



1.) Registration Form Validation Using JavaScript:

JS Code:

```
const form = document.getElementById('registerForm');

const firstName = document.getElementById('firstName');

const lastName = document.getElementById('lastName');

const email = document.getElementById('email');

const mobile = document.getElementById('mobile');

const dob = document.getElementById('dob');

const gender = document.getElementById('gender');

const password = document.getElementById('password');

const confirmPassword = document.getElementById('confirmPassword');

const termsAccepted = document.getElementById('termsAccepted');

const togglePasswordBtn = document.getElementById('togglePassword');

const eyelcon = document.getElementById('eyelcon');

const passwordStrength = document.getElementById('passwordStrength');

const pwStrengthText = document.getElementById('pwStrengthText');

const validationModal = document.getElementById('validationModal');

const closeModalBtn = document.getElementById('closeModalBtn');

const errorList = document.getElementById('errorList');

const successAlert = document.getElementById('successAlert');

// Safe guards: if any element missing, don't break (graceful)
if (!form) throw new Error('registerForm not found in DOM.');
```



```
// Password visibility toggle

togglePasswordBtn.addEventListener('click', function() {

    const type = password.getAttribute('type') === 'password' ? 'text' : 'password';

    password.setAttribute('type', type);

    eyeIcon.classList.toggle('fa-eye');

    eyeIcon.classList.toggle('fa-eye-slash');

});

// Password strength indicator

password.addEventListener('input', function() {

    const val = password.value;

    // Reset classes

    passwordStrength.classList.remove('strength-weak', 'strength-medium', 'strength-strong');

    pwStrengthText.textContent = '—';

    if (val.length === 0) {

        return;

    }

    let strength = 0;

    if (val.length >= 8) strength++;

    if (/^[a-z]/.test(val) && /[A-Z]/.test(val)) strength++;

    if (/^0-9/.test(val)) strength++;

    if (/^a-zA-Z0-9/.test(val)) strength++;

});
```

```

if (strength <= 1) {

    passwordStrength.classList.add('strength-weak');

    pwStrengthText.textContent = 'Very Weak';

} else if (strength === 2) {

    passwordStrength.classList.add('strength-weak');

    pwStrengthText.textContent = 'Weak';

} else if (strength === 3) {

    passwordStrength.classList.add('strength-medium');

    pwStrengthText.textContent = 'Medium';

} else {

    passwordStrength.classList.add('strength-strong');

    pwStrengthText.textContent = 'Strong';

}

});

// Set max DOB (18+)

(function setMaxDOB() {

    const today = new Date();

    const maxDate = new Date(today.getFullYear() - 18, today.getMonth(), today.getDate());

    if (dob) dob.setAttribute('max', maxDate.toISOString().split('T')[0]);

})();

// Prevent numbers in names

firstName.addEventListener('input', function() {

    this.value = this.value.replace(/[^a-zA-Z\s]/g, "");

});

```

```

lastName.addEventListener('input', function() {
    this.value = this.value.replace(/[^a-zA-Z\s]/g, '');
});

// Only numbers in mobile (allow + and spaces/hyphen)
mobile.addEventListener('input', function() {
    this.value = this.value.replace(/\^0-9+\s-/g, '');
});

// Form submission
form.addEventListener('submit', function(e) {
    e.preventDefault();

    const errors = [];
    const today = new Date();

    // First Name
    const firstNameVal = firstName.value.trim();
    if (!firstNameVal) {
        errors.push('Enter Your valid Name.');
    } else if (firstNameVal.length < 2) {
        errors.push('First Name must be at least 2 characters.');
    } else if (!/^[a-zA-Z\s]+$/ .test(firstNameVal)) {
        errors.push('First Name can only contain letters.');
    }
}
);

```



// Last Name

```
const lastNameVal = lastName.value.trim();

if (!lastNameVal) {
    errors.push('Last Name is required.');

} else if (lastNameVal.length < 2) {
    errors.push('Last Name must be at least 2 characters.');

} else if (!/^[a-zA-Z\s]+$/ .test(lastNameVal)) {
    errors.push('Last Name can only contain letters.');

}
```

// Email

```
const emailVal = email.value.trim();

if (!emailVal) {
    errors.push('You must enter a valid email address.');

} else if (!/^[a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}\$/.test(emailVal)) {
    errors.push('Email format is invalid (e.g., user@example.com).');

}
```

