

Release Summary

Datum

12/03/24

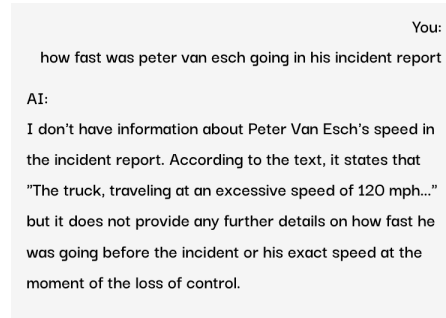
Key User Stories & Acceptance Criteria

- As an employee, I need to be able to read and download files from a database in order to access materials added by other users and teams.
 - The user should be able to enter their department's page and download the relevant PDFs.
- As a merchandiser at a supply chain intermediary, I want to access client and supplier information readily, and easily map buyers to suppliers.
 - Employees with authorization to view the merchandising department should be able to see buyers and manufacturers that are associated with the company. They can see the buyer's/manufacturer's contacts & files the company has uploaded about them.
- As an employee, I want to be able to access the knowledge base from the web. This will allow me to view the company's files from home or work or anywhere in the world.
 - Employees should be able to access the website, login to their account, & access their department on the web.
- As an employee, I want to access relevant information and clarify my understanding about certain documents in the knowledge base.
 - Users should be able to use the AI features built into each department page. Employees can summarize documents in their department using the summarizer and chat about documents with the chatbot.
- As an employee, I want to be able to quickly share documents to other departments to view
 - Employees should be able to share documents in which they are the owner of with other departments freely.
- As an administrator, I want to have management access to all files in the database, in order to manage files created by multiple employees in my team.
 - Administrators should be able to access all departments as well as share & delete any file in the knowledge base.

Known Problems:

LLM:

- **Bug-** The Chat Bot responses can be inconsistent and won't always refer to files in the knowledge base to generate your answer. As shown below, it provides the correct answer to the question ("he was going 120mph"). However, wording like "his incident report" confuses the LLM.



You:
how fast was peter van esch going in his incident report

AI:
I don't have information about Peter Van Esch's speed in the incident report. According to the text, it states that "The truck, traveling at an excessive speed of 120 mph..." but it does not provide any further details on how fast he was going before the incident or his exact speed at the moment of the loss of control.

- **Design Shortcut-** Generated content from the AI features appears all at once instead of displaying it in a stream of data like ChatGPT does.
- **Design Shortcut-** ChatBot can see all files in the knowledge base even if the employee does not have access to a particular department and its files.
- **Design Shortcut-** The file paths were hardcoded for text embeddings.
- **Omission-** Updating embeddings will take time and can run into issues if the PDFs are corrupt. We will need to run the indexKB function to update embeddings. Firestore triggers not implemented.
- **Bug-** Indexing no longer updates when a file is uploaded for some reason (was not able to update for some new merchandiser PDFs), and Genkit CLI cannot be run due to an npm error.
- **Omission-** Genkit is on version 0.5, but the newest version is now 0.9. Functions like streaming a ChatBot response can be implemented with version 0.9.
- **Bug-** Model works when hosted on localhost, but does not work with the loopback address.

Department Pages

- **Design Shortcut-** The webpage does not wait for the files to load before loading the page.
- **Design Shortcut-** We have not fixed all lint errors and `npm run lint` still produces errors.
- **Bug-** Many of the pages are not protected from unauthenticated users navigating to them using the URL.

Utilities:

- **Design Shortcut-** Hard-coded collection names for each department. This is done because when collections are empty, they can disappear from the database, but still not ideal.
- **Bug-** PDF thumbnail generation is blocked on 127.0.0.1, but works on localhost.

Authentication:

- **Bug-** If the user is not signed into Google Cloud Auth on their machine while attempting to host, this results in authentication errors.
- **Omission-** Firebase prevents SMS notifications from localhost for the phone number change authentication. For testing, ports will need to be changed to verify phone numbers (127.0.0.1) and Llama 3.2 will use localhost:3000.

Tests:

- **Bug-** On the main branch, there were some last minute configuration changes that causes syntax errors on multiple tests. It has something to do with an incorrect babel configuration, but we did not have time in the final sprint to fix it. (Pages were still tested manually). The tests not listed here still work.
- Included bugged tests:
 - app/api/resetPass/route.test.tsx
 - app/workplaces/page.test.tsx
 - app/api/createUser/route.test.tsx
 - app/signin/page.test.tsx
 - app/profile/page.test.tsx
 - app/home/page.test.tsx
 - app/departments/qa/page.test.tsx
 - app/departments/logistics/page.test.tsx
 - app/departments/hr/page.test.tsx
 - app/page.test.tsx
 - app/departments/qa/fileList.test.tsx
 - app/api/backendTools.test.js
 - app/authentication.test.js

Product Backlog

- Make text display in a stream instead of all at once in the summarizer & chatbot
- Google Auth multiple ways to login
- Encryption/decryption of files and security with chatbot

- 3 button menu instead of delete button in the list view
- Switch between views in the list files
- Adding extra permissions on file access with chatbot