

```
document.getElementById('generateBtn').addEventListener('click', generateID);
document.getElementById('toggleSide').addEventListener('click', toggleSide);
document.getElementById('downloadBtn').addEventListener('click', downloadPNG);
document.getElementById('realIDCheck').addEventListener('change', (e) => {
  isRealID = e.target.checked;
  generateID();
});
```

```
let isFront = true;
let isRealID = true;
let uploadedPhoto = null; // Store the uploaded photo Data URL
```

```
// Handle photo upload
document.getElementById('photoUpload').addEventListener('change', (e) => {
  const file = e.target.files[0];
  if (file) {
    const reader = new FileReader();
    reader.onload = (event) => {
      uploadedPhoto = event.target.result; // Data URL
    };
    reader.readAsDataURL(file);
  }
});
```

```
function generateID() {
  const canvas = document.getElementById('idCanvas');
  const ctx = canvas.getContext('2d');
  ctx.clearRect(0, 0, canvas.width, canvas.height);

  const data = {
    fullName: document.getElementById('fullName').value,
    street: document.getElementById('street').value,
    cityStateZip: document.getElementById('cityStateZip').value,
    dlNumber: document.getElementById('dlNumber').value,
    dlClass: document.getElementById('dlClass').value,
    restrictions: document.getElementById('restrictions').value,
    endorsements: document.getElementById('endorsements').value,
    sex: document.getElementById('sex').value,
    height: document.getElementById('height').value,
    eyes: document.getElementById('eyes').value,
    hair: document.getElementById('hair').value,
    weight: document.getElementById('weight').value,
    dob: document.getElementById('dob').value,
```

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        issueDate: document.getElementById('issueDate').value,
        expDate: document.getElementById('expDate').value,
        donor: document.getElementById('donor').value
    };

    if (isFront) {
        drawFront(ctx, data);
    } else {
        drawBack(ctx, data);
    }
}

function drawFront(ctx, data) {
    ctx.fillStyle = '#FFFFFF';
    ctx.fillRect(0, 0, 1012, 637);
    ctx.strokeStyle = '#003366';
    ctx.lineWidth = 6;
    ctx.strokeRect(10, 10, 992, 617);

    ctx.globalAlpha = 0.1;
    ctx.fillStyle = '#000000';
    ctx.font = 'bold 100px Arial';
    ctx.fillText('ROCKY MTS', 200, 300);
    ctx.globalAlpha = 1;

    ctx.font = 'bold 16px Arial';
    ctx.fillStyle = '#000000';
    ctx.fillText('COLORADO', 20, 40);
    ctx.font = '12px Arial';
    ctx.fillText('DEPARTMENT OF REVENUE', 20, 60);

    if (isRealID) {
        ctx.fillStyle = '#FFD700';
        ctx.beginPath();
        ctx.arc(980, 20, 15, 0, Math.PI * 2);
        ctx.fill();
        ctx.fillStyle = '#000000';
        ctx.font = 'bold 10px Arial';
        ctx.fillText('* REAL ID', 950, 25);
    }

    // Draw uploaded photo if available
    if (uploadedPhoto) {

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    const img = new Image();
    img.onload = () => {
        ctx.drawImage(img, 400, 50, 150, 200);
    };
    img.src = uploadedPhoto;
} else {
    // Fallback placeholder
    ctx.fillStyle = '#CCCCCC';
    ctx.fillRect(400, 50, 150, 200);
    ctx.fillStyle = '#000000';
    ctx.font = '12px Arial';
    ctx.fillText('No Photo', 450, 150);
}

ctx.font = 'bold 18px Arial';
ctx.fillText(`FULL NAME: ${data.fullName}`, 20, 100);
ctx.font = '14px Arial';
ctx.fillText(`ADDRESS: ${data.street}`, 20, 120);
ctx.fillText(`${data.cityStateZip}`, 20, 140);
ctx.fillText(`DL NO: ${data.dlNumber} CLASS: ${data.dlClass} REST: ${data.restrictions}`, 20,
180);
ctx.fillText(`END: ${data.endorsements} SEX: ${data.sex} HEIGHT: ${data.height}`, 20, 200);
ctx.fillText(`EYES: ${data.eyes} HAIR: ${data.hair} WT: ${data.weight}`, 20, 220);
ctx.font = 'bold 14px Arial';
ctx.fillStyle = '#FF0000';
ctx.fillText(`EXP: ${data.expDate}`, 20, 260);
ctx.fillStyle = '#000000';
ctx.fillText(`DATE OF BIRTH: ${data.dob} ISSUED: ${data.issueDate}`, 20, 240);

ctx.lineWidth = 2;
ctx.beginPath();
ctx.moveTo(400, 280);
ctx.lineTo(550, 280);
ctx.stroke();

ctx.font = '4px Arial';
ctx.globalAlpha = 0.5;
for (let i = 0; i < 100; i++) {
    ctx.fillText('COLORADO', i * 10, 10);
    ctx.fillText('COLORADO', i * 10, 627);
}
ctx.globalAlpha = 1;

```

