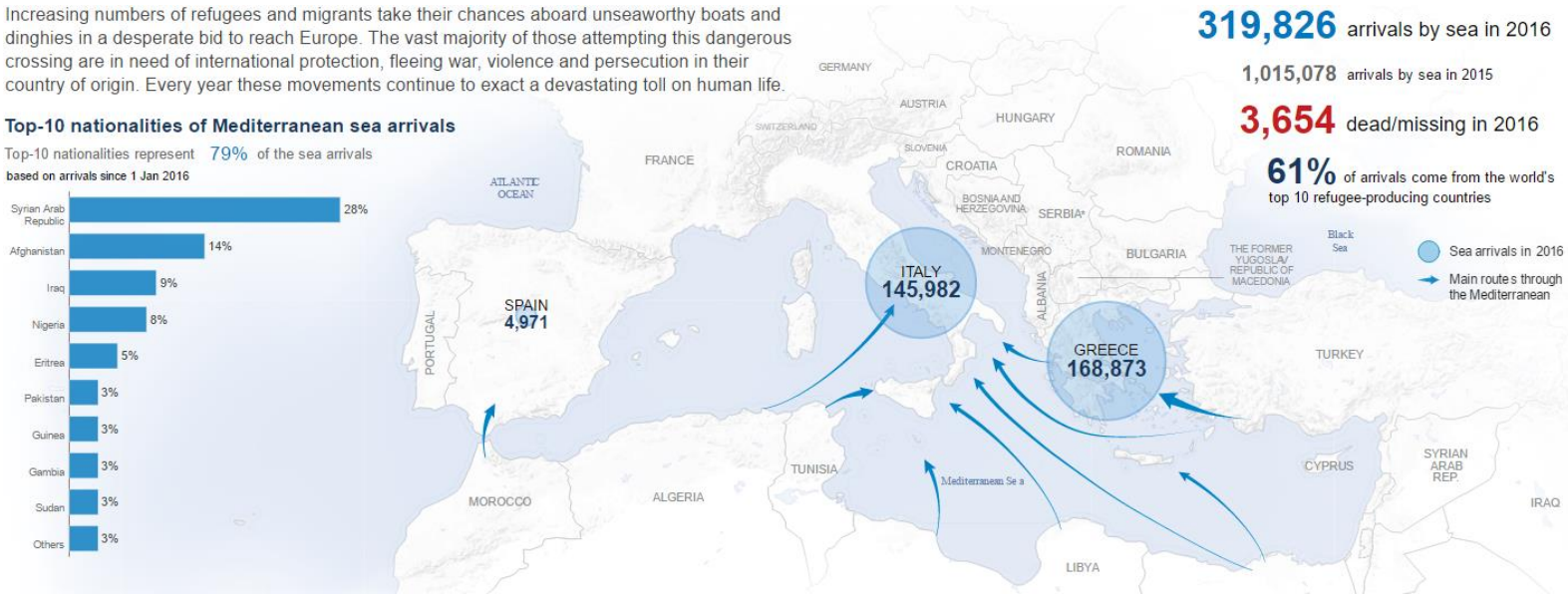
Team 1: The Weather System

McMaster Engineering Competition, 2016

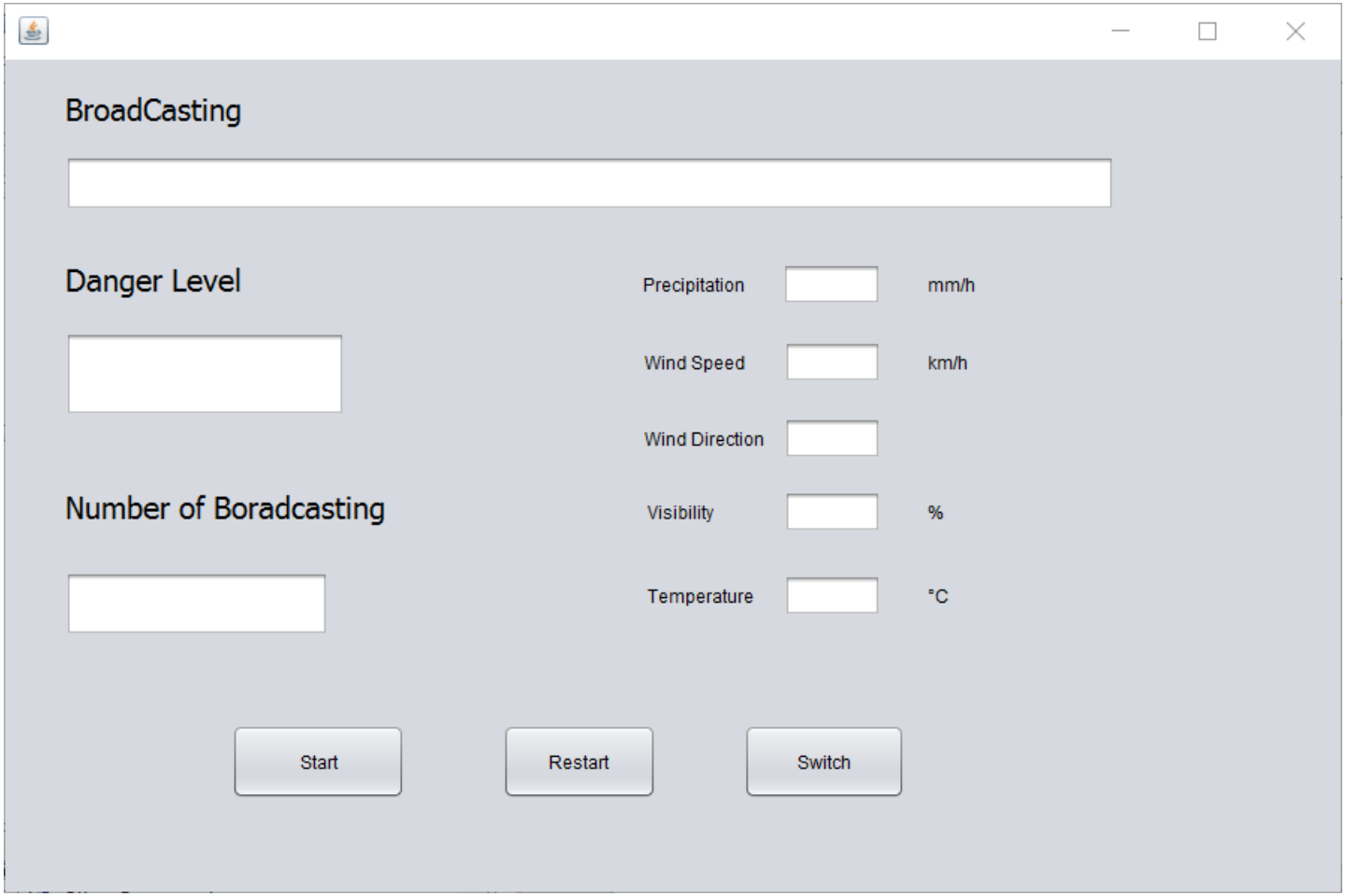
Context

- In 2016, 319,829 refugees traveled to foreign countries by sea.
- However, 3654 refugees **died** or went **missing** while at sea.

