

AI Document-to-Scenario Training Platform

Stop spending weeks creating VR training content.



Company Name

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AI Document-to-Scenario Training Platform

Product Overview

The AI Document-to-Scenario Training Platform revolutionizes how organizations create immersive VR training content. Instead of spending weeks scripting scenarios, training managers simply upload their existing documents - policies, procedures, compliance materials - and our AI automatically transforms them into engaging VR roleplay experiences.

What It Does: Transform any training document into interactive VR scenarios where employees practice real-world conversations and decision-making in a risk-free virtual environment.

Who It's For:

- **Financial Services:** Compliance training, customer service protocols, regulatory scenarios
- **Credit Unions:** Member interaction training, policy updates, procedure practice
- **Enterprise Organizations:** Any company needing scalable, current VR training content

Key Value Proposition:

- **85% faster** content creation compared to traditional VR development
- **Always current** scenarios that automatically update when policies change
- **Zero technical skills** required - designed for training managers, not developers
- **Enterprise-grade** security and Microsoft ecosystem integration

The Problem We Solve

Traditional VR training content creation is expensive, time-consuming, and quickly outdated. Organizations either:

- Spend months with external vendors creating static content
- Rely on generic scenarios that don't reflect their actual policies
- Abandon VR training due to production complexity and costs

Our Solution

Document Upload → AI Processing → VR Deployment

Upload your existing training materials, configure basic parameters, and deploy realistic VR scenarios to Meta Quest 3 headsets in hours, not months. When your documents change, scenarios automatically update to keep training current.

Technical Implementation Guide

Overview

This guide details how training managers use our platform to transform documents into VR roleplay scenarios, from upload to Meta Quest 3 deployment. Our enterprise-grade Azure architecture ensures scalable, secure processing of training materials.

System Architecture

Our platform leverages Microsoft Azure cloud services with AI-powered content generation to deliver a comprehensive document-to-VR pipeline.

Core Components:

- **Web Interface:** React-based dashboard for scenario management
- **Azure Functions:** Serverless processing for document transformation
- **CosmosDB:** Scalable database for scenario storage and retrieval
- **Azure AI Services:** Fine-tuned models for content generation
- **Unity VR Engine:** Meta Quest 3 deployment pipeline

User Workflow

Who Uses This: Training managers, L&D administrators, compliance officers in financial services and regulated industries.

Prerequisites:

- Microsoft authentication access via Azure Marketplace
- Training documents (PDFs, Word files, policies)
- Meta Quest 3 headsets for deployment

Step-by-Step Process

1. Secure Access & Authentication

- Single sign-on via Microsoft Authentication Library (MSAL)
- Azure Marketplace authentication service integration
- Enterprise-grade security and access controls

2. Document Upload & Management

- Upload files directly through web interface or sync from SharePoint
- Azure Functions automatically process and categorize documents
- Files stored securely in Azure Blob Storage with organized containers

3. AI-Powered Scenario Configuration

- Configure training objectives and learning goals via React interface
- Select from pre-built personas library or create custom characters
- Set dialogue complexity, tone, and interaction parameters
- System stores configurations in CosmosDB for reuse

4. Automated Content Generation

- Azure AI Services process documents using fine-tuned language models
- Creates realistic dialogue variations and conversation branches
- Generates multiple scenario paths based on training objectives
- Automatic content updater monitors document changes via web scraping

5. Quality Control & Review

- Preview generated scenarios through web dashboard
- Edit content, personas, or prompts using intuitive interface
- Feedback system captures user interactions and improvements
- Version control for scenario iterations stored in Blob Storage

6. VR Production & Deployment

- Unity engine builds VR-ready applications (APK format)
- Dynamic speech system integrates with 3rd party AI services
- One-click deployment to Meta Quest 3 headsets
- Real-time performance metrics and usage analytics

Technical Architecture Details

Cloud Infrastructure:

- **Azure Functions:** Serverless processing for document ingestion and scenario generation
- **CosmosDB:** NoSQL database for storing scenarios, personas, configurations, and feedback metrics
- **Blob Storage:** Secure file storage for documents, generated content, and reference materials
- **Azure AI Services:** Custom-trained models for educational content generation

Integration Capabilities:

- **SharePoint:** Direct document synchronization and management

- **MSAL Authentication:** Seamless Microsoft ecosystem integration
- **Third-Party AI:** External speech and language processing services
- **Unity VR Pipeline:** Automated APK generation and headset deployment

Data Flow:

1. Documents uploaded via web interface or SharePoint sync
 2. Azure Functions process and vectorize content
 3. AI services generate scenarios based on configurations
 4. Generated content stored in Blob Storage containers
 5. Unity builds VR applications for Meta Quest 3 deployment
 6. Feedback metrics collected and stored for continuous improvement
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Key Features & Capabilities

AI Generation:

- Fine-tuned Azure OpenAI models specifically for training content
- Custom persona generation and dialogue variation
- Bilingual support (English/French) with cultural adaptation

Automation:

- Scheduled scenario generation and processing
- Automatic content updates when source documents change
- Web scraping for external content monitoring
- Error handling and recovery mechanisms

Enterprise Security:

- Azure cloud-based encryption and compliance
 - Role-based access control via MSAL
 - Secure document handling and storage
 - Audit trails and usage monitoring
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Success Metrics & Analytics

Performance Indicators:

- Scenario generation time and throughput
- Training objective alignment and effectiveness
- User satisfaction with generated content quality

- VR deployment success rates and headset utilization

Quality Assurance:

- Automated content validation and error detection
 - Feedback loop integration for continuous improvement
 - Version control and rollback capabilities
 - Real-time monitoring and alerting
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Integration Options

Existing Systems:

- SharePoint document management integration
- LMS connectivity (Moodle, Blackboard, custom platforms)
- REST API for custom enterprise integrations
- Single sign-on with Microsoft authentication services

Deployment Models:

- Azure Marketplace subscription-based access
 - Enterprise custom deployment options
 - Hybrid cloud and on-premises configurations
 - Multi-tenant and single-tenant architectures
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System Requirements

Client Side:

- Modern web browser for dashboard access
- Meta Quest 3 VR headsets for training delivery
- Stable internet connectivity for cloud processing

Server Side:

- Azure cloud infrastructure (automatically provisioned)
 - Microsoft authentication services
 - Adequate bandwidth for document processing and VR content delivery
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Architecture Diagram

(Architecture shown for illustrative purposes. Implementation details may vary based on deployment requirements, customer feedback, and platform evolution.)

