Complete AWS Integration for Replit **Upload Center**

OVER A STANDARD OF THE STRUCTURE

You have everything set up:

- **S3 Buckets**: familyportal-docs-prod & familyportal-photos-prod
- **IAM Users**: family-portal-storage , FamilyPortalTextractS3Read
- **V** Lambda Function: With OpenAl API integration
- **V Textract Access**: For document analysis

FOR REPLIT AGENT - COMPLETE INTEGRATION **Tell Replit:**

"I have complete AWS infrastructure set up. Integrate my Upload Center with my existing S3 buckets and Lambda function for real document processing. Here's the exact integration:"

Step 1: S3 Upload Integration

```
JSX
const uploadToS3 = async (file, fileType) => {
  // Determine bucket based on file type
  const bucket = fileType.startsWith('image/')
    ? 'familyportal-photos-prod'
    : 'familyportal-docs-prod';
  const formData = new FormData();
  formData.append('file', file);
  formData.append('bucket', bucket);
  formData.append('key', `uploads/${Date.now()}-${file.name}`);
  try {
    const response = await fetch('/api/s3-upload', {
      method: 'POST',
     body: formData
    });
    const result = await response.json();
    return {
      id: generateId(),
```

```
name: file.name,
    size: file.size,
    type: file.type,
    s3Url: result.s3Url,
    s3Key: result.s3Key,
    bucket: bucket,
    status: 'uploaded',
    uploadedAt: new Date().toISOString()
};

} catch (error) {
    console.error('S3 upload failed:', error);
    throw error;
}
```

Step 2: Complete Upload Workflow

```
JSX
const handleFileUpload = async (files) => {
  try {
   // 1. Upload files to appropriate S3 buckets
    const uploadPromises = Array.from(files).map(file =>
     uploadToS3(file, file.type)
    );
    const uploadedDocuments = await Promise.all(uploadPromises);
    // 2. Open LEFT sidebar immediately
    setDocuments(uploadedDocuments);
    setSidebarOpen(true);
    // 3. Process each document with Lambda + Textract
    uploadedDocuments.forEach(async (doc) => {
      // Update status to analyzing
      updateDocumentStatus(doc.id, 'analyzing');
      // Call your Lambda function with S3 details
      const analysisResult = await callLambdaAnalysis(doc);
      // Update with real AI results
      updateDocumentStatus(doc.id, 'analyzed', analysisResult);
    });
  } catch (error) {
    console.error('Upload workflow failed:', error);
```

```
}
};
```

Step 3: Lambda + Textract Analysis

```
JSX
const callLambdaAnalysis = async (document) => {
  try {
    const response = await fetch('YOUR_LAMBDA_ENDPOINT', {
      method: 'POST',
      headers: {
        'Content-Type': 'application/json',
        'Authorization': 'Bearer YOUR_API_KEY'
      },
      body: JSON.stringify({
        s3Bucket: document.bucket,
        s3Key: document.s3Key,
        documentType: document.type,
        fileName: document.name
      })
    });
    const result = await response.json();
    return {
      // Textract OCR results
      extractedText: result.textractText,
      // OpenAI analysis results
      documentType: result.aiAnalysis.documentType,
      keyValuePairs: result.aiAnalysis.keyValuePairs,
      summary: result.aiAnalysis.summary,
      confidence: result.aiAnalysis.confidence,
      // Additional metadata
      pageCount: result.pageCount,
      language: result.language,
      processingTime: result.processingTime
    };
  } catch (error) {
    console.error('Lambda analysis failed:', error);
    return null;
  }
};
```

Step 4: File Type Routing

```
JSX
const handleUploadByType = async (files, uploadMethod) => {
  const processedFiles = [];
  for (const file of files) {
    let processedFile;
    if (file.type.startsWith('image/')) {
      // Photos go to photos bucket
      processedFile = await uploadToS3(file, 'image');
      processedFile.category = 'photo';
      processedFile.icon = 'ioi';
    } else if (file.type === 'application/pdf' ||
               file.type.includes('document')) {
      // Documents go to docs bucket
      processedFile = await uploadToS3(file, 'document');
      processedFile.category = 'document';
      processedFile.icon = '| | ';
    } else {
      // Default to docs bucket
      processedFile = await uploadToS3(file, 'document');
      processedFile.category = 'file';
      processedFile.icon = '5';
    }
    processedFile.uploadMethod = uploadMethod;
    processedFiles.push(processedFile);
  }
  return processedFiles;
};
```