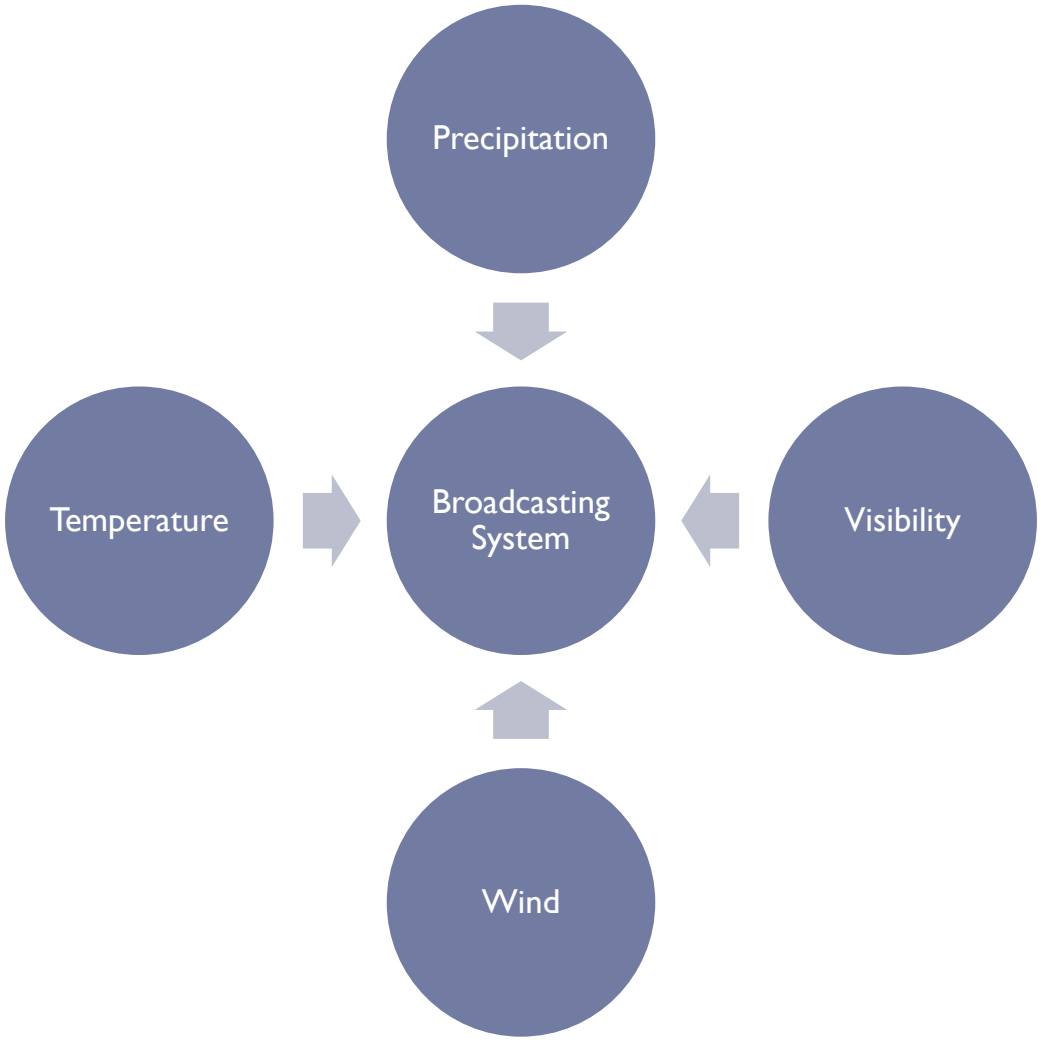


- There HAS to be a safer way for refugees to navigate the dangers of the open ocean.

