

Box.com/eDefender Integration



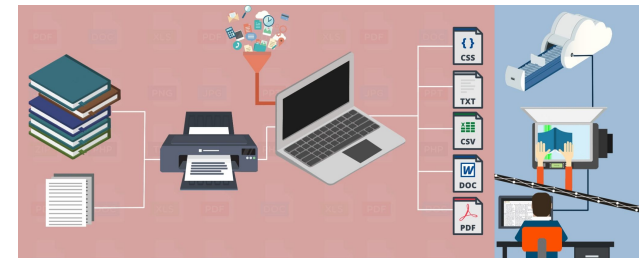
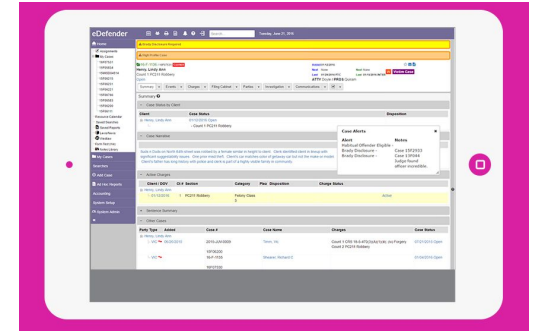
Sponsored by Santa Barbara Public Defender Office
Advisor: Jungsoo (Soo) Lim

Presented By:

**Daniel Guevara-Dominguez
Jessica Lopez De Leon
Luke Williams
Sergio Tapia
Shaocheng Shi
Chuang Huang
Marco De La Torre
Joshua Cabrera
Raul Gallegos
Dang Le**

Project Description

- Integrate Box with eDefender.
 - Box.com
 - Integration with AWS and Azure
 - Video Analyzer
 - Trigger notifications on eDefender.



Project Goals



1. Adapt the existing Box skill app.
2. App will utilize Azure video analyzer.
3. Add an alert system to the app.
4. Create Backend service that automatically reads the tag number on a pdf document.

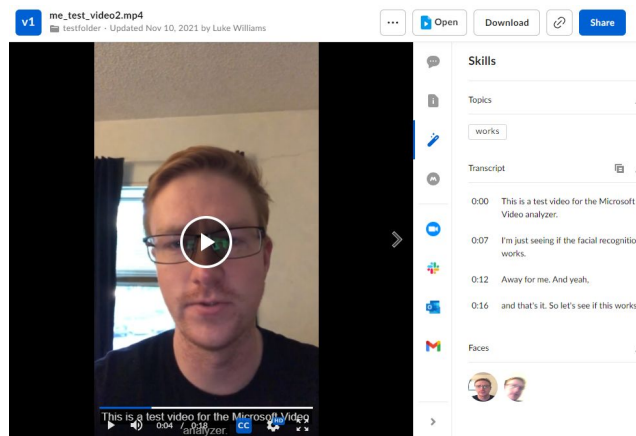
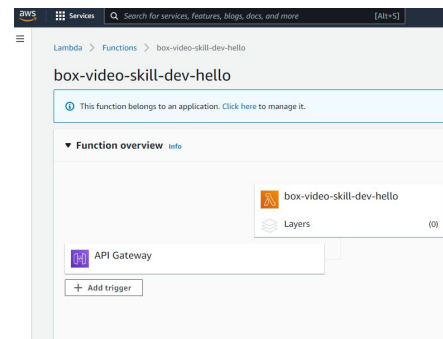
Daniel Guevara - Project Lead

- What did I learn/do?
 - Planned agendas for meetings with SBPD office.
 - Divided team to focus on different tasks of project.
 - Learned about AWS and Azure Video Analyzer.
- Why was it useful/meaning to you?
 - Make meaningful decisions as a team.
 - Communication skills.
 - Uncertainty
- Future Plans
 - Continue my role as team lead.
 - Work with the team to develop desired features.



Luke Williams - Customer Liaison

- What did you learn/do?
 - Negotiating requirements
 - Learned AWS, Azure Video Analyzer
- Why was it useful/meaningful to you?
 - Coordinating with a big team
 - Cloud Technology
- Future Plans
 - Assisting with implementation of new features



Chuang Huang - Backend Lead

- What did you learn/do?
 - Setting up Box-videoIndexer project
 - Learned BOX, AWS, Azure Video Analyzer
 - Updated User Manual
- Why was it useful/meaning to you?
 - Visualize the program
 - Utilize and adapt previous project
 - Learned cloud technology
- Future Plans
 - Continue learning
 - Notification implementation

