved successfully | Pass |
| TC005 | Cancel Booking | Booking ID | Booking canceled and updated in database | Pass |
| TC006 | Invalid Login Attempt | Wrong credentials | Show error message | Pass |

**BUG TRACKING :**

***Sign-Off***

| **Field** | **Value** |
| --- | --- |
| Tester Name | T. MUNI TEJA |
| Role | QA Tester / Developer |
| Date | 29-06-2025 |
| Signature | T.Muniteja |
| Status | ✅ Accepted for Deployment |

**Bug Tracking Table**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Bug ID** | **Description** | **Module** | **Status** | **Feedback** |
| BUG001 | Login button not responding | User Login | Fixed | Button action connected and tested. |
| BUG002 | Flight search returns empty result | Flight Search | Fixed | Logic corrected for filtering results. |
| BUG003 | Booking confirmation not displayed | Booking Module | Fixed | Booking message now displays correctly. |
| BUG004 | Admin not able to delete a flight | Admin Panel | Fixed | Delete route fixed and confirmed working. |
| BUG005 | Booking history not updating after cancel | Booking History | Fixed | Cancellation updates reflected immediately. |
| BUG006 | Validation missing on login form | User Login | Fixed | Validation added for empty inputs. |