

Dwyer Chrome Extensions

Background

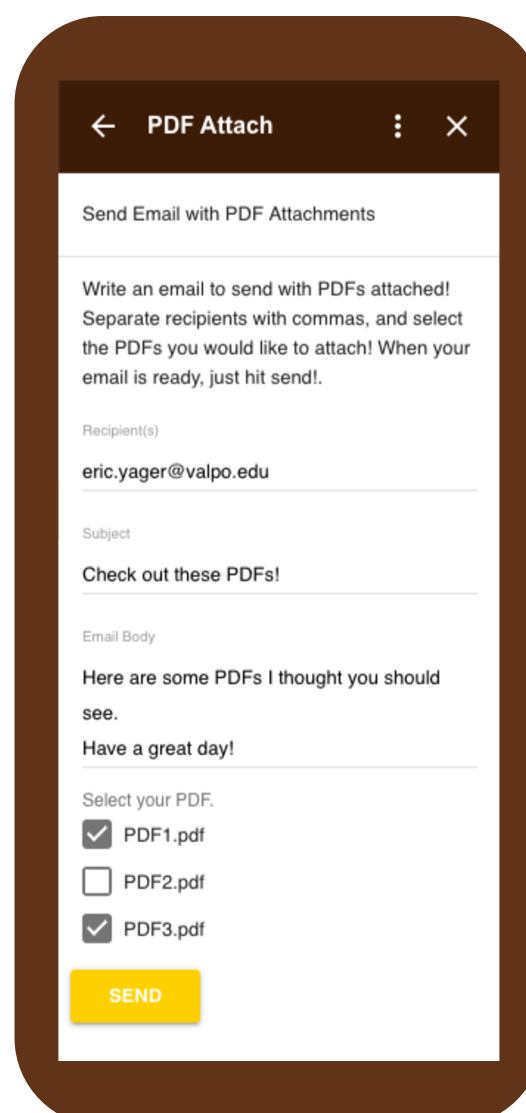


- Dwyer Instruments decided to migrate from a largely on-premises, Microsoft Office and Windows based infrastructure to Google Cloud based services.
- The transition disrupted a number of workflows and habits, impacting overall business processes and creating friction for adoption by their workforce.
- Dwyer IT sought to mitigate this by working with outside developers and partnered with a CS 358 Project Team to build a variety of G-Suite based solutions to reduce the issues.
- The ultimate goal was the creation of sufficiently similar alternatives to the Microsoft tools, at a production level of quality, that would reduce stress for both IT and the larger Dwyer family.

PDF Attacher



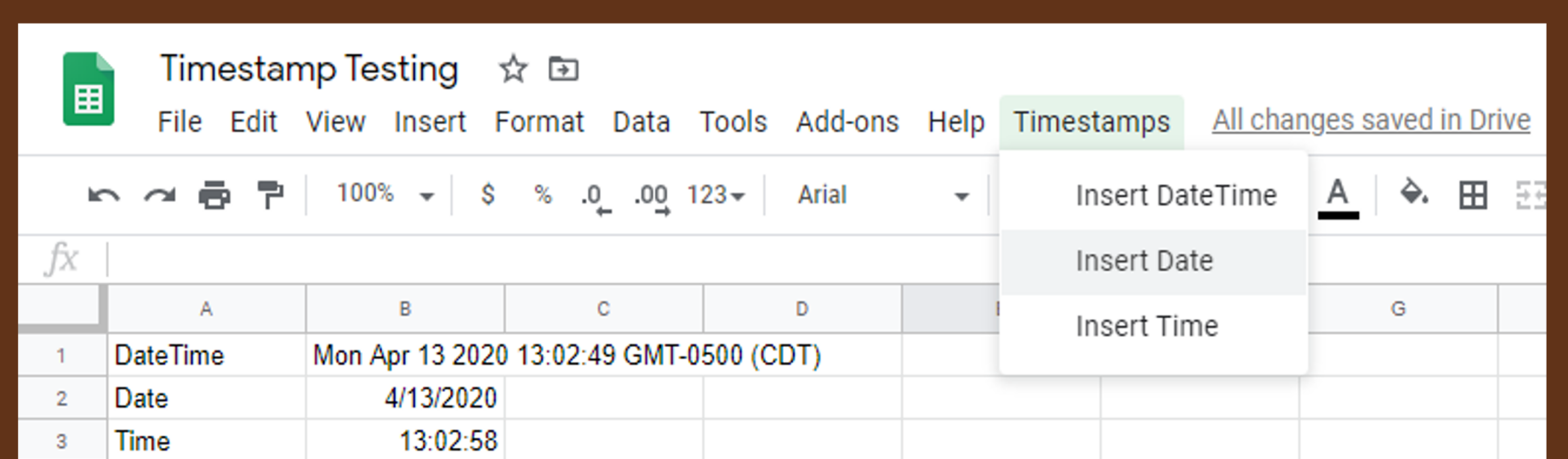
- One feature from Microsoft that Dwyer employees liked was a button that allowed a PDF email attachment to be automatically attached to a new draft email.
- Gmail does not have that function by default, but add-ons can add functionality. These are relatively new, so documentation is scarce. This made development slow and difficult.
- The final product is an in-page side window in Gmail and Drive that allows attachments from selected conversations or Drive files to be attached to an email and sent.