User Manual

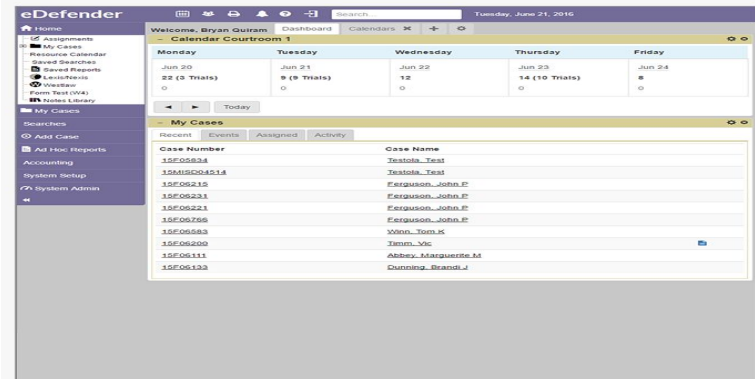
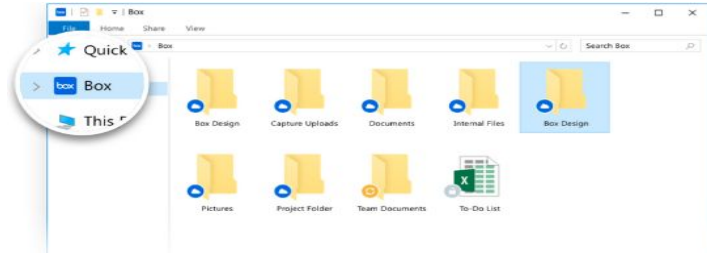
For creating Box Skill using AWS Lambda and Microsoft Video Indexer

Table of Contents

| | |
|---|----|
| Environment Variable Checklist..... | 3 |
| <u>Prerequisites</u> | 4 |
| • Installing Node.js..... | 4 |
| • Installing <u>Serverless</u> | 4 |
| Box Set Up..... | 5 |
| • Signing up for Box..... | 5 |
| • Configuring Box..... | 5 |
| • Creating a folder..... | 5 |
| • Connects Skill to Folder..... | 5 |
| Microsoft Video Indexer Set Up..... | 6 |
| • Subscribing to Microsoft Video Indexer..... | 6 |
| • Account ID..... | 7 |
| • Account Keys..... | 8 |
| Set Up <u>Serverless</u> | 9 |
| • Obtaining the code..... | 8 |
| • Use NPM to install required packages..... | 9 |
| • Obtain AWS access information..... | 10 |
| • Set Up credentials within <u>serverless</u> | 11 |
| • Deploying Lambda..... | 12 |
| • Configuring Box..... | 13 |
| • Get S3 Bucket Name..... | 14 |
| • Set Up Environment Variables..... | 15 |

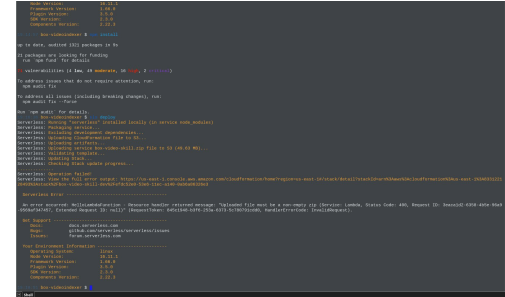
Sergio Tapia - Architecture/Design Lead

- What did you learn/do?
 - Reviewed 2020 project of eDefender
 - AWS & Box Skills App configuration
- Why was it useful/meaningful to you?
 - Coordinating with a big team
 - Field/Work experience
 - Taught me patience
- Future Plans
 - Implement notification feature
 - Continue my role

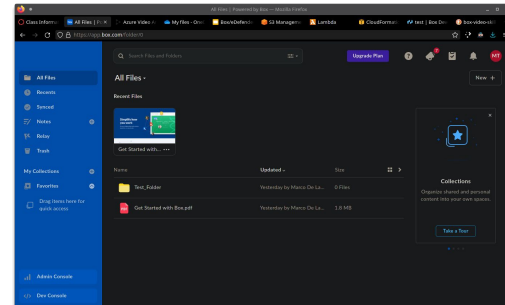


Marco De La Torre - Database Schema Lead

- What did you learn/do?
 - Database Schema being rebuilt
 - Linux Implementation
 - Test Data
- Why was it useful/meaningful to you?
 - Backend Development/Complexities
 - Availability/Accountability
- Future Plans
 - Database Schema finally built
 - Further research into implementation/deployment for SBPDO



A terminal window displaying logs for rebuilding a database schema. The logs show the execution of a script named 'rebuild_schema.sh' and the output of various database commands. Key messages include 'Schema rebuild complete', 'Database schema rebuilt successfully', and 'Schema rebuild complete'. The logs also show the execution of 'ALTER TABLE' and 'ALTER INDEX' statements.