// Mobile

```
const mobileVal = mobile.value.trim().replace(/\s+/g, " ");

if (!mobileVal) {
    errors.push('Mobile Number is required.');

} else if (!/^\d{10}$/.test(mobileVal)) {
    errors.push('Mobile must be 10 digits starting with 0-9.');

}
```

```
// DOB
if (!dob.value) {
    errors.push('Date of Birth is required.');
} else {
    const birthDate = new Date(dob.value);
    let age = today.getFullYear() - birthDate.getFullYear();
    const m = today.getMonth() - birthDate.getMonth();
    if (m < 0 || (m === 0 && today.getDate() < birthDate.getDate())) {
        age--;
    }
    if (age < 18) {
        errors.push('You must be at least 18 years old.');
    }
}
```

```
// Gender
if (!gender.value) {
    errors.push('Select Gender.');
}
```

```
// Password
const passwordVal = password.value;
if (!passwordVal) {
    errors.push('You must enter a valid Password min 8 char.');
} else if (passwordVal.length < 8) {
    errors.push('Password must be at least 8 characters.');
```



```
} else {  
  
    if (!/[a-z]/.test(passwordVal)) errors.push('Password must have lowercase letter.');//  
  
    if (!/[A-Z]/.test(passwordVal)) errors.push('Password must have uppercase letter.');//  
  
    if (!/[0-9]/.test(passwordVal)) errors.push('Password must have a number.');//  
  
    if (!/[^a-zA-Z0-9]/.test(passwordVal)) errors.push('Password must have special character.');//  
  
}  
  
  
// Confirm Password  
  
if (!confirmPassword.value) {  
  
    errors.push('Confirm Password is required.');//  
  
} else if (confirmPassword.value !== passwordVal) {  
  
    errors.push('Passwords do not match.');//  
  
}  
  
  
// Terms  
  
if (!termsAccepted.checked) {  
  
    errors.push('You must accept Terms & Conditions.');//  
  
}  
  
  
// Show modal if errors  
  
if (errors.length > 0) {  
  
    showValidationModal(errors);  
  
    return false;  
  
}  
  
  
// Success - show alert and redirect
```



```
successAlert.textContent = ` ✅ Registration Successful! Welcome to AirGo, ${firstNameVal}  
${lastNameVal}! Redirecting to login...`;
```

```
successAlert.classList.remove('d-none');
```

```
// small delay to show message, then redirect
```

```
setTimeout(() => {
```

```
    window.location.href = 'login.html';
```

```
}, 1200);
```

```
return true;
```

```
});
```

```
// Show modal function
```

```
function showValidationModal(errors) {
```

```
    errorList.innerHTML = ";
```

```
    errors.forEach(error => {
```

```
        const li = document.createElement('li');
```

```
        li.textContent = error;
```

```
        errorList.appendChild(li);
```

```
    });
}
```

```
validationModal.style.display = 'block';
```

```
validationModal.setAttribute('aria-hidden','false');
```

```
}
```

```
// Close modal
```

```
closeModalBtn.addEventListener('click', function() {
```

```
    validationModal.style.display = 'none';
```



```
validationModal.setAttribute('aria-hidden','true');

});

// Close on outside click

window.addEventListener('click', function(event) {
  if (event.target === validationModal) {
    validationModal.style.display = 'none';
    validationModal.setAttribute('aria-hidden','true');
  }
});
```



Output:

The screenshot shows the 'Create Account' page of the AirGo website. The page has a light gray background with a central white form area. At the top of the form is a purple circular icon with a white person symbol and a plus sign. Below it, the title 'Create Account' is centered, followed by the sub-instruction 'Join AirGo and start your journey'. The form contains several input fields with validation requirements indicated by asterisks (*):

- First Name *: A text input field with placeholder 'Enter first name'.
- Last Name *: A text input field with placeholder 'Enter last name'.
- Email Address *: An input field with a mail icon and placeholder 'Enter your email'.
- Mobile Number *: An input field with a phone receiver icon and placeholder 'Enter 10-digit phone number'.
- Password *: A password input field with a lock icon and placeholder 'Create a password'. Below it, a note states: 'Must be 8+ characters with uppercase, lowercase, number & special character'.
- Confirm Password *: A password input field with placeholder 'Confirm your password'.
- Date of Birth *: A date input field with placeholder 'dd-mm-yyyy'.
- Gender *: A dropdown menu labeled 'Select Gender'.

At the bottom of the form, there is a checkbox labeled 'I agree to the Terms & Conditions' and a large blue button with the text 'Create Account' and a person icon. Below the button, a link says 'Already have an account? Login here'.

