

2nd Quarter Project Documentation in Computer Science 3

Members: Carlisle Linus C. Templado, Amaria Villanueva, Tedd Antonni D. Plaza

Why we chose this topic: We chose to address this problem because we think that flooding is an especially prevalent issue not just in the Butuan community, but also in the urban areas of the Philippines.

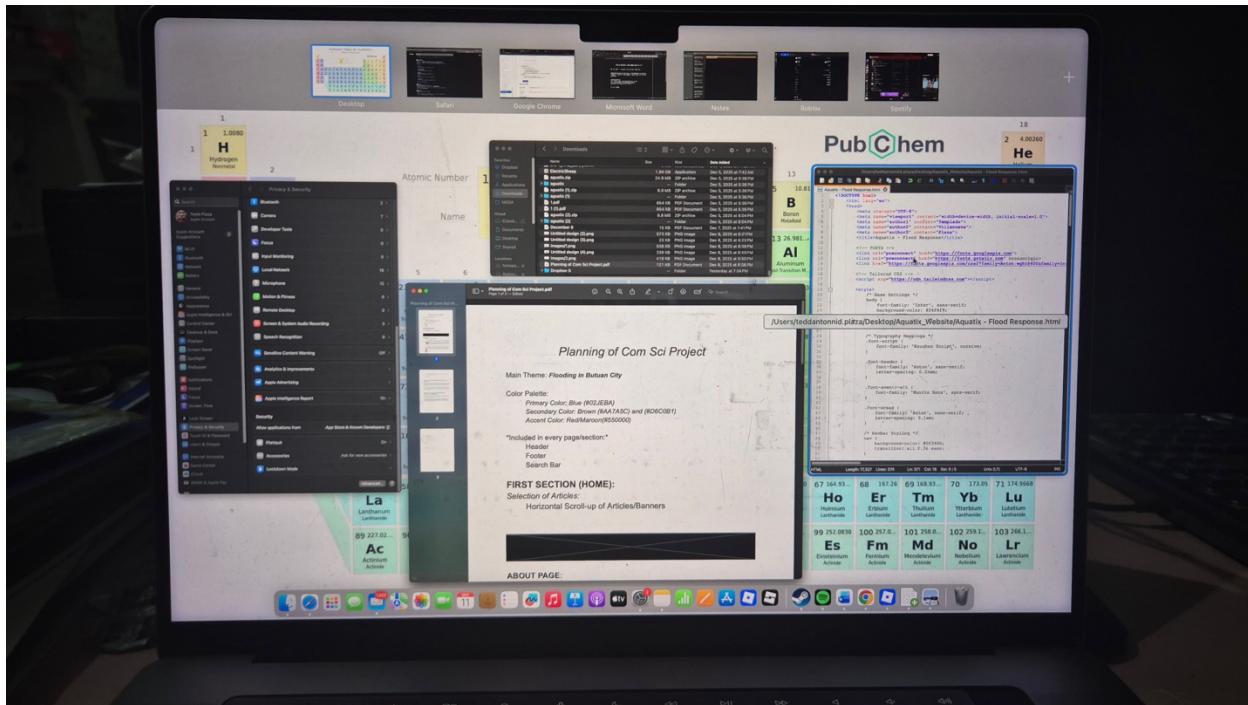
Individual Contributions:

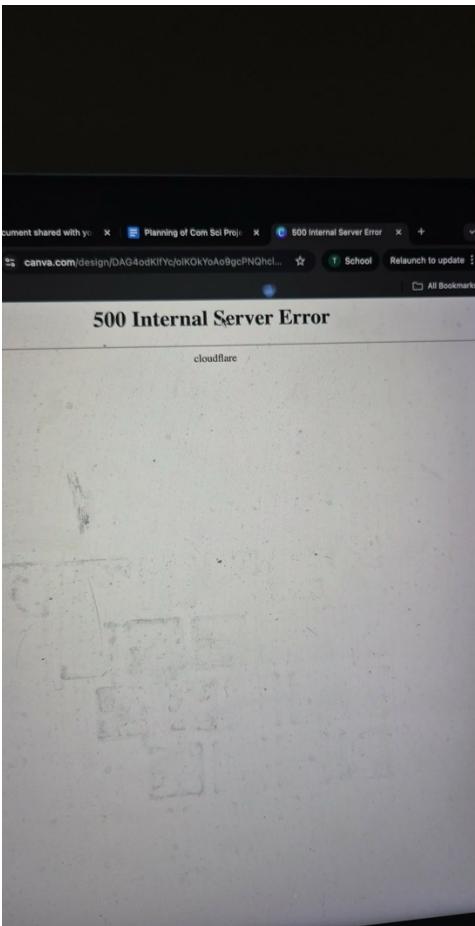
Linus – Planning, Designing, and Creating Website Pages to be Coded

Amaria – Researching Problems to be Solved and Citing Sources

Tedd – Researching Problems to be Solved and Coding

Photo Documentation:





Defenses Must Not Falter

Butuan City can reduce flooding by improving structural defenses such as river dikes, floodwalls, and drainage systems, along with adding pumping stations in low-lying areas. Regular desilting of waterways and maintenance of drainage canals ensure that water flows properly during heavy rainfall.

Nature-based solutions can further support these engineering measures. Retention basins, rainwater harvesting, expanded green spaces, and restored riparian buffers help slow runoff and prevent river swelling. Coordinated efforts from local authorities and communities make these strategies more effective.

"Ang pagpatuman sa Urban Drainage Project sa dakbayan sa Butuan kay aron makabaton ang syudad sa limpyo ug hapsay nga kadalanan ug dili na masinti ang pagbaha sa kadalanan labi na kung sunod-sunod ang pagbundak sa kusog nga ulan."

Around **14,317** individuals were affected during the recent visit of Bagyong "Uwan".