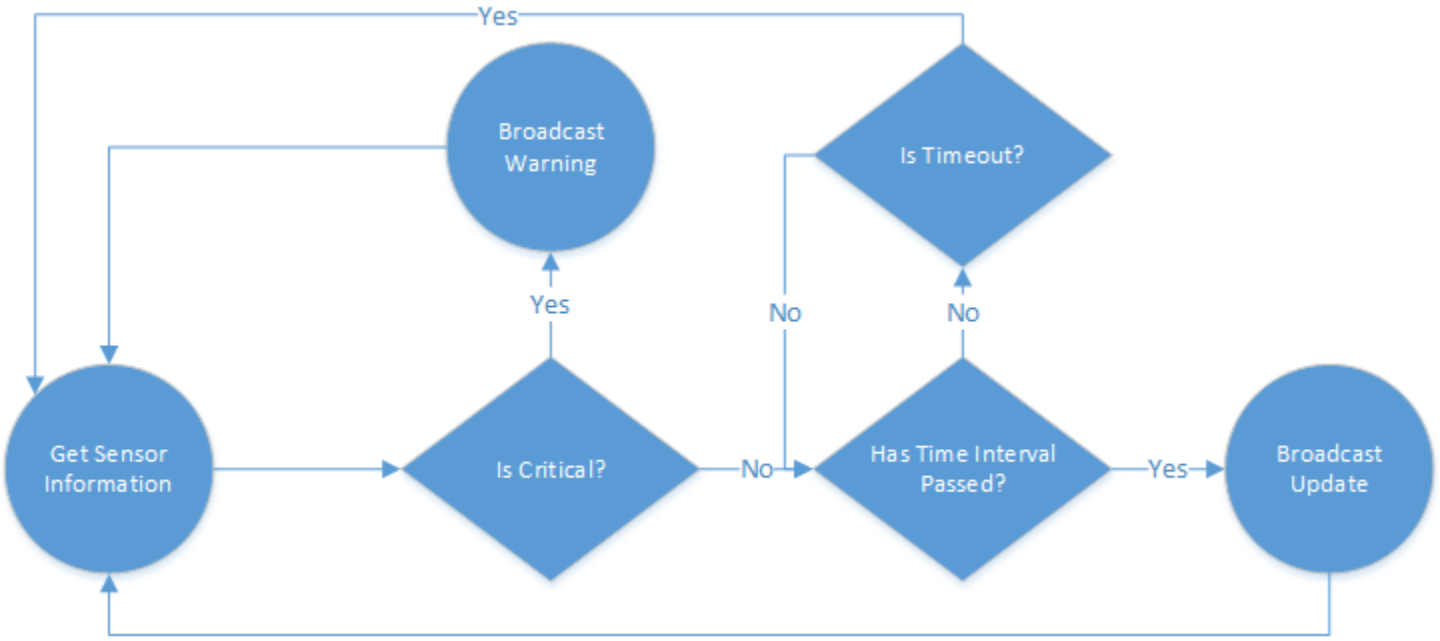
Introducing The Weather System



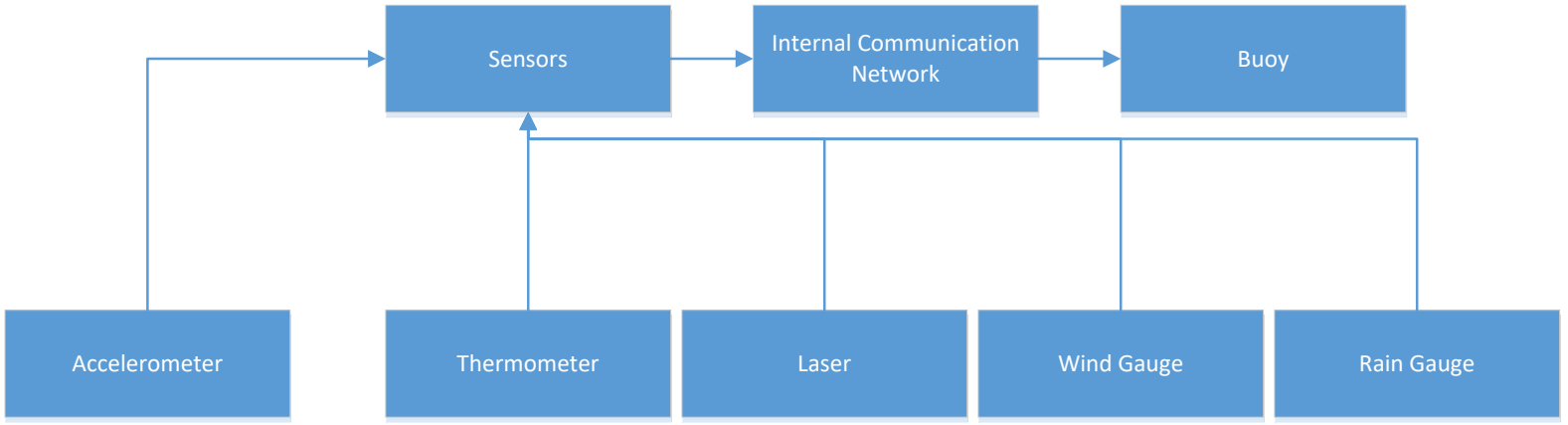