Step 5: Enhanced Document Display

```
<img src={document.s3Url} alt="Thumbnail" className="photo-thumb"</pre>
/>
       ) : (
         <div className="doc-icon">{document.icon}</div>
       )}
     </div>
     <div className="document-info">
       <h4>{document.name}</h4>
       {formatFileSize(document.size)} • {document.category}
       {document.status === 'analyzing' && 'malysis in
progress...'}
         {document.status === 'analyzed' && '♥ Analysis complete'}
       </div>
     {/* Lightning bolt with analysis count */}
     {document.status === 'analyzed' && document.analysisResult && (
       <button
         className="lightning-bolt"
         onClick={() => showDetailsModal(document)}

    Details {document.analysisResult.keyValuePairs?.length | | 0}

       </button>
     )}
   </div>
  );
};
```

Step 6: Enhanced Details Modal

```
</div>
  </div>
  <button onClick={onClose}>×</button>
</div>
<div className="modal-content">
  {/* AI Analysis Results */}
  <div className="analysis-section">
    <h4>in Al Analysis</h4>
    <div className="analysis-grid">
      <div className="analysis-item">
        <span className="label">Document Type:</span>
        <span className="value">{analysis.documentType}</span>
      </div>
      <div className="analysis-item">
        <span className="label">Confidence:</span>
        <span className="value">{analysis.confidence}%</span>
      </div>
      <div className="analysis-item">
        <span className="label">Pages:</span>
        <span className="value">{analysis.pageCount}</span>
      </div>
    </div>
  </div>
  {/* Extracted Key-Value Pairs */}
  <div className="analysis-section">
    <h4> Extracted Information</h4>
    <div className="key-value-grid">
      {analysis.keyValuePairs.map((pair, index) => (
        <div key={index} className="key-value-pair">
          <span className="key">{pair.key}:</span>
          <span className="value">{pair.value}</span>
          <span className="confidence">{pair.confidence}%</span>
        </div>
      ))}
    </div>
  </div>
  {/* AI Summary */}
  {analysis.summary && (
    <div className="analysis-section">
      <h4>

// AI Summary</h4>
      <div className="summary-text">{analysis.summary}</div>
    </div>
  )}
  {/* Textract OCR Results */}
```

```
<div className="analysis-section">
         <h4>Q Extracted Text (OCR)</h4>
         <div className="extracted-text">
            {analysis.extractedText.substring(0, 1000)}
           {analysis.extractedText.length > 1000 && '...'}
         </div>
        </div>
       {/* S3 Information */}
        <div className="analysis-section">
         <h4>... Storage Details</h4>
         <div className="storage-info">
           <strong>Bucket:</strong> {document.bucket}
           <strong>Key:</strong> {document.s3Key}
           <strong>Upload Method:</strong> {document.uploadMethod}
           <strong>Upload Time:</strong> {new
Date(document.uploadedAt).toLocaleString()}
         </div>
        </div>
     </div>
     <div className="modal-actions">
        <button className="accept-btn" onClick={() =>
acceptDocument(document)}>
          Accept & Route to Profile
        </button>
        <button className="view-s3-btn" onClick={() =>
window.open(document.s3Url, '_blank')}>
         View in S3
       </button>
        <button className="dismiss-btn" onClick={onClose}>
         X Dismiss
        </button>
     </div>
   </div>
  );
};
```

CONFIGURATION FOR REPLIT

Provide Replit with:

1. S3 Bucket Names:

- Documents: familyportal-docs-prod
- Photos: familyportal-photos-prod

2. IAM Credentials:

- Access Key ID from family-portal-storage user
- Secret Access Key from family-portal-storage user

3. Lambda Endpoint:

- Your Lambda function URL
- Any API authentication needed

4. AWS Region:

• us-east-2 (Ohio) based on your screenshot

TELL REPLIT:

"Integrate my complete AWS infrastructure into the Upload Center workflow:

- 1. **Upload files** to my S3 buckets (photos \rightarrow familyportal-photos-prod, docs \rightarrow familyportal-docs-prod)
- 2. **Open LEFT sidebar** with uploaded documents
- 3. Call my Lambda function with S3 details for Textract + OpenAI analysis
- 4. **Show real AI results** in lightning bolt details modal
- 5. Display S3 storage info and extracted data

I'll provide the S3 credentials, Lambda endpoint, and AWS region. This should give me production-ready document processing with real AI analysis."

This creates a complete enterprise-grade document processing system!