MICHIGAN STATE
UNIVERSITY

Alpha Presentation

Making Firefox's Picture-in-Picture Even More Awesome

The Capstone Experience

Team Mozilla

Niklas Baumgardner
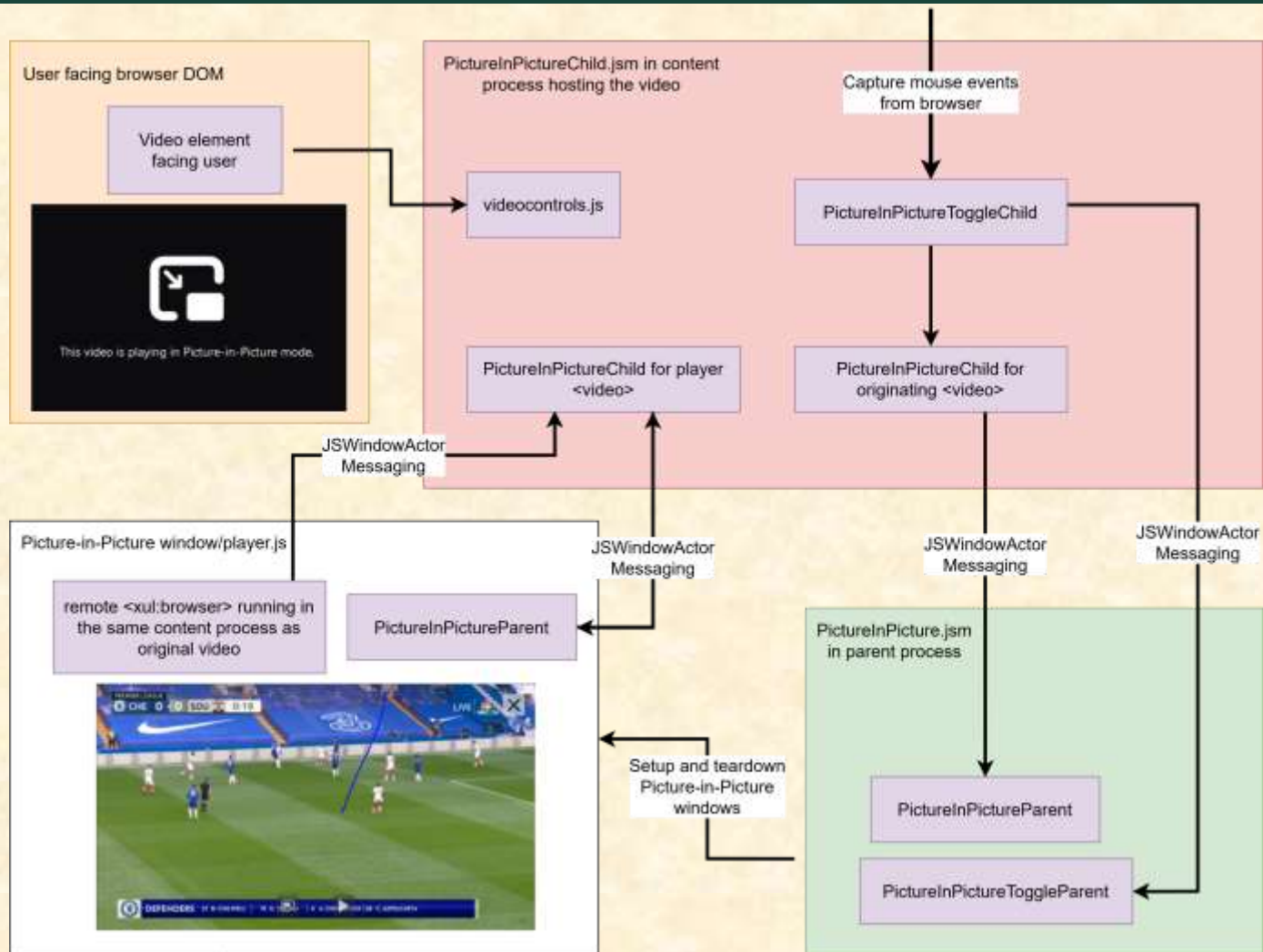Chris Jackson
Hunter Jones
Manish Rajendran
Reid Shinabarker

