

**MICHIGAN STATE**  
**UNIVERSITY**

## Beta Presentation

# Tech Ops Training Content Management System The Capstone Experience

Team United Airlines Training

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*From Students...  
...to Professionals*

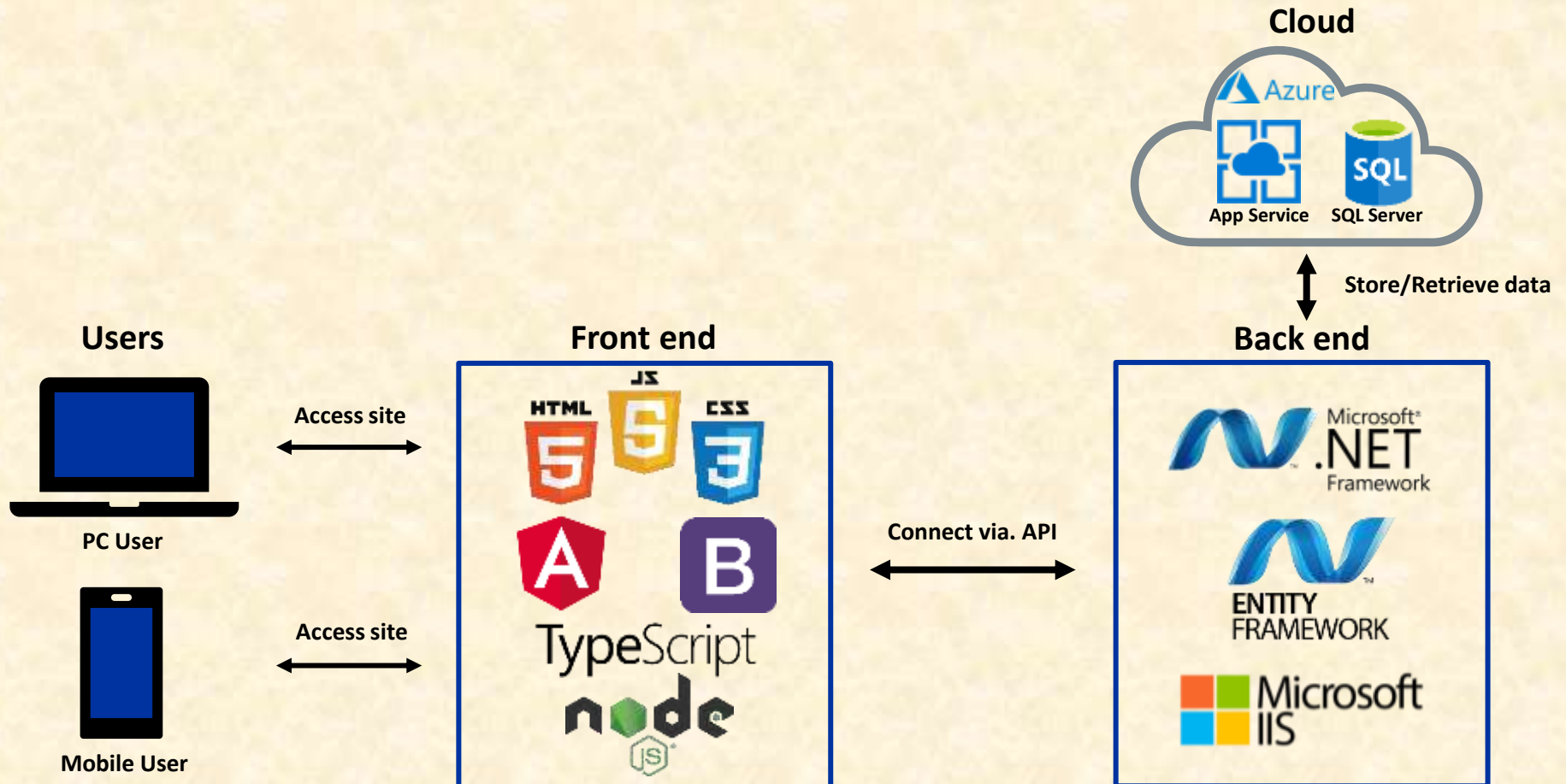
Department of Computer Science and Engineering  
Michigan State University  
Fall 2020

