

Situation: Needed to implement a real-time chat feature to enhance communication and collaboration among users.

Task: Focused on the core requirements for the feature, conducted a rapid analysis of the available technologies and frameworks, and made a decision.

Action: To create feature used a combination of WebSocket technology and a scalable messaging protocol to ensure real-time communication.

Result: They delivered a functional and reliable chat feature within the timeframe. Users could send and receive instant messages seamlessly.

1. Leaders are owners. They think long term and don't sacrifice long-term value for short-term results. They act on behalf of the entire company, beyond just their own team. They never say "that's not my job." (Ownership)

- **Situation** : We have been tasked with a project for COMP 3010, titled "Distributed Computing: Multithreaded Chat Server." While this is not a team project, collaboration and the sharing of ideas among peers are highly encouraged to enhance our learning experience.
- **Task**: We were uncertain about the process of building a thread due to a lack of familiarity with the concept. This topic is associated with another course, operating systems, which was not included in this course. However, I possessed some foundational knowledge regarding it.

- **Action:** In light of the challenges presented by this course, I chose to assist my colleagues by elucidating fundamental concepts, including the functionalities of threads and processes, as well as the distinctions between blocking and locking resources associated with them. They shared their initial code on GitHub CodeSpaces, and I provided constructive feedback for enhancements, alongside implementing modifications to their code as though I were responsible for its development.
- **Results:** In the long term, my goal is to become a successful developer. I embraced the responsibility that comes with ownership, acknowledging that my choices and their consequences are an integral part of the process. This approach allowed me to fully invest myself in these projects, rather than merely leaving comments. Taking ownership of other people's projects has significantly deepened my knowledge, as it required me to engage in thorough research.

2. Leaders are never done learning and always seek to improve themselves. They are curious about new possibilities and act to explore them. (Learn and Be Curious)

- **Situation:** In our COMP 3550 Software Engineering Project, we developed MovieGuide, a platform akin to Netflix. We undertook comprehensive testing protocols that surpassed our previous efforts. Our earlier testing methodologies were inadequate, often limited to assessing only a single file.

- **Task:** We allocated our responsibilities amongst team members strategically. I recognized this as a significant learning opportunity to gain insights into integration testing, given the numerous layers involved in the process. Furthermore, our current curriculum does not include courses on software testing. I chose to undertake this responsibility, understanding that other colleagues could excel in different areas, as we had successfully engaged in similar tasks in our prerequisite courses.
- **Action:** I had the privilege of conducting a series of tests utilizing JUnit and Mockito, which included evaluating database connectivity and querying processes for movie models, as well as assessing user access functionalities. The testing encompassed all layers of the application: Business, Application, Object, and Persistence. The process culminated in significant acceptance testing; during this phase, my mobile device seemingly executed actions autonomously as we initiated the test. I was a bit amazed to see that.
- **Results** We achieved a coverage rate of 96% for the tests associated with our program, resulting in a commendable quality assessment of 94% for that iteration. This experience underscored the fundamental importance of testing in software engineering, which I approached with a mindset of curiosity and a commitment to continuous learning.

3. Leaders listen attentively, speak candidly, and treat others respectfully. They are vocally self-critical, even when doing so is awkward or embarrassing. Leaders do not believe their or their team's body odor smells of perfume. They benchmark themselves and their teams against the best. (Earn Trust)

- **Situation:** In our endeavor to establish the Online Restaurant Business, we opted to utilize React.js, given its widespread adoption among numerous companies during that period.
- **Task:** It is important to emphasize that this project serves as an academic undertaking rather than a personal learning experience. Our primary objective was to acquire a foundational understanding of JavaScript, HTML, CSS, and jQuery. We have been assigned specific instructions that must be followed and requirements that must be fulfilled in order to achieve a satisfactory grade.
- **Action:** We believed we had discovered an innovative approach. Learning React.js is indeed advantageous; however, our understanding of fundamental JavaScript remains insufficient. It is important to note that there was a deficiency in the discussion concerning the instructions specified in the assignment. I felt compelled to intervene and bring attention to this issue, as failure to do so could result in losing a significant portion of marks. I am uncertain how my peers processed this information, but it appeared they were not particularly impressed by my observation. The primary focus should have remained on the assignment instructions.
- **Results:** By the conclusion of our last iteration, we effectively safeguarded ourselves from a substantial mark loss of 15%. Those who employed Angular, React, or other advanced libraries would have experienced this loss. This is particularly significant, as I believe that the project constitutes 70% of our overall grade, indicating that we could potentially be evaluated on a scale of 55%

4. Leaders operate at all levels, stay connected to the details, audit frequently, and are skeptical when metrics and anecdotes differ. No task is beneath them.(Dive Deep)

- **Situation:** In the context of my COMP 3020 Human-Computer Interaction project, we developed an interactive component that features slideable images showcasing various restaurants. This functionality allows users to seamlessly swipe through images and select a restaurant to access its complete food menu.
- **Task:** In our group of four, we were tasked with developing a website utilizing HTML, CSS, JavaScript, and jQuery, while conducting research on user experience. I ensured that our team members arrived at meetings punctually and coordinated the integration of all web pages, achieving this with only 6 hours remaining before the submission deadline. By clicking on the McDonald's image, users were able to view all food items displayed in organized square boxes. I am curious about the functionality that would occur if users were to click on the images of other restaurants, as we did not implement any features for those in the prototype.
- **Action:** Regrettably, the individual who developed the page featuring the slidable restaurant images was unable to attend the meeting; however, they did provide the code via email. I found it necessary to engage with the unfamiliar HTML code created by another person. It is not ideal to require users or markers to continuously slide in order to locate the McDonald's image. Moreover, it is impractical to incorporate all restaurant images function fully implemented solely for the purpose of a prototype. Through some experimentation with the `` tag, I identified a viable solution. I implemented the `

and at the conclusion of the sequence. This small adjustment proved to be straightforward.

- **Results:** Regardless of the option you select, you will be redirected to the designated McDonald's webpage. While you may choose to navigate to Wendy's, Dairy Queen, or the visually appealing image adjacent to them, your ultimate destination remains the fully developed McDonald's page.

5. Leaders focus on the key inputs for their business and deliver them with the right quality and in a timely fashion. Despite setbacks, they rise to the occasion and never settle. (Deliver Results)

- **Situation:** The present project is a personal initiative rather than an academic assignment. I have developed an e-commerce platform utilizing Vue.js, which is currently in its beta phase of development, in order to learn Vue.js by undertaking a course on LinkedIn to enhance my professional skills.
- **Task:** I sought user feedback and required beta testers for my project. Consequently, I enlisted the support of my classmates to conduct user testing from their respective locations. They effectively served as beta testers for this initiative.

- **Action:** I instructed the team to document their findings and send them to me, as this is an area where attention to detail is crucial from every person. So, writing out the information makes it difficult to overlook important elements because every other peers will see it as if you were presenting it to a focus group, you have to think twice. From the received feedback, I then adjusted the size of the images and changed the background color to white to enhance the vibrancy of the items displayed on the web pages. I ensured that the button is greyed out and rendered unclickable once a user is signed in and checked other errors like server uptime, home button etc
- **Result:** Enhanced user interface and user experience (UI/UX) have led to increased engagement with my website. Users are exhibiting a heightened level of interest in the content provided, which I could see on the dashboard.