**Final Report**

Di An

I am Di An, the system architect of the server group (Happiness Team).

As the center of this project, the server acts as the bridge of data transferring and communicating. When the user upload X-ray images for scoliosis detection, the server calls the corresponding scoliosis detection module, and the result will be sent to the user interface. For further details of individual contributions, please check the *latest news* column in our website <https://sjzdwk.github.io/>.

My job is to design the system architecture to meet the users’ requirements. I contributed to user requirement analysis and system design, and wrote the System Architecture Specification and Interface Specification. I’m also responsible for the revision and maintenance of documentation, including the second iteration of system architecture. Although there are certain differences between the documentation and latest implementation, the main contribution of my work acts as a reference for collaboration between the server and other groups. We discuss upon the feasibility of the proposed architecture, and reach agreements toward an ideal implementation strategy for coders, which pushes the progress of the project greatly.

In addition, I prepared for the mid-term presentation and the final presentation of the server group.

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Weikang DU

I’m the project manager of Happiness Team, taking the responsibility of controlling the project schedule. In addition, I also act as the requirements analyst, carrying out the analysis of customers’ requirements and writing the requirements specifications. I also act as the liaison who communicates with teacher, doctor and other groups. Moreover, I prepared the PowerPoint for the mid-term and final presentation of the server group.

As a project manager and a liaison, I spent most of my time communicating with other groups, as well as telling our team members the timeline and tasks we should finish. However, the results of the final exam are not desirable as we expected. I should take part of the responsibility. But honestly, I believe that I tried my best to do what I should do as my roles in the team. I would learn the lessons from this project and try to achieve more success in the future.

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Kedong XIU

I served as a member of the server team in this project. By using the Process class in Java to call the command line to execute the algorithm programs of different algorithm groups, I am mainly responsible for the interaction with the python algorithm side group. I am mainly responsible for processing the selection between different algorithms and the transmission of test picture data, sending data to the algorithm side, and receiving the data results from the algorithm side, and passing them to other parts of the server. At the same time, I am responsible for setting up the server for this project.

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Yuzhe CHEN

In this distributed development, I am mainly responsible for the implementation of the server group code part and the database design and implementation. Regarding the database design, we absorbed the different needs of the two iterations, and finally completed the design and implementation of the entire project database. In the server implementation, the data interaction with the Andriod group and the front-end group is completed through http requests, and the interface is reserved for joint implementation with the algorithm group. Generally speaking, all user needs are completed, including algorithm selection, external network access, multi-user concurrency, database interaction, etc., and the server has excellent performance, excellent framework structure, and no exceptions. The disadvantage is that because the server is installed locally, the performance of the local machine is not enough to support large-scale users to browse and visit at the same time, and there is no test software to test the extreme performance of the server. There is no data to support, which is the last deficiency we did. I hope that I can improve when I encounter this kind of project in the future. Generally speaking, I am quite satisfied with my personal completion and hope to continue working hard.

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Shizhe LIU

Clarify my contributions:

1.Communicate with other group members

2.Make webpages of our group and update them in real time

3. Assist the project manager of our group, control the project progress, urge the group members to complete their tasks, hold team member meetings regularly…

4. Write requirement analysis document and test report

**Final Report**

SOME OF OUR MEMBERS

----Some words we desire to say but have to remain anonymous, as the reason that most students and teachers in Chinese universities know.

After ASM2, I found that testers did not complete integration testing very good. Even though I participated in the integration test meeting, I didn't care about drawing lines because I didn't know what the results should be displayed. The test personnel of the algorithm group did not inform whether the display results were correct in time, which caused both the server and the client to think that the displayed results were normal.

In addition, the algorithm group did not complete their work well. The version changes of each iteration in algorithm are small, and the running results are not satisfactory. In order to finish the task, they make do with it. This is an irresponsible attitude. In addition, some algorithm groups always like to shift the responsibility to our server side, which makes us very unhappy. We implicitly remind them not to do so, but it doesn't work.

It can be clearly seen that some algorithm groups were extremely inactive, and always tried to assign their work to us. That’s another significant reason that I think may cause the progress of the whole project to be difficult to control. For instance, one of the algorithm group told us that they would NEVER finish the new requirement (such as the Lenke Classification). What’s more, doctor Song often sent me some photos and asked us to do the training, which was the planned work for the project. However, some algorithm groups always ignored them and said that they had got the best results. Even worse, when we discussed the final presentation date, they said that they wanted to finish the class as soon as possible and were not willing to do any extra work, even the work they should have done. Before the presentation, they sent us some pictures that performed better and asked us to use these pictures to present, while professor Zhang asked us to use the pictures given by the doctors. In this case, the FAKE plan designed by some algorithm groups TOTALLY failed. Even more, after knowing there were some errors of the algorithm, they still wanted to pass the buck to our group, saying that the axis of X and Y was opposite because of communication, which was not the true reason. In my opinion, it is not fair to say who should take charge of this situation, because we all know the strength, or the motivation of individuals (or 2 to 3 groups) does not matter at all.