1. Task: What task are you solving?
   1. Please give a clear definition! If possible define variables
   2. What are the inputs? What kind of data do you need?
   3. What is your outputs?
   4. (Notice, a task only states WHAT is to be solved, but not HOW to solve it!)
2. Motivation: Why?
   1. In which domain are you solving this task?
   2. Why is it important to solve this task?
   3. How is this helping a user?
3. Method: How?
   1. How are you solving this task?
   2. Which algorithms are you applying?
4. Evaluation: Success?
   1. Which data are you using?
   2. What is the ground truth (e.g. how do you know what is correct/relevant?)
   3. Which evaluation measures do you plan on using?
5. Expectation
   1. What do you expect to come out of this?

Task: solve hospital treatment busy/accurately information retrieval

Inputs: topics from EHR admission notes.

Data: full-text biomedical literature from PMC

Outputs: full-text biomedical articles which are relevant to the topics.

Domain: clinical questions

Importance: increase clinical speed/use for intern/use for patient

Help: as above

How: retrieve full-text biomedical articles to answer clinical information from electronic health record.

Algorithm:

1. use all algorithms we have learned also include language model
2. see which algorithm is the best for which topic, use it for that kind of topic
3. machine learning

Data: full-text biomedical literature from PMC

Evaluation: all methods to see which makes more sense.

Nowadays, Internet becomes an important source for people to get information. But it has a shortage that some information may not be reliable. It does not matter sometimes. But we really need to take care when we are searching information about medical treatment. There is a great number of people dead because of the unreliable information about medical treatment from Internet. To solve this problem, we need a reliable source for medical treatment information and a handy application which will connect users and source of information. So for this project, we’re making an application which can answer clinical questions properly.

To retrieve answers for clinical questions, we will use PMC (PubMed Central) which is an online digital database of freely available full-text biomedical literature. It will ensure the reliability of information since the literatures are from professional doctors and they are added constantly.