Department of Computer Science and Engineering
Michigan State University
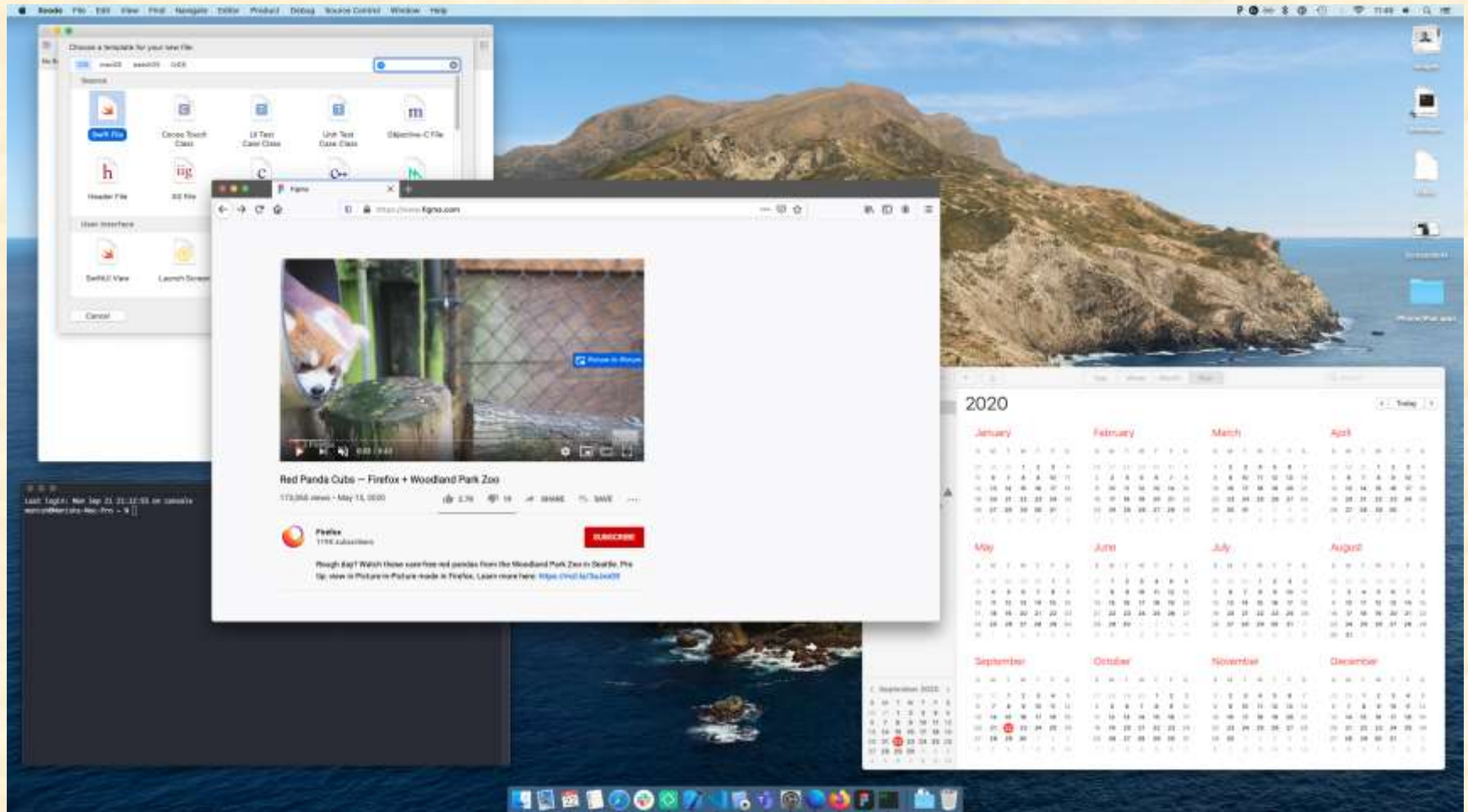Fall 2020