# Project Overview

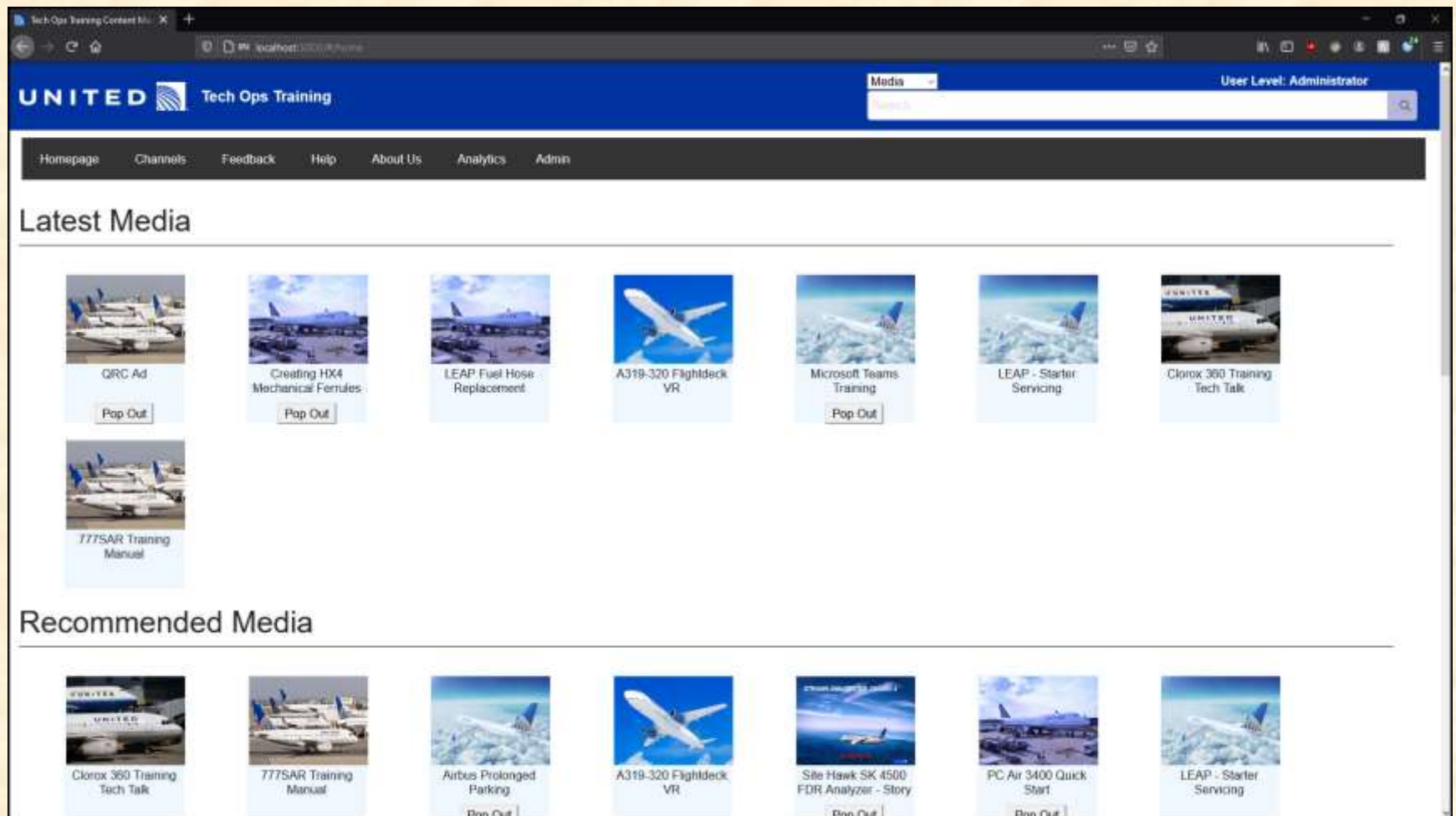
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- Web application used to organize and supply media content for training purposes
  - Supports many media formats such as MP4, HTML, PDF, and external links
- Dynamically recommends content to users based on stored data and analytics

# System Architecture



# Homepage



# Media Page - Desktop

The screenshot shows a web browser window displaying the 'United Tech Ops Training' media page. The browser's address bar shows 'localhost:3000'. The page has a blue header with the 'UNITED Tech Ops Training' logo on the left and a search bar on the right with the text 'Media' and 'User Level: Administrator'. Below the header is a navigation bar with links: 'Homepage', 'Channels', 'Feedback', 'Help', 'About Us', 'Analytics', and 'Admin'. The main content area features a large video player on the left showing a VR tour of an A319-320 cockpit. To the right of the video player, the title 'A319-320 Flightdeck VR' is displayed, followed by '106 Views' and 'Uploaded Nov 7, 2020'. Below this, there are '2 Likes' and '0 Dislikes'. Two buttons, 'Send Feedback' and 'Generate Report', are visible. A 'Media Description' section follows, stating 'A VR tour of the A319-320'. Below the description is a 'Related Media' section with three items: 'Airbus 319/20 NLG Strut Repack', 'Site Hawk SK 4500 FDR Analyzer - Calibration', and 'Site Hawk SK 4500 FDR Analyzer - Story'. At the bottom left, a 'Queued Comments' section shows 'No comments waiting for approval'.