What Does It Do?



What Does It Do (Part 2)?



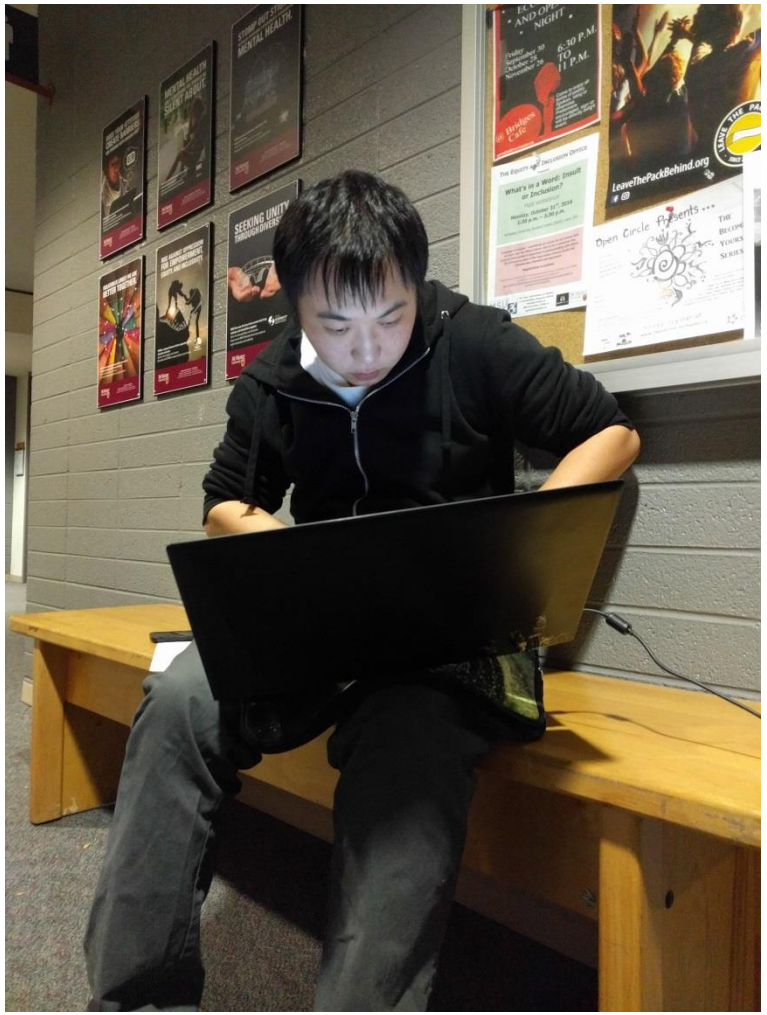
How Was It Done?



