**Week 3 Weekly Report**

**1. What you have done for the project during the week individually?**

At week 2, the client and our group members are allocated to Slack Channel. The client shared a background paper that could be used as a guide for our project. We could use it as a reference to decide the methods and how to evaluate those related to cross-domain vulnerability detection.

By studying the paper, I have a rough understanding of the project. The project goal is to research how to develop a benchmark system to identify the performance of Cross-project vulnerability model.

Then we had our first group meeting to get familiar with teammates. We shared our ideas about the project which we are on the same track. We have developed 8 questions going to be asked during the client meeting.

On Friday, we had our client meeting with the client and supervisor. Yongzheng clearly stated the background, workflow and research goal of the project. There are some key points summarised by me:

-We have a data source from the database which already have labels.

-We can use existing software to extract the features from the source code.

-Use the features to train different models where is the coding part of the project? And compare the performances of different models.

-We are expecting to research and develop a benchmark system that could visually rank the performances of different models. Also, explain why the benchmark system is convincible.

**2. What you plan to do for the project next week individually**

After the Client meeting, we decided to have a group meeting to discuss our next step.

1. Read in details the paper provided by the client. Find usable approaches that we could use in our research project. Also, find the method of the paper where to get the data and how to extract features from source code for our model building.

2. Read about the references in the paper. The references are related to this topic which will guide me to have a general background about the study.

3. Hold another group meeting to allocate parts of the project proposal for each team member.

**3. Issue you encounter**

The main issue I encounter this week is that the Github connection from China is not stable which resulting in me hard to upload files to Github.