Project Overview

- Make Picture-in-Picture even more awesome

- Fix bugs involving Picture-in-Picture

- Add features to Picture-in-Picture
  - Multiple Picture-in-Picture windows
  - Corner snapping
  - Reopening at last used Picture-in-Picture location

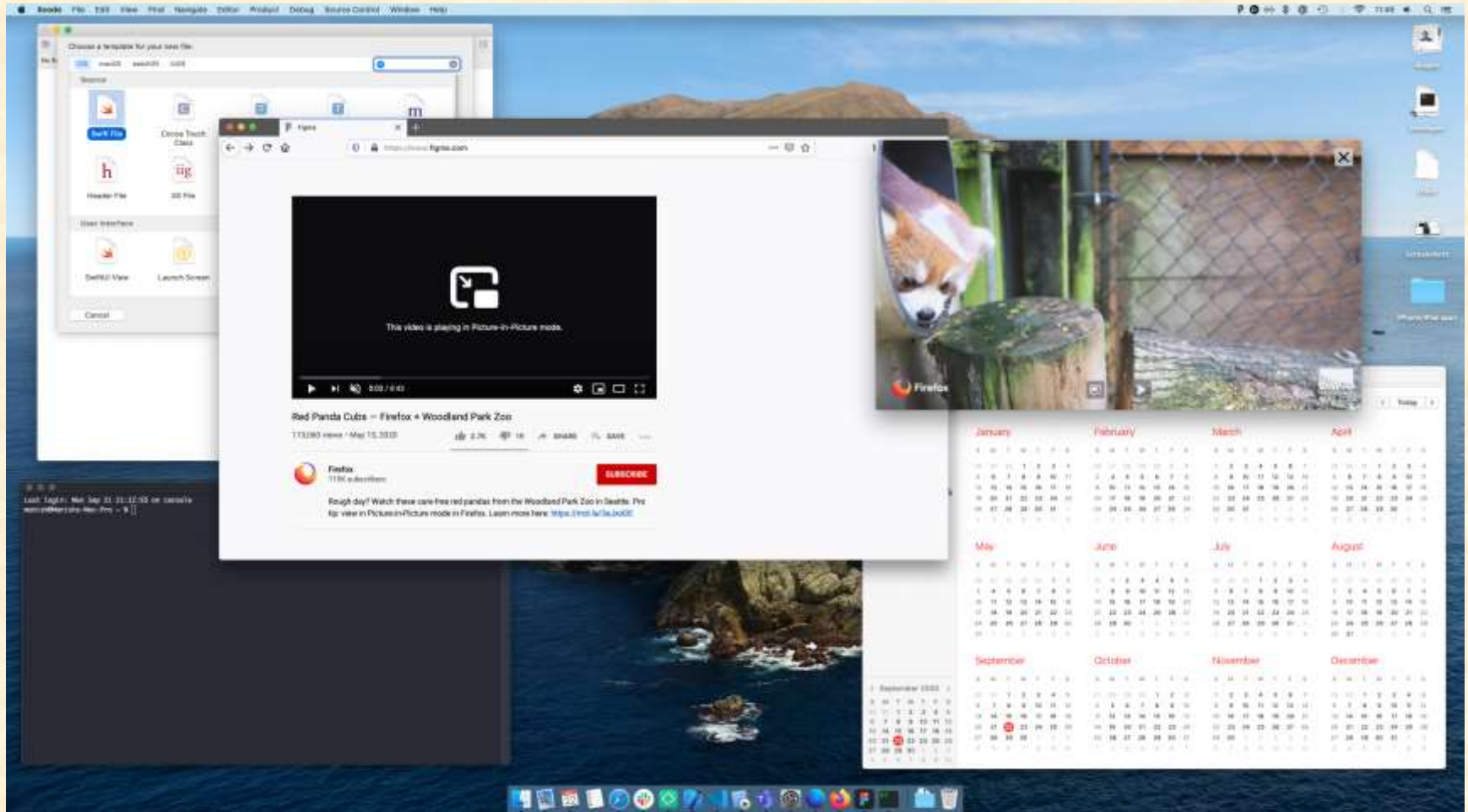- Improve compatibility of Picture-in-Picture on select websites