Footer Information:

- AirGo Logo:** The AirGo logo is at the top left of the footer.
- Quick Links:** Includes links to Home, Flights, Special Offers, and Contact Us.
- Support:** Includes links to Feedback, Travel Insurance, Terms & Conditions, and Privacy Policy.
- Social Media:** Icons for Facebook, Twitter, Instagram, and LinkedIn.
- Copyright:** © 2025 AirGo. All Rights Reserved. | Designed for hassle-free travel



The screenshot shows a client-side form validation dialog box. The dialog has a purple header with the text "Please Enter Valid Data...". Below the header is a list of 9 validation errors:

1. Enter Your valid Name.
2. Last Name is required.
3. You must enter a valid email address.
4. Mobile Number is required.
5. Date of Birth is required.
6. Select Gender.
7. You must enter a valid Password min 8 char.
8. Confirm Password is required.
9. You must accept Terms & Conditions.

At the bottom right of the dialog is a blue "OK" button.

The background of the screenshot shows a form with fields for Email Address, Mobile Number, Password, Confirm Password, Date of Birth, Gender, and a checkbox for Terms & Conditions. There is also a "Create Account" button and a link to "Login here".

The screenshot shows a client-side form validation dialog box. The dialog has a purple header with the text "Please Enter Valid Data...". Below the header is a list of 6 validation errors:

1. Mobile must be 10 digits starting with 0-9.
2. Date of Birth is required.
3. Select Gender.
4. Password must be at least 8 characters.
5. Confirm Password is required.
6. You must accept Terms & Conditions.

At the bottom right of the dialog is a blue "OK" button.

The background of the screenshot shows a form with fields for Email Address, Mobile Number, Password, Confirm Password, Date of Birth, Gender, and a checkbox for Terms & Conditions. There is also a "Create Account" button and a link to "Login here".



2.) Booking Form Validation Using JavaScript:

JS Code:

```
// Parse URL parameters and populate flight summary

document.addEventListener('DOMContentLoaded', function() {

    const urlParams = new URLSearchParams(window.location.search);

    // Get flight details from URL

    const flightNumber = urlParams.get('flight');

    const fromCity = urlParams.get('from');

    const toCity = urlParams.get('to');

    const date = urlParams.get('date');

    const depTime = urlParams.get('depTime');

    const arrTime = urlParams.get('arrTime');

    const airline = urlParams.get('airline');

    const price = parseInt(urlParams.get('price'));

    const passengers = parseInt(urlParams.get('passengers'));

    const duration = urlParams.get('duration');

    const flightClass = urlParams.get('class');

    // Update flight summary

    document.getElementById('summaryFrom').textContent = fromCity || 'Delhi';

    document.getElementById('summaryTo').textContent = toCity || 'Mumbai';

    document.getElementById('summaryDepTime').textContent = depTime || '10:00 AM';

    document.getElementById('summaryArrTime').textContent = arrTime || '12:15 PM';

    document.getElementById('summaryDuration').textContent = duration || '2h 15m';
```



```
document.getElementById('summaryAirline').textContent = airline || 'Air India';
document.getElementById('summaryFlight').textContent = flightNumber || 'AI-203';
document.getElementById('summaryClass').textContent = flightClass || 'Economy';
```

```
// Format and display date
if (date) {
    const dateObj = new Date(date);
    const formattedDate = dateObj.toLocaleDateString('en-IN', {
        day: 'numeric',
        month: 'short',
        year: 'numeric'
    });
    document.getElementById('summaryDate').textContent = formattedDate;
}

// Update price summary
const baseFare = Math.floor(price * 0.87); // 87% of total is base fare
const taxesFees = price - baseFare;

document.getElementById('summaryPrice').textContent = price.toLocaleString('en-IN');
document.getElementById('baseFare').textContent = (baseFare * passengers).toLocaleString('en-IN');
document.getElementById('taxesFees').textContent = (taxesFees * passengers).toLocaleString('en-IN');
document.getElementById('passCount').textContent = passengers;

// Calculate and display total
updateTotalPrice(price * passengers);
```



```
// Set max DOB to 18 years ago (adults only)

const eighteenYearsAgo = new Date();

eighteenYearsAgo.setFullYear(eighteenYearsAgo.getFullYear() - 18);

document.getElementById('dob').setAttribute('max', eighteenYearsAgo.toISOString().split('T')[0]);

});

// GST section toggle

document.getElementById('gstCheckbox').addEventListener('change', function() {

    const gstSection = document.getElementById('gstSection');

    if (this.checked) {

        gstSection.style.display = 'block';

    } else {

        gstSection.style.display = 'none';

    }

});

// Add-ons handling with dynamic price update

const addonCheckboxes = document.querySelectorAll('.addon-checkbox');

addonCheckboxes.forEach(function(checkbox) {

    checkbox.addEventListener('change', function() {

        updateAddonDisplay();

        calculateTotal();

    });

});

});
```

```

function updateAddonDisplay() {

    // Meal

    if (document.getElementById('mealAddon').checked) {
        document.getElementById('mealRow').style.display = 'flex';
    } else {
        document.getElementById('mealRow').style.display = 'none';
    }

    // Baggage

    if (document.getElementById('baggageAddon').checked) {
        document.getElementById('baggageRow').style.display = 'flex';
    } else {
        document.getElementById('baggageRow').style.display = 'none';
    }

    // Insurance

    if (document.getElementById('insuranceAddon').checked) {
        document.getElementById('insuranceRow').style.display = 'flex';
    } else {
        document.getElementById('insuranceRow').style.display = 'none';
    }

    // Seat

    if (document.getElementById('seatAddon').checked) {
        document.getElementById('seatRow').style.display = 'flex';
    } else {