UNITED Tech Ops Training

Media

User Level: Administrator

Homepage Channels Feedback Help About Us Analytics Admin

A319-320 Flightdeck VR

106 Views

Uploaded Nov 7, 2020

2 Likes 0 Dislikes

Send Feedback Generate Report

Media Description

A VR tour of the A319-320

Related Media

Airbus 319/20 NLG Strut Repack

Site Hawk SK 4500 FDR Analyzer - Calibration

Site Hawk SK 4500 FDR Analyzer - Story

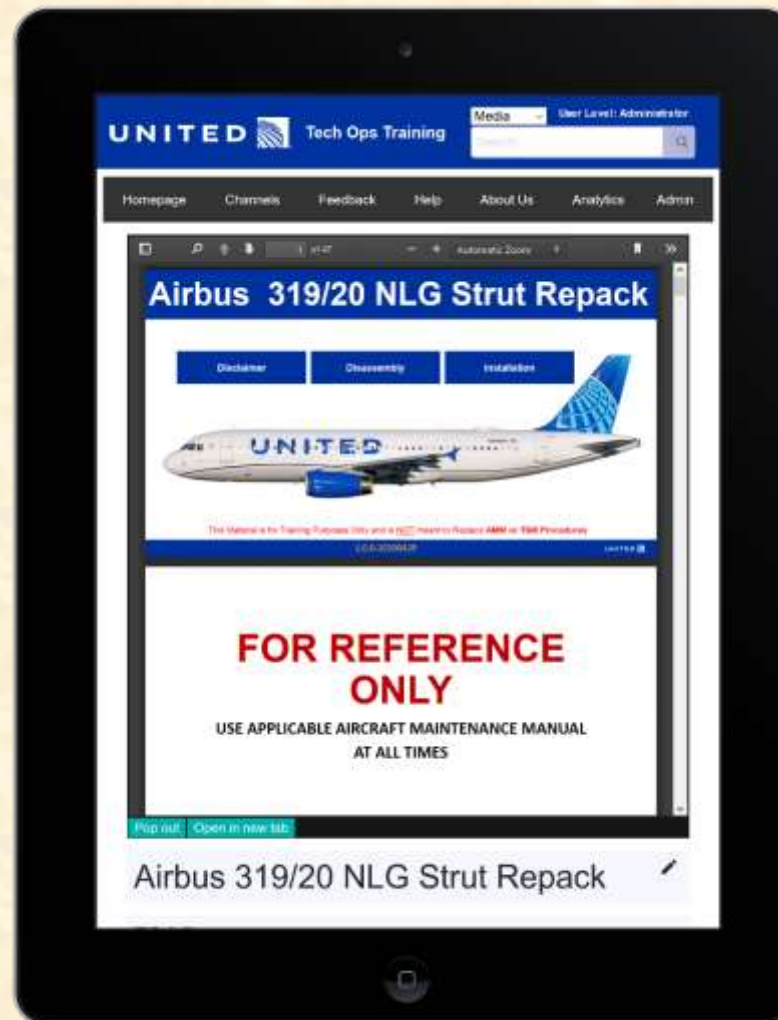
Queued Comments

No comments waiting for approval

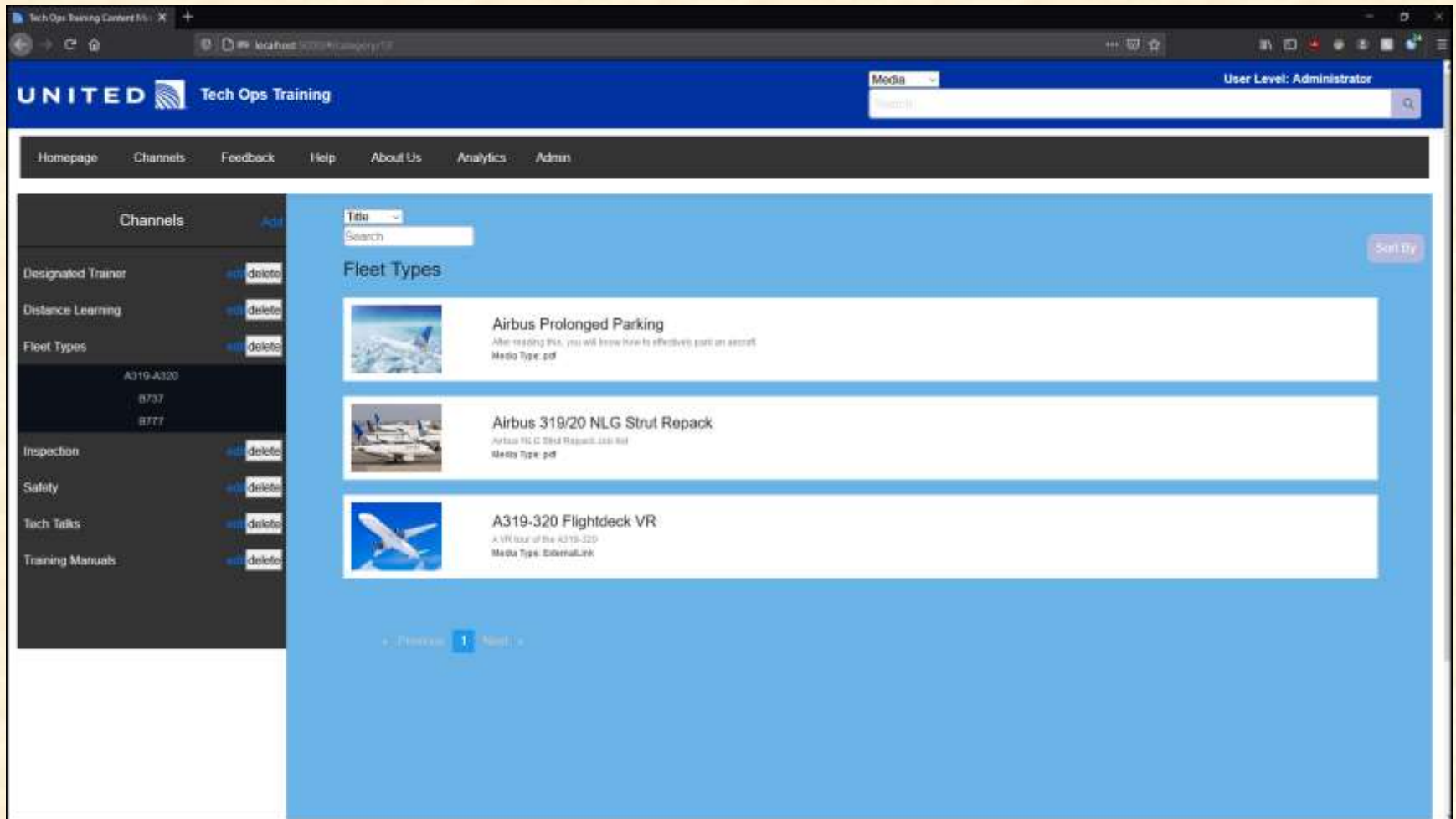




# Media Page - Mobile



# Channel Page



The screenshot displays the 'United Tech Ops Training' web application. The top navigation bar is blue with the United logo and 'Tech Ops Training' text. A search bar is on the right, and the user level is 'Administrator'. Below the navigation bar is a dark grey menu with links: Homepage, Channels, Feedback, Help, About Us, Analytics, and Admin. The main content area has a light blue background. On the left, a 'Channels' sidebar lists various training categories with 'Add' and 'delete' buttons. The main area shows a 'Fleet Types' section with a search bar and a 'Sort By' button. Three training items are listed: 'Airbus Prolonged Parking' (pdf), 'Airbus 319/20 NLG Strut Repack' (pdf), and 'A319-320 Flightdeck VR' (ExternalLink). A pagination bar at the bottom shows 'Previous', '1', and 'Next'.

