# 4estView Group Project 1: Technical Documentation

# By

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# Overview

ForestView approached our team for help on their new SafetyZone proposals. The proposal involves user friendly data storage, a Graphical User Interface, and a packaged executable. The application reads from a .csv file, stores, and searches the employee data for ForestView's client companies into a dictionary. The application also allows users to add individual employees, delete employees, and simulate adding 50 random employees. Our team decided on tkinter for GUI design, and Pylint for packaging the executable. We have designed a website to explain our proposals and finished executables, where visitors of our site are able to download only after agreeing to our User Agreement. The website utilizes html, and Bootstrap 5 snippets by Code Foundry.

# Why 4estView is The Right Choice

Our team, 4estView, provides solutions that prioritize client satisfaction, readability, and cost-effective and safe methods. 4estView consists of a diverse team, leading to a wider range of ideas and solutions. We also offer recommended expansions for solutions. For ForestView, we recommend expanding the application to store the employee database in a file so it is serialized, through pickling for example. Another expansion is to add fields to each employee as needed, such as salary, number of dependents, paid vacation days left, etc.

# The Price of Hosting

At 4estView we strive to provide a solution that can be applicable to any customers’ needs and budget. Amazon Web Services hosts one of the largest cloud web services and they provide a very compelling reason to choose AWS. They also provide a transparent pricing system. The free tier allows 4estview to host a website for 12 months at a measly rate of $0.50/month. This allows for one year of testing and gathering usage statistics without the headache of maintenance. After the first year, AWS also hosts for a “typical price of $1-3 a month,” (Conn).

Amazon S3 is a service that “provides secure, durable, and highly-scalable cloud storage for the objects that make up your static website” (Conn). Utilization of S3 would allow 4estview to store all of the HTML, CSS, and JavaScript files we utilize to host our website. Amazon CloudFront is another example of the benefits when working with AWS. CloudFront allows hosting of a website on a global network of servers. Going with AWS is wise as they have the experience of hosting large servers globally and the infrastructure to back it up. A smaller scale application such as 4estView’s employee management application would incur minute charges.

An alternative to Amazon is Azure by Microsoft. Azure introduces a web hosting plan that “allows you to group and scale sites independently within a subscription” (Bryon). Azure gives an option to modify the scale of the website/application based on the needs of the company. For personal use, Azure allows free hosting with restrictions. Some of these include a maximum storage of 0.50 GB per application. For professional use, ForestView would have a price of $9 per application per month. Though Azure provides an alternative it simply can’t compete with the sheer scale of AWS.

# References

Byron T. (n.d.). *Introducing web hosting plans for Azure Web Sites*. Azure Blog and Updates | Microsoft Azure. Retrieved March 5, 2023, from <https://azure.microsoft.com/en-us/blog/introducing-web-hosting-plans-for-azure-web-sites/>

Conn, M. (2021). *Getting started*. Amazon. Retrieved March 5, 2023, from <https://aws.amazon.com/getting-started/projects/host-static-website/faq/>