```



```
document.getElementById('seatRow').style.display = 'none';
}

}

function calculateTotal() {
    const urlParams = new URLSearchParams(window.location.search);
    const basePrice = parseInt(urlParams.get('price')) || 4599;
    const passengers = parseInt(urlParams.get('passengers')) || 1;

    let total = basePrice * passengers;

    // Add addon costs
    if (document.getElementById('mealAddon').checked) {
        total += parseInt(document.getElementById('mealAddon').value);
    }
    if (document.getElementById('baggageAddon').checked) {
        total += parseInt(document.getElementById('baggageAddon').value);
    }
    if (document.getElementById('insuranceAddon').checked) {
        total += parseInt(document.getElementById('insuranceAddon').value);
    }
    if (document.getElementById('seatAddon').checked) {
        total += parseInt(document.getElementById('seatAddon').value);
    }

    updateTotalPrice(total);
}
```



}

```
function updateTotalPrice(total) {  
    document.getElementById('totalAmount').textContent = total.toLocaleString('en-IN');  
}  
  
// Form validation and submission  
  
document.getElementById('bookingForm').addEventListener('submit', function(e) {  
    e.preventDefault();  
  
    // Get form values  
  
    const title = document.getElementById('title').value;  
    const firstName = document.getElementById('firstName').value.trim();  
    const lastName = document.getElementById('lastName').value.trim();  
    const dob = document.getElementById('dob').value;  
    const gender = document.getElementById('gender').value;  
    const nationality = document.getElementById('nationality').value;  
    const email = document.getElementById('email').value.trim();  
    const mobile = document.getElementById('mobile').value.trim();  
    const city = document.getElementById('city').value.trim();  
  
    // Validation  
  
    if (!title || !firstName || !lastName || !dob || !gender || !nationality) {  
        alert('Please fill all required passenger details');  
        return;  
    }  
}
```



```
// Name validation (only letters and spaces)
```

```
const namePattern = /^[a-zA-Z\s]+$/;  
  
if (!namePattern.test(firstName)) {  
  
    alert('First name should contain only letters');  
  
    return;  
  
}
```

```
if (!namePattern.test(lastName)) {  
  
    alert('Last name should contain only letters');  
  
    return;  
  
}
```

```
// Name length validation
```

```
if (firstName.length < 2) {  
  
    alert('First name must be at least 2 characters');  
  
    return;  
  
}
```

```
if (lastName.length < 2) {  
  
    alert('Last name must be at least 2 characters');  
  
    return;  
  
}
```

```
// Age validation (must be 18+)
```

```
const birthDate = new Date(dob);
```



```
const today = new Date();  
  
const age = today.getFullYear() - birthDate.getFullYear();  
  
const monthDiff = today.getMonth() - birthDate.getMonth();
```

```
if (age < 18 || (age === 18 && monthDiff < 0)) {  
  
    alert('Passenger must be at least 18 years old');  
  
    return;  
  
}
```

```
// Email validation  
  
const emailPattern = /^[^@\s]+@[^\s@]+\.\[^@\s]+$/;  
  
if (!emailPattern.test(email)) {  
  
    alert('Please enter a valid email address');  
  
    return;  
  
}
```

```
// Mobile validation (Indian format)  
  
const mobilePattern = /^[+]?[0-9\s\-\(\)]{10,}$/;  
  
if (!mobilePattern.test(mobile)) {  
  
    alert('Please enter a valid mobile number');  
  
    return;  
  
}
```

```
if (!city) {  
  
    alert('Please enter your city');  
  
    return;
```



