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Description automatically generated**Project reflection and peer review**

**Note: This form will be kept private without being disclosed to team members.**

**Project Title: <Compared Australia and USA Unemployment Range (2020–2024) Across OECD>**

**Group Name: <1F>**

**Team Member List: <** **Jompot Thongdee, Aung Thiha>**

Project reflection

*The purpose of this project was to build an interactive data visualisation website that compares the unemployment rates of Australia and the United States from 2020 to 2024 using OECD datasets. By analysing the impact of global events, such as the COVID-19 pandemic, our aim was to present meaningful trends and fluctuations in unemployment data, helping users identify key changes and possible recovery patterns.*

*Our team implemented this project using D3.js, a JavaScript library for data-driven document manipulation. With this tool, we were able to create dynamic, responsive visualisations that convey insights to users through a clean, user-friendly interface. Our target audience includes policymakers, educators, and students who are interested in understanding how both countries responded to economic challenges.*

*Learning Process*

*My involvement in the project was extensive and deeply collaborative. I took equal responsibility for the coding, documentation, and planning phases.*

*Technical skills Gained: Throughout the project, I enhanced my understanding of data wrangling, JavaScript programming, and D3.js syntax. I learned how to work with CSV files from the OECD website, clean and process the data for use in visualisations, and display this data in the form of interactive Bars graphs. I also gained experience managing GitHub repositories and resolving common version control issues.*

*Communication and Collaboration: Our team held weekly meetings via Discord and updated each other regularly. We set up a shared folder and used collaborative tools such as Word Docs and GitHub to track progress and manage tasks. This process helped us build strong communication habits and supported our productivity throughout the project.*

*Contributions*

*Technical Development: I co-developed the D3.js components alongside Aung. We often worked on different modules and then merged our work during weekly sync-ups. I focused on improving the tooltip functionality, scaling the axes correctly, and ensuring the data dynamically updated based on country selection.*

*Process Book and Standup Reports: I actively contributed to drafting and editing our weekly standup reflections and the final process book. I ensured that each milestone was well-documented, including screenshots of our code, snapshots of interim visualizations, and notes on blockers we encountered.*

*Issue Resolution: One of the technical challenges we faced was a GitHub permissions issue that prevented me from pushing changes to the repository. I troubleshooted the issue by consulting GitHub documentation and resolving the permissions through the GitHub Website, and some mercury issue ensuring continuity of the workstream.*

*Research and Planning: I reviewed economic reports and OECD datasets to understand unemployment trends. I also researched UI design principles to enhance the layout of the dashboard and make it user-friendly.*

*Team Engagement: I consistently attended meetings and contributed to the direction of the project. When we faced decision points, such as whether to use bar or line charts, I facilitated discussion by listing pros and cons, helping the team make informed choices.*

*Challenges Faced*

*We encountered several challenges, especially in the early stages. One key issue was a GitHub permission error that initially prevented me from pushing code to the main branch. I resolved it by coordinating with my teammate and updating the repository settings. We also struggled with aligning D3.js elements precisely and ensuring cross-browser compatibility for our site. Overcoming these problems improved our teamwork and helped me build confidence in debugging and problem-solving in real-time.*

*Time Management: Balancing academic and personal commitments was challenging, especially closer to submission dates. We overcame this by frontloading tasks during the initial weeks and staying in constant communication to avoid last-minute surprises.*

*Team Collaboration*

*Our group maintained strong collaboration throughout the project. We communicated using Discord and divided responsibilities based on each member's strengths. Our workflow was well-organised, and we kept each other accountable through weekly goals and progress reviews.*

*One of the key highlights was our ability to adapt to unexpected problems. When our charts did not render correctly due to overlapping elements, both of us worked together to identify the bug and improve the D3.js rendering. This flexibility and commitment to teamwork helped us stay on track.*

*Additionally, we respected each other’s working styles and contributed equally to the deliverables. For example, when I focused on debugging JavaScript errors, my partner reviewed documentation and drafted textual explanations. This complementary approach allowed us to cover both technical and written components efficiently. We held weekly meetings on Discord where we discussed progress, reassigned tasks when necessary, and clarified doubts about the project scope. We also posted updates and screenshots regularly in our shared channel, which helped us stay aligned. Despite having different personal schedules and commitments, we ensured consistent communication and successfully met all deadlines.*

