**Research Planning for Dissertation (7000-9000 words).**

* **Title of dissertation:**
* **Abstract(300 words)**
* **Acknowledgements(200 words)**
* **Introduction(1500-2000 words):**
  + **What is your research question/purpose of designing this application.**
    - How can we provide quick access to information on different types of diabetes medications through a web-based application using a public dataset.
  + **What are your aims?**
    - Create a web-based application that is accessible and easy to use.
    - Design an application that is user friendly, anyone will be able to utilize the application regardless of their level of knowledge.
    - Create an application that has accurate information on diabetes medications, this includes dosage, potential side effects and interactions with other medications.
    - Help individuals have better management of their diabetes, especially if they don’t have regular access to a healthcare provider.
  + **What are your Objectives?**
    - Create an application that is straightforward, the user should be able to navigate the application and search medication names or their medication code with ease.
    - Creating an application that can be accessed by any web browser, the user won’t need to download an application on their mobile device.
    - Using a public API that is regularly being updated with accurate information, so that users can be sure that the information they are viewing is correct.
    - Creating an application that allows users to look up detailed information on the current drugs they are taking so that they understand the dosage/usage information, which will help avoid improper management of their diabetes.

* + **What technologies are you using?**
    - Once you have your design part done, you can answer this part.
  + **What are the legal, social, ethical, professional considerations regarding your research question?**
    - g
  + **Background**
    - Why is this a suitable project for an MSc Project?
    - You need to provide the reader with the relevant contextual information necessary to understand your work.
    - This is where you can include a technology/literature review.
    - Conclude this section with a summary of the findings from the background investigation and how that justifies the work undertaken in your project.
* **Report Overview (300-500 words)**
  + Provide a roadmap of the report, describe the upcoming sections in order.
* **Literature of Technology Review(1500-2000 words)**
  + **This is where you will be researching and reviewing the technology you will be using to build your application.**
  + **Describe why you decided on the programming languages that you have chosen.**
  + **Design/Methodology**
    - This is where you describe to the reader how you plan on undertaking this project?
      * What are the steps taken to create this application?
        + Provide a design on how you would like the application to look like.
        + Provide what technologies will be used and what exactly will these technologies do (ex, using javascript for the backend and html/css for the front end)
      * Also provide alternative approaches for this project
        + Document any alternative approaches you could have taken to complete this project.

This includes talking about other technology choices you could have made, design choices etc.

Discuss why you chose the route you took instead of the alternative approach.

* **Implementation/Results (1000-1500 words).**
  + **This is where you describe to the reader what happened/what was the outcome of the project?**
    - You can talk about how well your code worked, what didn’t work
    - Describe how good the final deliverable is. Although the project doesn’t have to be perfect, you must talk about the strengths and weaknesses of your final project.
    - Reflect on your aims and objectives, do you feel like your project achieved these? If not, talk about what could have been differently to achieves those aims and objectives.
  + **Related work**
    - Talk about who else has done something similar and how does my work compare?
      * Basically, evaluate your work against that of others. How good is your project compared to theirs?
      * You should be able to understand how well you have achieved your goals in relation to others, while understanding the time limitations you had.
* **Conclusion (750-1000 words)**
  + **Summary of the project**
    - Highlight your key outputs/discoveries
  + **Reflection**
    - Critically reflect on the entire project process and how well you have worked on the project.
      * What particular things have you learned during the project
      * Why were you able or unable to meet project goals?
      * What would you have done differently?
  + **Future work**
    - How many this project inspire others in the future?
    - Will this project make you want to work in the healthcare sector?
    - How will this project be improved in the future?
      * What avenues should be explored next?

**References**

Use a reference management software such as Mendeley or Zotero.

Must use IEEE citation style.