```

    ctx.font = '8px monospace';
    const mrz = `@\\n\\x1e\\rANSI
636000080002DLDAQ${data.dlNumber}\\nDCS${data.fullName}\\nDDEN\\nDAC${data.fullName.
split(' ')[0]}\\nDDFN\\nDAD${data.fullName.split(' ').slice(1).join('
')}\\nDDGN\\nDC${data.dlClass}M\\nDCBNONE\\nDCDNONE\\nDBD${data.expDate.replace(/\\/g,
')}\\nDBB${data.dob.replace(/\\/g, '')}\\nDBH${data.height.replace(/^[^0-9]/g,
')}\\nDAG${data.street}\\nDAI${data.cityStateZip.split(',')[0].trim()}\\nDAJCO\\nDAK${data.cityState
Zip.split('
')[2]}0000\\nDCFNONE\\nDCGUSA\\nDDC${data.eyes}\\nDDDNONE\\nDDGUSA\\nDDEU\\nDDJCH
\\nDDK1\\nDDL1\\nDDMNONE\\nDDN0\\nDDP0\\nDDQNONE\\nDDRNONE\\nDDSNONE\\nDDT0\\n
DDU0\\x1e\\r`;
    const mrzLines = mrz.split("\\n");
    mrzLines.forEach((line, index) => {
        ctx.fillText(line, 20, 580 + index * 10);
    });
}

function drawBack(ctx, data) {
    ctx.fillStyle = '#FFFFFF';
    ctx.fillRect(0, 0, 1012, 637);
    ctx.strokeStyle = '#003366';
    ctx.lineWidth = 6;
    ctx.strokeRect(10, 10, 992, 617);

    ctx.font = 'bold 16px Arial';
    ctx.fillStyle = '#000000';
    ctx.fillText('COLORADO FLAG', 20, 40);

    ctx.font = 'bold 18px Arial';
    ctx.fillStyle = '#FF0000';
    ctx.fillText(`DONOR: ${data.donor}`, 20, 80);
    ctx.fillStyle = '#000000';
    ctx.font = '14px Arial';
    ctx.fillText(`CLASS: ${data.dlClass} REST: ${data.restrictions} END: ${data.endorsements}`,
20, 120);

    ctx.font = '10px Arial';
    ctx.fillText('THIS DOCUMENT IS COMPLIANT WITH THE REAL ID ACT', 20, 160);
    ctx.fillText('FOR DOMESTIC AIR TRAVEL AND FEDERAL FACILITIES', 20, 180);
    ctx.fillText('VISIT WWW.DPS.STATE.CO.US FOR MORE INFO', 20, 200);

    const barcodeData = generateBarcodeData(data);
    generateBarcode(barcodeData, (barcodeCanvas) => {

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        ctx.drawImage(barcodeCanvas, 400, 250, 200, 100);
    });

    ctx.font = '6px Arial';
    ctx.fillStyle = '#888888';
    ctx.fillText('This card is not valid for identification if expired. Report lost/stolen to
1-800-284-4062 (CDOR Hotline)', 20, 610);

    ctx.globalAlpha = 0.2;
    ctx.fillStyle = '#00FFFF';
    ctx.fillText('COLORADO', 800, 100);
    ctx.globalAlpha = 1;
}

function generateBarcodeData(data) {
    return `@\\x1e\\rANSI
636000080002DLDAQ${data.dlNumber}\\nDCS${data.fullName}\\nDDEN\\nDAC${data.fullName.
split(' ')[0]}\\nDDFN\\nDAD${data.fullName.split(' ').slice(1).join('
')}\\nDDGN\\nDC${data.dlClass}M\\nDCBNONE\\nDCDNONE\\nDBD${data.expDate.replace(/\\/g,
'')}\\nDBB${data.dob.replace(/\\/g, '')}\\nDBH${data.height.replace(/^[^0-9]/g,
'')}\\nDAG${data.street}\\nDAI${data.cityStateZip.split(',')[0].trim()}\\nDAJCO\\nDAK${data.cityState
Zip.split('
')[2]}0000\\nDCFNONE\\nDCGUSA\\nDDC${data.eyes}\\nDDDNONE\\nDDGUSA\\nDDEU\\nDDJCH
\\nDDK1\\nDDL1\\nDDMNONE\\nDDN0\\nDDP0\\nDDQNONE\\nDDRNONE\\nDDSNONE\\nDDT0\\n
DDU0\\x1e\\r`;
}

function generateBarcode(text, callback) {
    const canvas = document.createElement('canvas');
    bwipjs.toCanvas(canvas, {
        bcid: 'pdf417',
        text: text,
        scale: 3,
        height: 10,
        width: 30,
        includetext: false,
        textalign: 'center',
    }, (err) => {
        if (err) {
            console.error(err);
        } else {
            callback(canvas);
        }
    })
}

```

```
});  
}
```

```
function toggleSide() {  
  isFront = !isFront;  
  generateID();  
}
```

```
function downloadPNG() {  
  const canvas = document.getElementById('idCanvas');  
  const link = document.createElement('a');  
  link.download = 'Colorado_REAL_ID.png';  
  link.href = canvas.toDataURL();  
  link.click();  
}
```