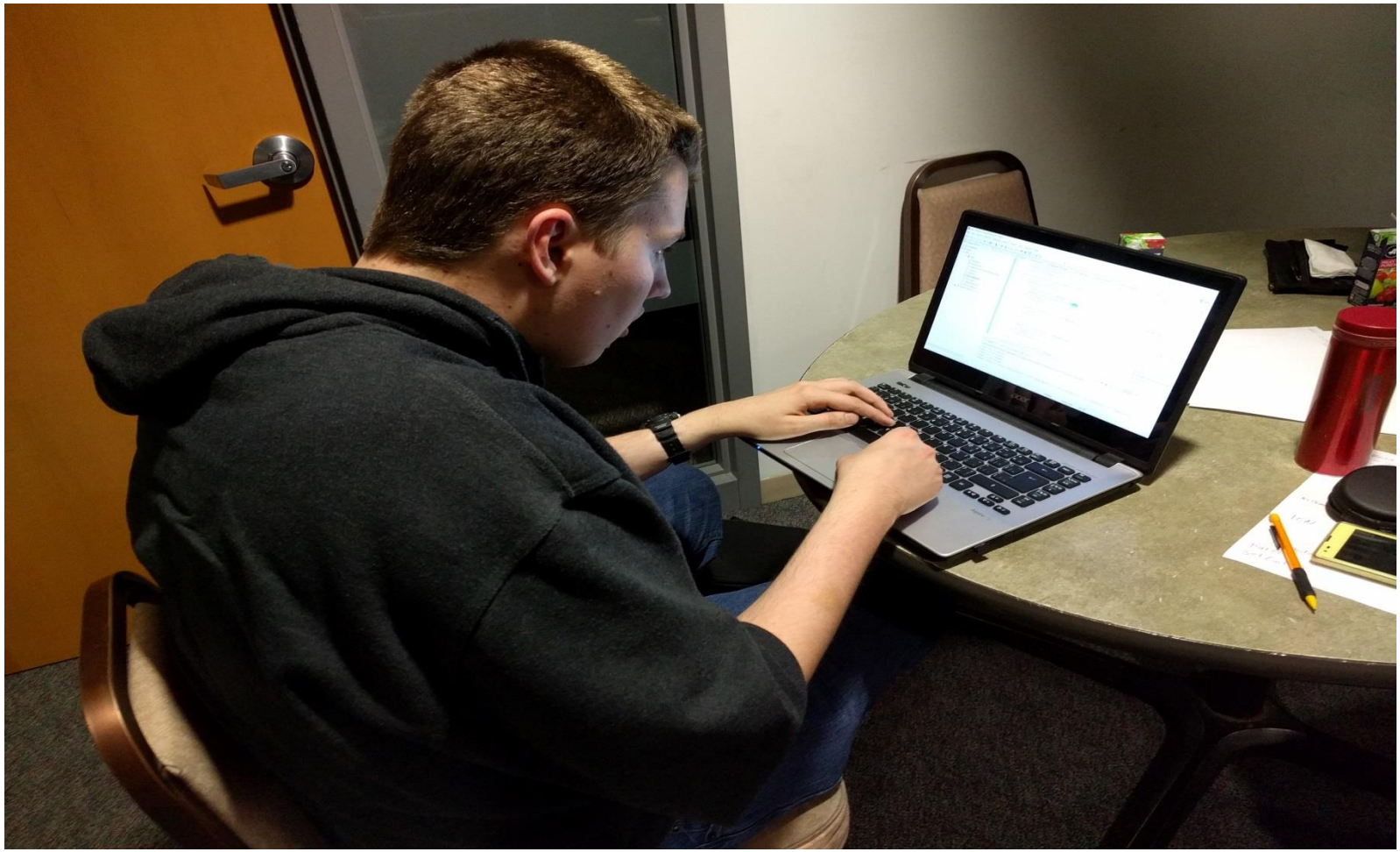
- **Sensors**: Receive information from external environment
- **Internal Communication Network**: Mediates communication between internal components
- **Buoy:** Determines criticality and broadcasts messages