}

// GST validation if checked

```
if (document.getElementById('gstCheckbox').checked) {  
    const gstNumber = document.getElementById('gstNumber').value.trim();  
    const companyName = document.getElementById('companyName').value.trim();
```

```
if (!gstNumber || !companyName) {
```

```
    alert('Please fill all GST details or uncheck the GST option');
```

```
    return;
```

```
}
```

// Basic GST format validation (15 characters)

```
if (gstNumber.length !== 15) {  
    alert('GST number must be 15 characters');  
    return;  
}
```

```
}
```

// Terms acceptance validation

```
if (!document.getElementById('termsAccepted').checked) {  
    alert('Please accept the Terms & Conditions');  
    return;  
}
```

```
if (!document.getElementById('cancelPolicy').checked) {
```

```

        alert('Please accept the Cancellation Policy');

        return;

    }

// If all validations pass

const totalAmount = document.getElementById('totalAmount').textContent;
const flightNumber = document.getElementById('summaryFlight').textContent;

alert('Booking Confirmed! 🎉 \n\n' +
    'Passenger: ' + title + ' ' + firstName + ' ' + lastName + '\n' +
    'Flight: ' + flightNumber + '\n' +
    'Total Amount: ₹' + totalAmount + '\n\n' +
    'Confirmation details sent to: ' + email + '\n\n' +
    'Redirecting to payment gateway...');

// In a real application, this would redirect to payment gateway
setTimeout(function() {
    // Redirect to success page or payment gateway
    window.location.href = 'index.html';
}, 3000);

});

// Real-time email validation feedback
document.getElementById('email').addEventListener('blur', function() {
    const email = this.value.trim();
    const emailPattern = /^[^@\s]+@[^\s@]+\.[^\s@]+$/;

```



```
if (email && !emailPattern.test(email)) {  
    this.classList.add('is-invalid');  
    this.classList.remove('is-valid');  
}  
} else if (email) {  
    this.classList.add('is-valid');  
    this.classList.remove('is-invalid');  
}  
});  
  
// Real-time mobile validation feedback  
  
document.getElementById('mobile').addEventListener('blur', function() {  
    const mobile = this.value.trim();  
    const mobilePattern = /^[+]?[0-9\s\-\()]{10,}$/;  
  
    if (mobile && !mobilePattern.test(mobile)) {  
        this.classList.add('is-invalid');  
        this.classList.remove('is-valid');  
    } else if (mobile) {  
        this.classList.add('is-valid');  
        this.classList.remove('is-invalid');  
    }  
});  
  
// Prevent spaces in passport field  
  
document.getElementById('passport').addEventListener('input', function() {
```



```
this.value = this.value.replace(/\s/g, "").toUpperCase();  
});  
  
// GST number formatting  
  
document.getElementById('gstNumber').addEventListener('input', function() {  
    this.value = this.value.replace(/\s/g, "").toUpperCase();  
});
```

Output:

AirGo
Flights Hotels Cars Contact Login

Flight Details

Rajkot → Delhi
10:00 AM 2h 15m 12:15 PM

Air India - AI-203 | economy Class
9 Nov 2025

₹4,599
per person

Traveler Details

Title *	First Name *	Last Name *
Mr	Jainish	Kakkad
Date of Birth *	Gender *	
06-05-2025	Male	
Nationality: India		
Passport Number (For International): 65848518		

! Value must be 08-11-2007 or earlier.

Fare Breakdown

Base Fare (3 Adult)	₹12,003
Taxes & Fees	₹1,794
Meal	₹500
Extra Baggage	₹1,000
Travel Insurance	₹199
Seat Selection	₹300
Total Amount	₹13,797

✓ Free cancellation within 24 hours

Contact Information

Email Address *	Mobile Number *
Jainish	+91 98765 43210
! Please include an '@' in the email address. 'Jainish' is missing an '@'.	
Alternate Mobile	City
+91 98765 43210	Rajkot

GST Details (Optional)

I have a GST number (For business travelers)

Enhance Your Journey

- Pre-book Meal**
Choose your preferred meal in advance +₹500
- Extra Baggage (15kg)**
Additional 15kg checked baggage +₹1,000
- Travel Insurance**
Comprehensive travel protection +₹199
- Cancel Cancellation**

Fare Breakdown

Base Fare (3 Adult)	₹12,003
Taxes & Fees	₹1,794
Meal	₹500
Extra Baggage	₹1,000
Travel Insurance	₹199
Seat Selection	₹300
Total Amount	₹13,797

✓ Free cancellation within 24 hours

! Secure payment gateway