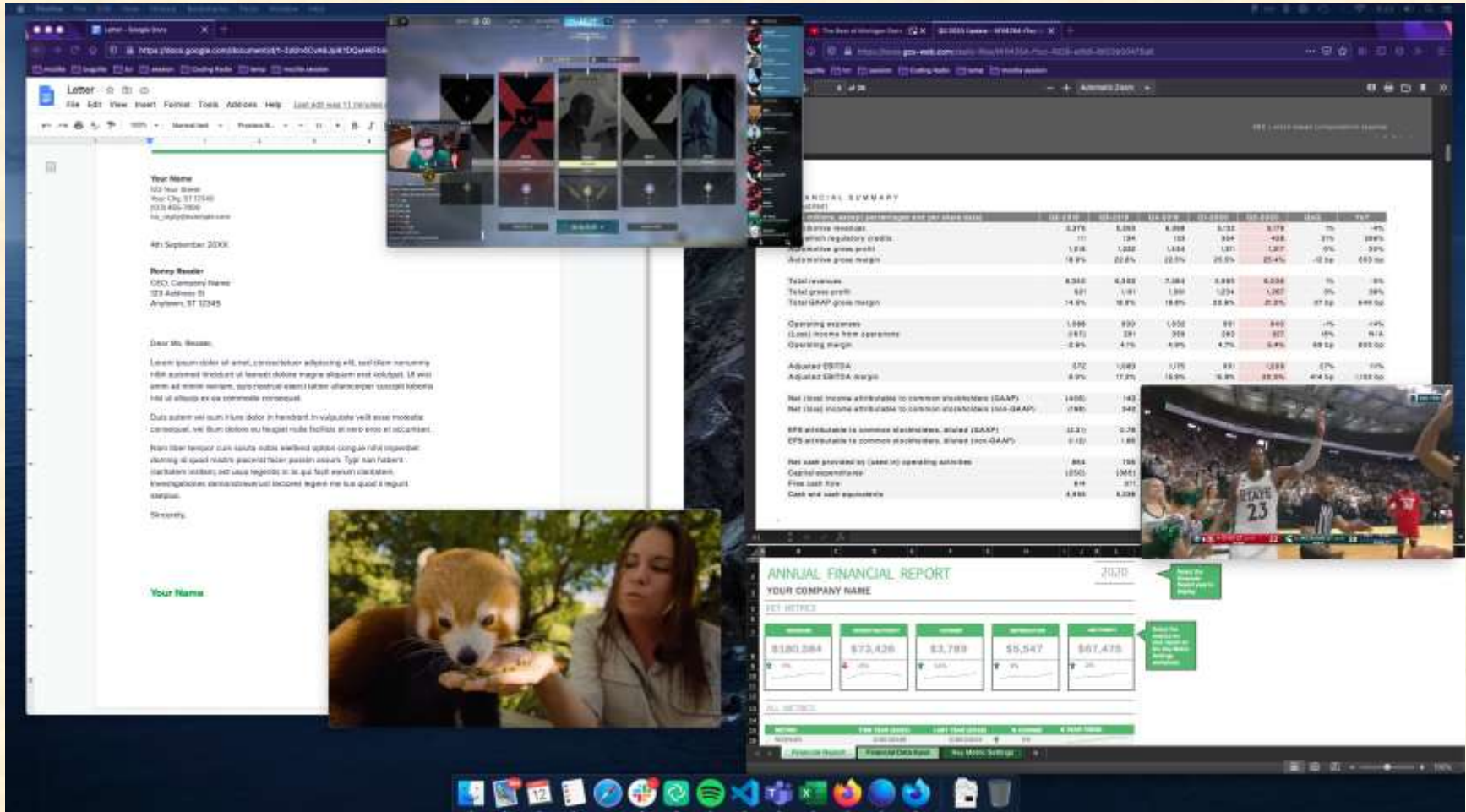
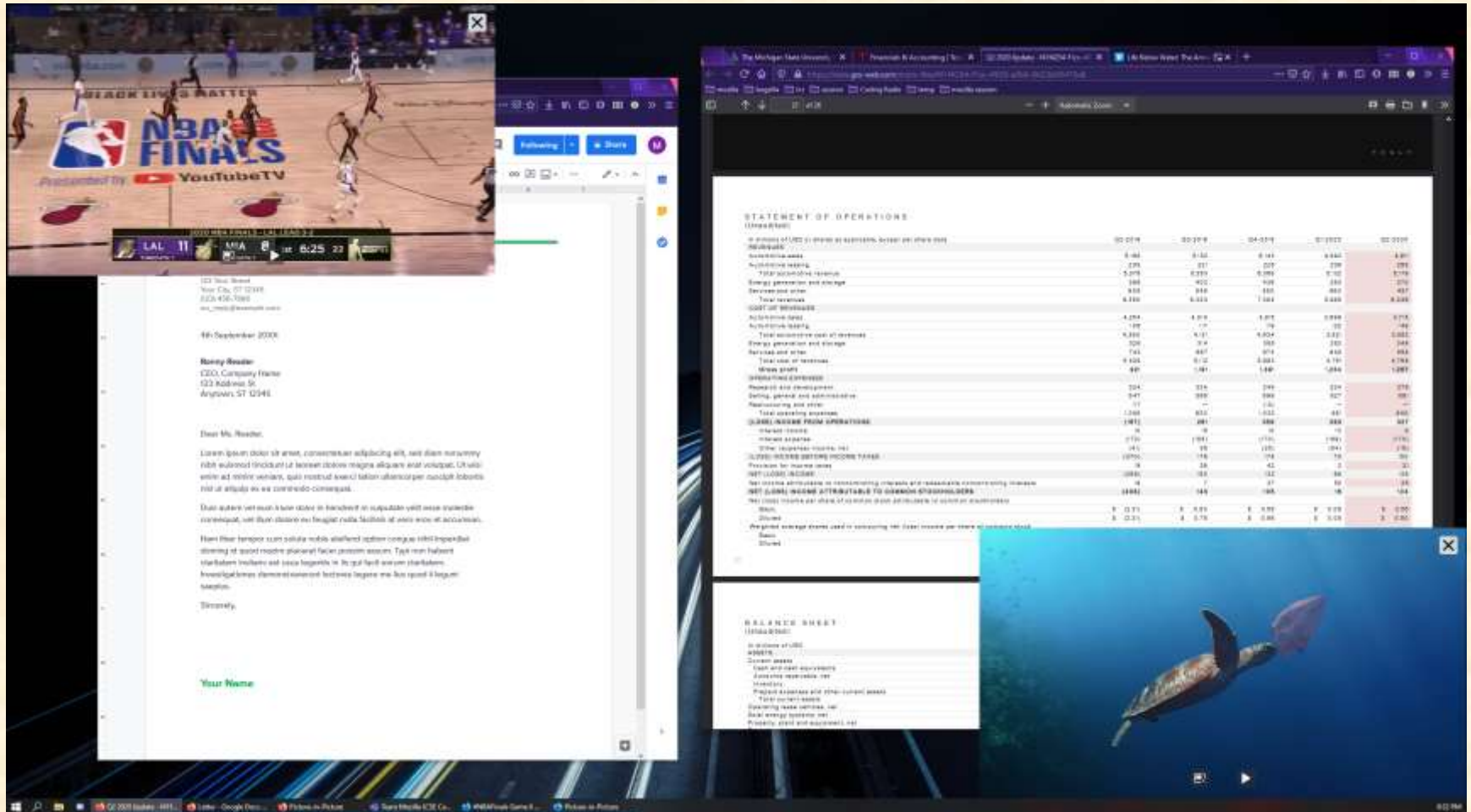# System Architecture

Picture-in-Picture Toggle Button

Picture-in-Picture Player Window

Multiple Picture-in-Picture Windows

Picture-in-Picture Window Snapping

What's left to do?

- Finish support for multiple Picture-in-Picture windows
- Website specific adapters for improved web compatibility
- More bug fixes and improvements
  - Improved multiple monitor support
  - Improved localization support (RTL)
  - Removing old and unused code
  - And more improvements as user suggestions are added

Questions?