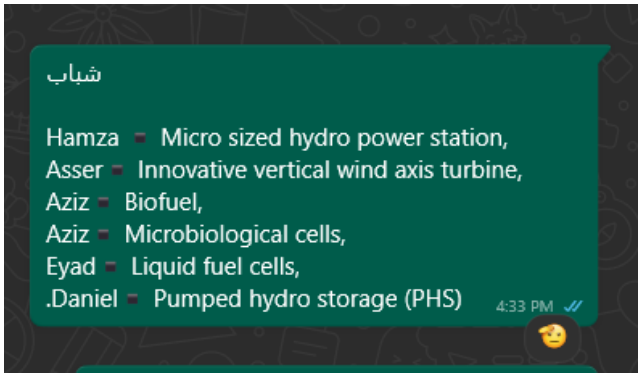
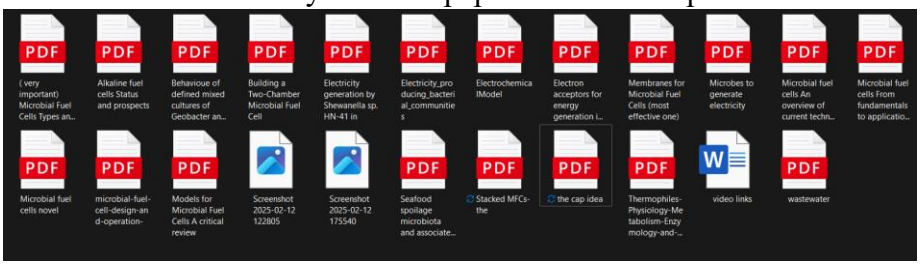
Week one:

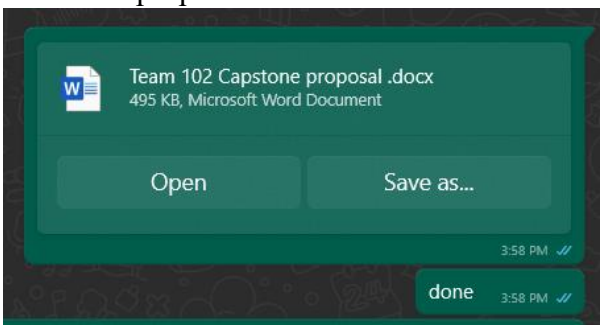
- Distributed the tasks among the team members and was responsible for researching two ideas



- Collected and read many research papers about the topic



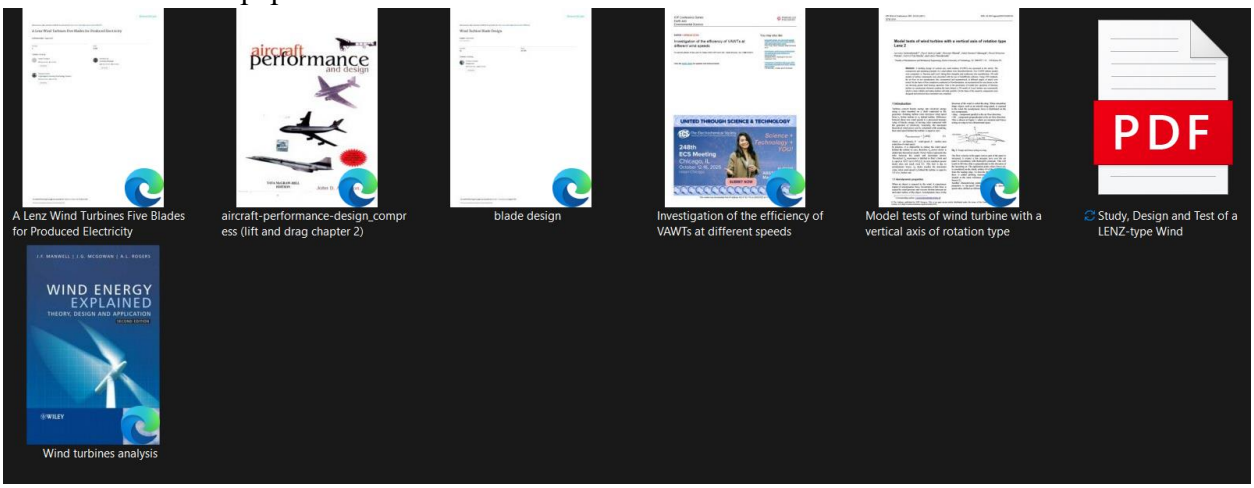
- Wrote the proposal of the stacked MFC cell design (which was rejected)