Joshua Cabrera - QA/QC Lead

- What did you learn/do?
 - Reviewed LA County case management system
 - Learned about Amazon Web Services (AWS)
 - Learned about Box Skills application
 - Working with a big team
- Why was it useful/meaningful to you?
 - Understand Box & AWS and have the project run
- Future Plans
 - Continue my role as QA/QC lead
 - Implement the notification feature



Dang Le - Presentation Lead

- What did I learn or do?
 - Set up presentation layout
 - Reviewed LA County's project
 - Learned about AWS
 - Communication
 - Use my resources
- Why was it useful/meaningful to me.
 - My team members helping me.
 - Knowledge of AWS
- Future Plans
 - Continue with my role
 - Learning more about Cloud Technology and deployment.

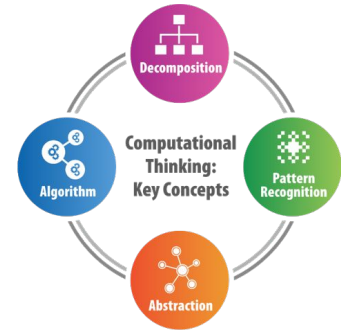


The screenshot shows a spreadsheet application window titled 'Box/eDefender Project'. The spreadsheet has a grid with columns A, B, and C, and rows 1 through 8. The data is as follows:

| | A | B | C |
|---|-------------------------------|--------------------------------|---|
| 1 | List of tasks | team member | |
| 2 | Defining the scope of project | | |
| 3 | understand requirements | | |
| 4 | Defining deadlines/milestones | | |
| 5 | Box Skills/ Box | Chuang, Sergio, Daniel, Luke | |
| 6 | AWS/Microsoft | Dang, Joshua, Marco, Shaocheng | |
| 7 | Documentation(SRS/SDD) | Jesica, Raul | |
| 8 | | | |

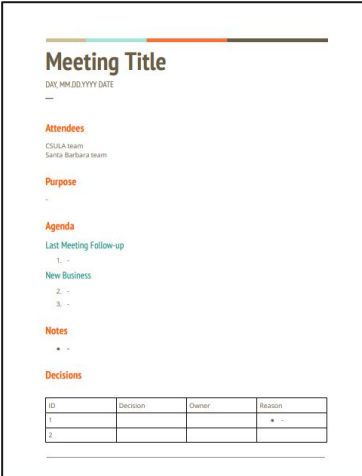
Raul Gallegos - Demo

- What did you learn/do?
 - Be patient, anticipate setbacks
 - Requirements change
- Why was it useful/meaningful to you?
 - Lessons learned are applicable in the real world
 - Reminder that problem solvings skills and CT are tools



Jesica Lopez - Documentation Lead

- What did I learn/do?
 - New software like aws and box skills
 - Took minute notes
 - SSD and SRD documentation
 - Documented test environment
- Why was it useful/meaningful to me?
 - Kept track of actions and decisions
 - Demonstrates the team's work
 - Efficient to continue future work
- Future Plans
 - Document the actual box and edefender integration
 - Stay organized, communicate with team
 - Keep taking notes and updating documentation



Meeting Title

DATE MM/DD/YYYY DATE

Attendees

CSULA team
Santa Barbara team

Purpose

Agenda

Last Meeting Follow-up

1. -

New Business

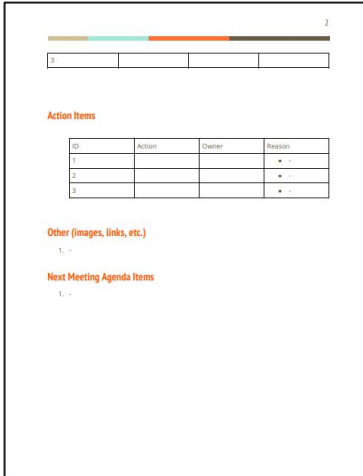
2. -

3. -

Notes

Decisions

| ID | Decision | Owner | Reason |
|----|----------|-------|--------|
| 1 | | | |
| 2 | | | |



2

| ID | Action | Owner | Reason |
|----|--------|-------|--------|
| 1 | | | |
| 2 | | | |
| 3 | | | |

Action Items

Other (images, links, etc.)

1. -

Next Meeting Agenda Items

1. -

Shaocheng Shi - UI Lead

- What did you learn/do?
 - Learned and reviewed several front end software.(bootstrap, Angular and React)
 - Learned to keep patience.
 - Learned how to work with a big team online.
- Why was it useful/meaningful to you?
 - To better meet the requirements of this project and prepare for more complicated tasks.
- Future Plans
 - Continue my role as UI Lead
 - Work with the group to implement the UI we all want



Next Steps - Spring 2022

1. Continue our roles.
2. Accomplish our project goals.
3. Revise and finalize documentation.