Timestamp



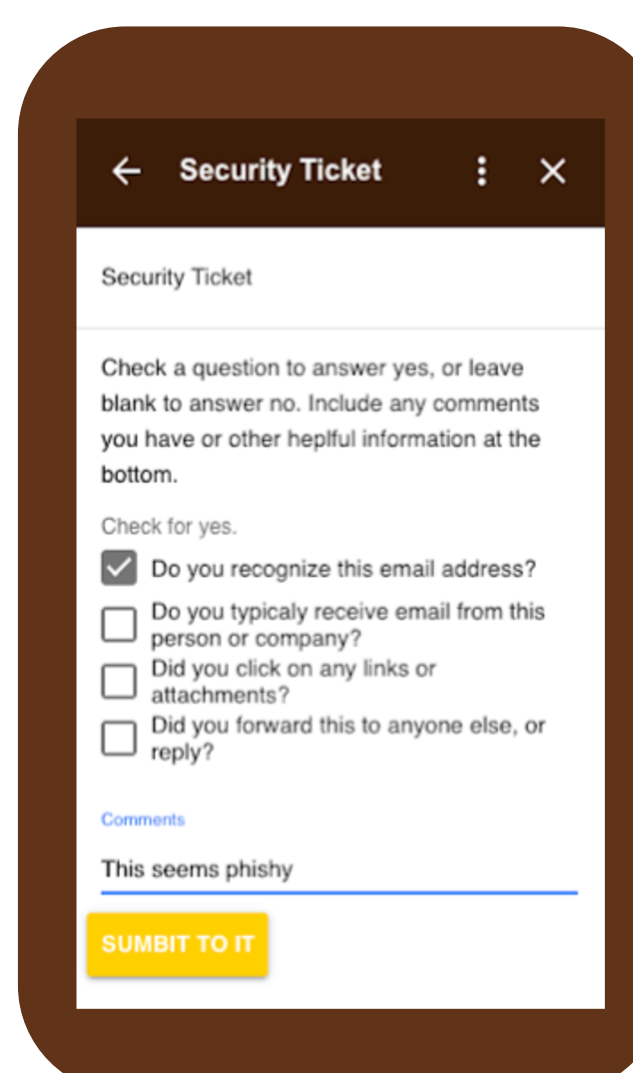
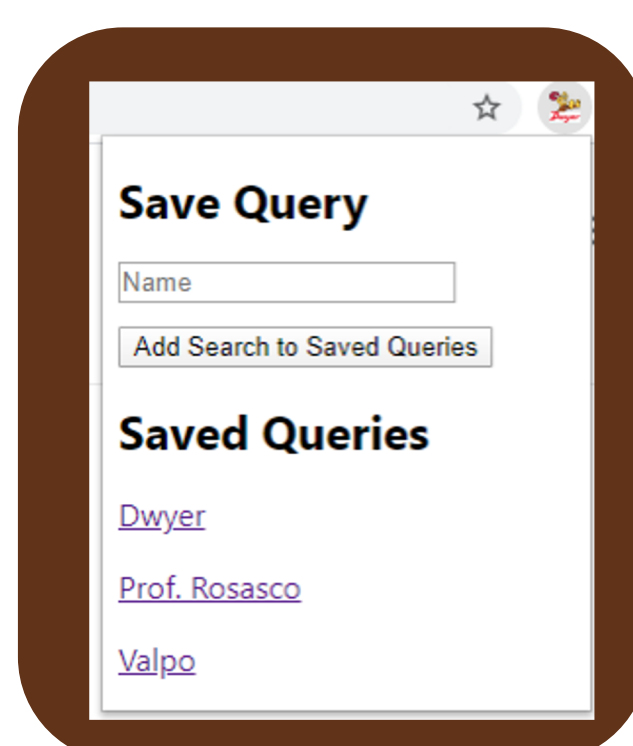
- Dwyer previously was able to insert the current date and time into Excel.
- The solution was to create a Google sheets add-on that gives Dwyer the ability to select a cell of their choosing and then use the add-on to automatically put the date and time in that cell.
- This will greatly help Dwyer to keep track of past meeting dates, and alleviates any possibility of incorrect formatting or human error.



Other Features



- A timeline chart as a Google Sheets add-on that will have the ability to chart the progress of projects in Dwyer and have them able to be easily read in Google Sheets.
- A saved queries in Gmail that will be a Chrome Extension to save searches, then be able to be easily selected and when prompted searched in Gmail.
- A security ticket add-on for Gmail now allows Dwyer employees to easily forward suspicious emails to IT.



Team Members



- Eric Yager - Computer Science, '22
- Zack Lee - Data Science, '22
- Billy Skedd - Computer Engineering, '20
- Doug Skedd - Computer Science, '22
- Ray Zimmerman - Computer Science, '22

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