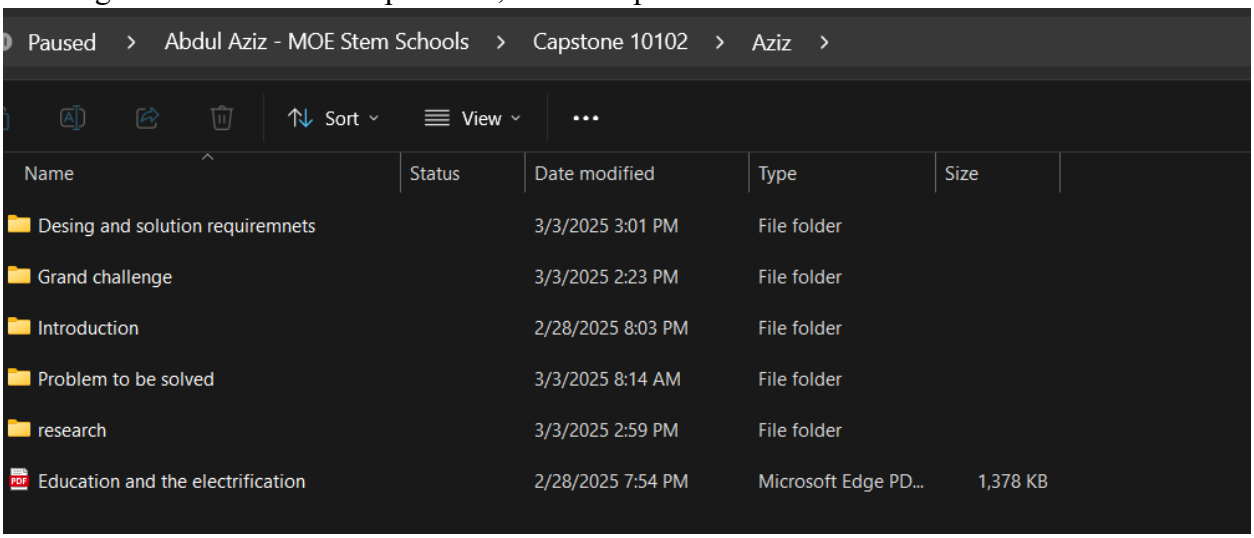
- Distributed the Grand challenges
- Once the idea was rejected, started to research others

Week Two:

- I started writing the grands along with researching the ideas.
- I found a VAWT design named Harmony which no one took it at the time https://harmonyturbines.com/
- Started researching about it more and figured out that it has very complex construction, especially the part where the blades close itself
- Discovered the Lenz turbine, a type which merges VAWTs advantages together, and collected research papers about it