Use the instructions in the end to fill in the scores (0-5) for each category A to G:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Team Member** | **A** | **B** | **C** | **D** | **E** | **F** | **G** | ***Total*** |
| *Jompot Thongdee* | 5 | 5 | 5 | 5 | 5 | 5 | 5 | ***35*** |
| *Aung Thiha* | 5 | 5 | 5 | 5 | 5 | 5 | 5 | ***35*** |

**<Add new rows if needed.>**

Detailed Comments:

*You must demonstrate that you and your team members have met the learning outcomes for this unit. Therefore, your comment should reflect on each team member's learning process and provide evidence of their contributions to the project.*

|  |  |
| --- | --- |
| **Team member** | **Comments** |
| *Jompot Thongdee* | *Participated actively in all weekly standups and contributed detailed updates.*  *Wrote and edited the Process Book, including visualisation purpose, data description, design rationale, and user experience considerations.*  *Developed D3.js code for the Bar chart that compares unemployment trends between Australia and the United States from 2020 to 2024.*  *Resolved GitHub issues related to permissions and branching and maintained the main project repository.*  *Brainstormed ideas for visual structure, colour accessibility, interaction design, and data storytelling approaches.*  *Helped test responsiveness and debug layout issues on different devices and browsers, including Chrome, Firefox, and Safari.*  *Collaborated in documenting the data transformation pipeline and ensuring our visualisation aligned with accessibility standards.* |
| *Aung Thiha* | Set up the initial GitHub repository and Discord channel for our group, establishing a solid foundation for communication and collaboration.  Cleaned and prepared OECD unemployment datasets for visualisation, including extracting specific years, countries, and filtering only relevant metrics.  Helped design and code D3.js elements, ensuring chart interactivity, smooth transitions, and proper axis formatting.  Reviewed each submission for alignment with assignment requirements, including technical criteria such as interactivity and responsiveness.  Attended all team meetings and contributed to idea generation and planning for both the process book and visual design. |

**<Add new rows if needed.>**

**You will evaluate each team member, including yourself, based on the following categories. Assign a score between 0 and 5 for each category:**

1. **Communication Skills**
2. – Blunt, discourteous, does not listen, antagonistic, distant, aloof.
3. – Sometime tactless. Approachable and friendly once known by others.
4. – Agreeable and pleasant. Warm, friendly, sociable and listens.
5. – Always very polite and willing to help. Very sociable and outgoing. Listens and understands.
6. – Courteous and very pleasant. Excellent at establishing good will.
7. – Inspiring to others. Artful listener. Really understands.

1. **Initiative**
2. – Displays no self starting characteristics. Acts without purpose.
3. – Puts forth little effort. Requires prodding – sets no speed records.
4. – Puts in minimal effort to get task completed.
5. – Strives hard. Desire to achieve.
6. – High desire to achieve. Always puts in a solid days work.
7. – Sets high goals. Self starter with high motivation. Constantly goes beyond call of duty.

1. **Efficiency**

0 – Work is invariably late.

1 – Work occasionally completed on schedule.

2 – Work usually complete on schedule. Some contribution to minor problem solving.

3 – Work always complete on schedule.

4 – Work complete. Consistent in defining and resolving major problems.

5 – Work invariably done ahead of schedule. Imaginative. Can be counted on to make major contributions.

1. **Group Meeting Attendance**
2. – Never attended any meetings. Showed no interest.
3. – Occasionally attended. Would commit and then not show.
4. – Sometimes uncooperative in planning schedule. Hard to get in touch with.
5. – Would attend. Usually late.
6. – Could be counted on to attend.
7. – Never missed a meeting. Always on time.

1. **Attitude and Enthusiasm**
2. – Poor disposition, uninvolved, indifferent.
3. – Unenthusiastic, biased.
4. – Half-hearted.
5. – Positive demeanour.
6. – Positive attitude and spirited.
7. – Exuberant and eager. Positive influence. Inspiring to others. Team builder.

1. **Effort**
2. – Puts forth no effort. Expects others to carry the load.
3. – Puts forth some effort.
4. – Displays enough effort to get by.
5. – Solid contributions.
6. – Strives very hard. Energetic.
7. – Self-starter. Consistently goes beyond call of duty.
8. **Dependability**
9. – Uninvolved. Unreliable.
10. – Unsteady, but tries somewhat.
11. – Occasionally would come through. Inconsistent.
12. – Needs some improvement. Suitable.
13. – Very trustworthy. Could be counted on to take responsibility.
14. – Always responsible. Kept the group together and in the right direction. Steady influence.

Winger-aunty, S. 1990. University of Wisconsin-Stout Modified by Pheroza Daruwalla and Ian Knowd, 1994.