Testing the System

- Combination of black box and white box testing.
- JUnit tests ensured full code coverage.
- Thorough integration testing at boundary conditions.

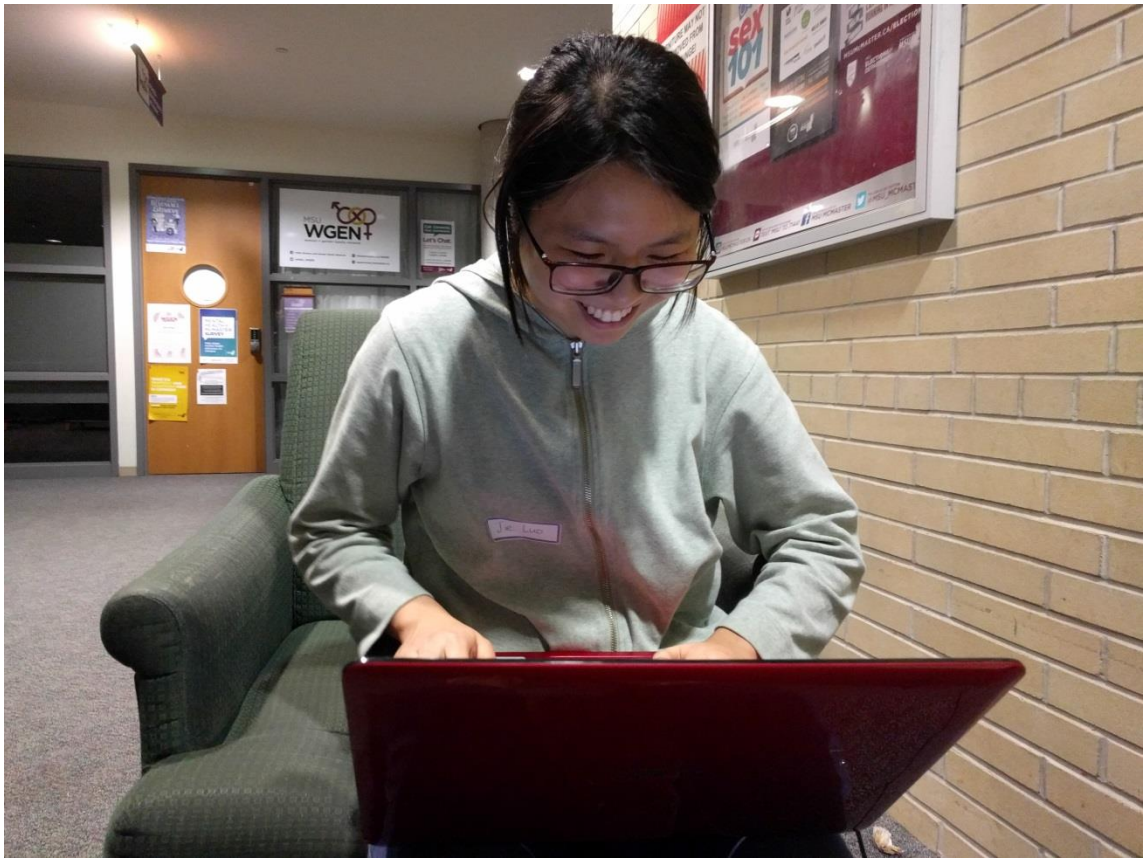


Let's See a Demo!



References

- http://data.unhcr.org/mediterranean/regional.php



Thank You For Your Time!