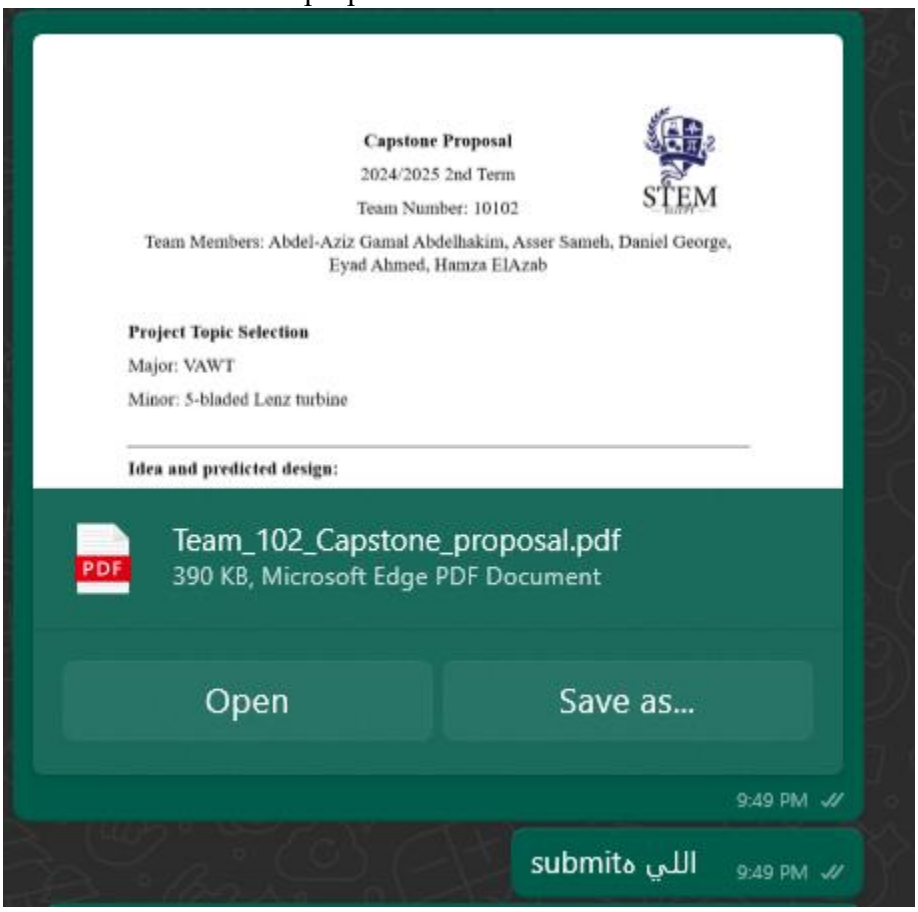


- Wrote the problem to be solved, 3 positive and 3 negative consequences, the grand challenge and the intro of the portfolio, which I uploaded to the team's drive

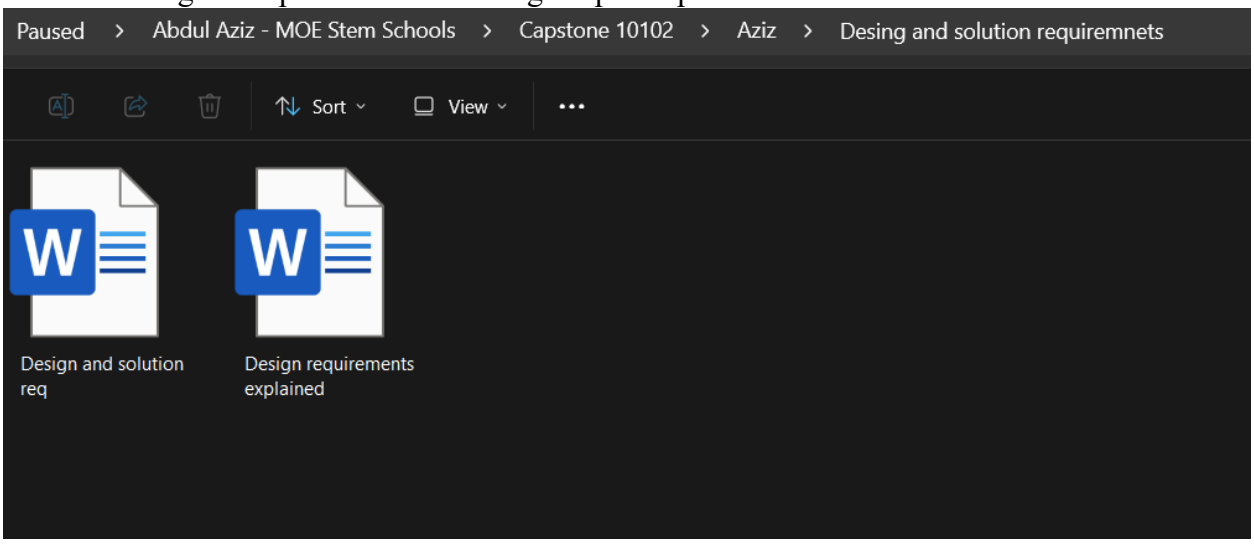


Week three:

- Wrote the Lenz VAWT proposal

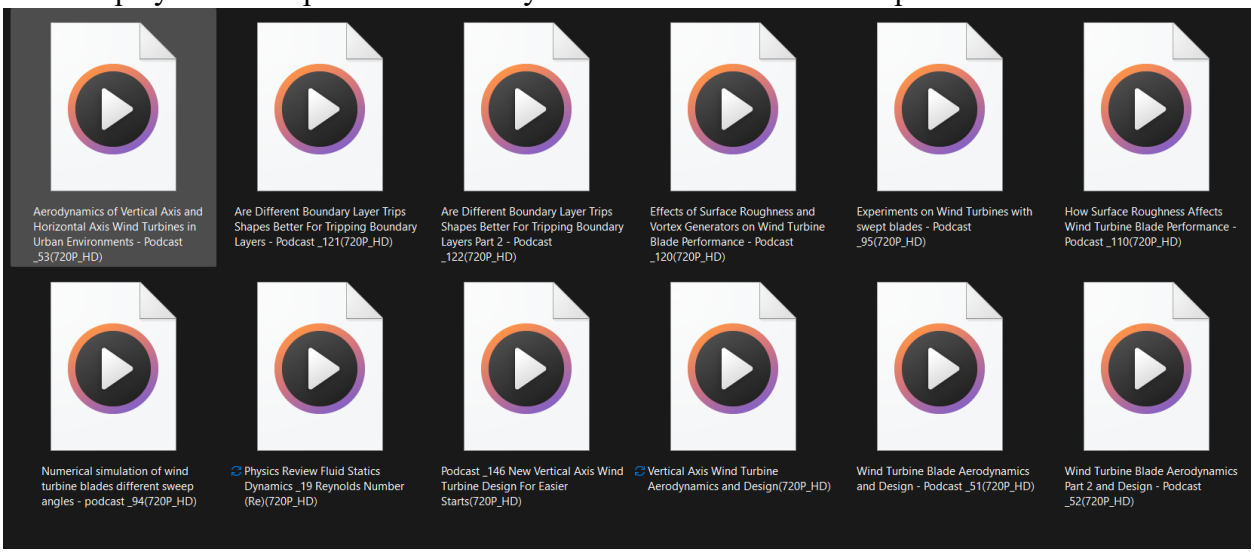


- Searched for more about the scientific base of the turbine, along with the forces that can be used to optimize it
- Distributed chapter 2 among the team (in person)
- Started writing in chapter 2 while revising chapter 1 parts

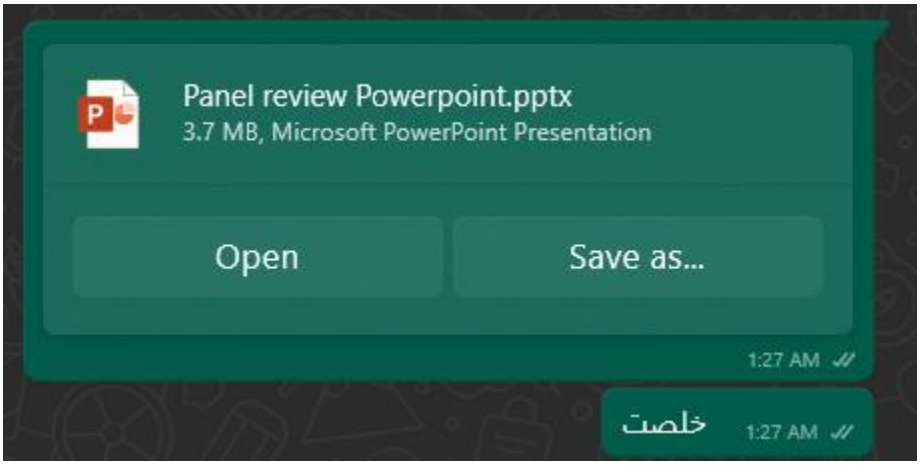


Week four:

- Found a playlist that explained the aerodynamics as a scientific concept



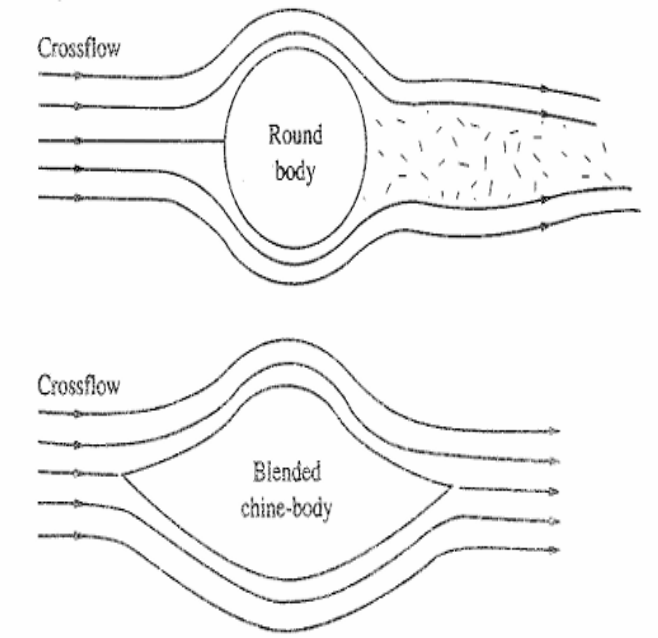
- Started studying the scientific base more heavily and fished the presentation of the panel review content wise



- Revised some parts of the previous chapters

Week 5:

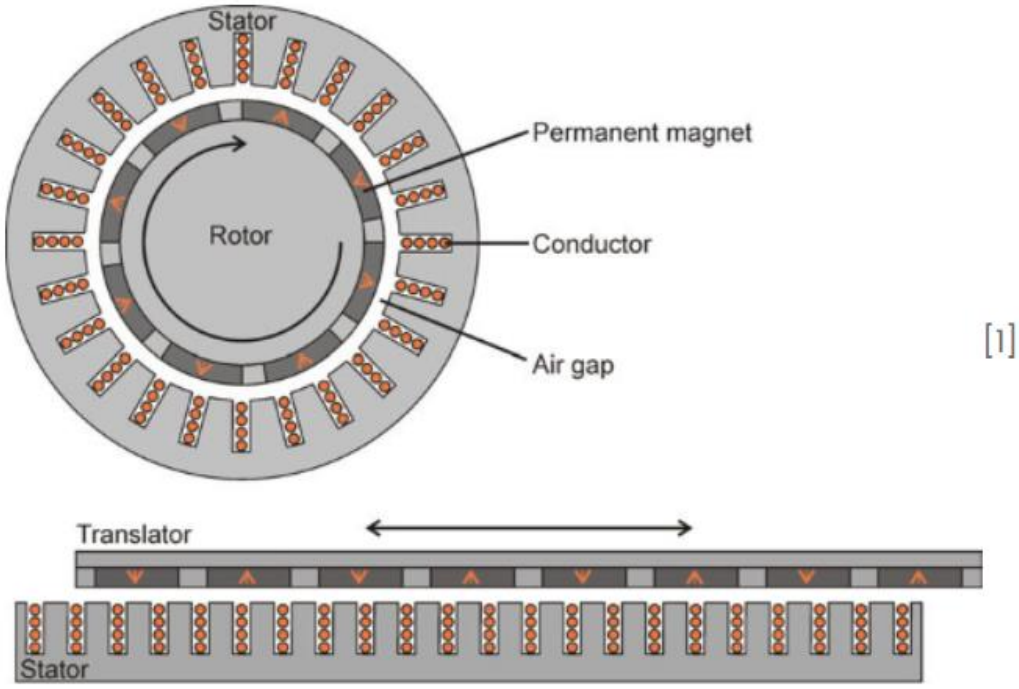
- Dived more into the aerodynamics of aeroplanes, and enhanced the design, based on this book



- Made some enhancements to the panel review
- Decided the prototype design measurements

Week 6:

- We all have started to search for the generator
- A type of generator called the permanent magnet generator was found.



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- Further understanding of the generator will be needed.