MEETING MINUTES - Group 8

Date of Meeting: <27/08/2021>   **Location:** Zoom   **Chair:** Fan Zhang

Minutes Prepared By: Siqi Sun

1. Purpose of Meeting

Display and demonstrate the progress we have done this week and get some feedbacks from client and tutor.

2. Attendance at Meeting

Fan Zhang -a1738078
Siqi Sun -a1752383
David Wu- a1737845
Tianlei Qi -a1702131

3. Meeting Agenda

1. David and Siqi demonstrate the challenges they've encountered such as Tensorflow version compatibility.
2. Fan and Tianlei demonstrate the challenges they've encountered such as data preprocessing procedure, installation and usage of Joern.

Progress demonstrations and current challenges description – David & Siqi Sun (12 mins)

1. Environment issue (versions of tenserflow) and solution for it.
2. Display the whole process of training data (run SCDEN).
3. Paper understanding and elicitation.

Implementation demonstrations and current progress presentation – Fan Zhang and Tianlei Qi (12 mins)

1. Train model with the data shown in the paper – Dual-DDAN model
2. Data preprocess tools installation and usage.
3. Display the whole process of getting result data.

Future Plan description – Fan & Tianlei & David & Siqi (6 mins)

1. Where are we now and show the Gantt Chart.

2. According to the Gantt Chart, we are at the third phrase: Replicate three papers. Due to the fact that paper 2 has a similar structure with paper 1. Besides, there are multiple challenges such as data pre-processing issues, lack of code source. We decided to focus on the third paper: Software Vulnerability Discovery via Learning Multi-domain Knowledge Bases. Therefore, the next step is to replicate paper 3.

4. Meeting Notes, Decisions, Issues

1. Utilize external tools for data pre-processing: installation and usage of Joern.
2. Validate the dataset and make sure it is conceivable, potentially extend the number of datasets.
3. Communication strategy, send an email to the author team of the paper in time to make sure we are on the right track.
4. Result comparison and benchmark system about current methods.
5. Priority: Evaluation VS. Framework Building: misunderstand the concept of the project. It's a research-based project and the key point is to provide a benchmark system to evaluate different models.

5. Action Items

Action	Assigned to	Due Date	Status
Tensorflow Installation	David & Siqi Sun	26/08/2021	Done
Data preprocessing	Tianlei & Fan Zhang	28/08/2021	Done
Plan for SCDAN replication	Tianlei & Fan Zhang	10/09/2021	In process
Plan for Joern data reprocessing tools	David & Siqi Sun	12/09/2021	In process

5. Next meeting time   07/09/2021