United Tech Ops Training

Media User Level: Administrator

Homepage Channels Feedback Help About Us Analytics Admin

Channels Add

Designated Trainer add delete

Distance Learning add delete

Fleet Types add delete

A319-A320

B737

B777

Inspection add delete

Safety add delete

Tech Talks add delete

Training Manuals add delete

Title Search

Fleet Types Sort By

Airbus Prolonged Parking  
After reading this, you will know how to effectively park an aircraft  
Media Type: pdf

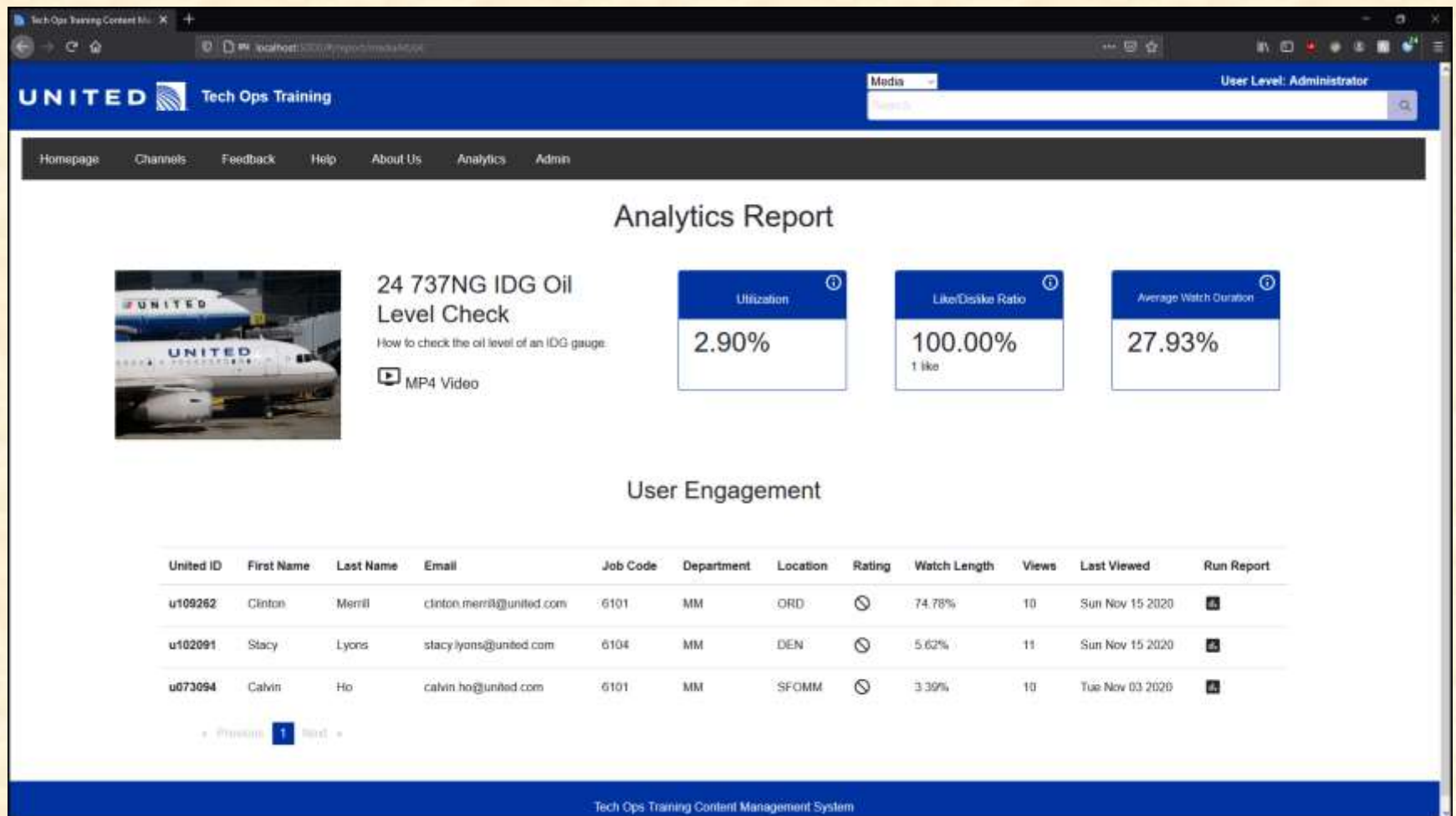
Airbus 319/20 NLG Strut Repack  
Airbus NLG Strut Repack add delete  
Media Type: pdf

A319-320 Flightdeck VR  
A VR tour of the A319-320  
Media Type: ExternalLink

Previous 1 Next



# Media Analytics Page





# What's left to do?

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- Improve visual appearance
  - Optimize for mobile devices
- Streamline user experience
- Add role-based security
- Optimize page loading
- Improve existing search functionality



# Questions?

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