Hello everyone. Now I will talk about the ER diagram of our hospital management system. There are ten entities and eight relationships in total in our system which includes xxx. And what you should pay attention is that the entity medicine\_purchase is a weak entity. The attribute medicine\_id of the medicine\_stock is required to identify medicine\_purchase entities uniquely.

For every entity，there are a lot of attributes. There are a lot of attributes in every entity of our ER diagram. We have shown all the entities and attributes using the relation schema. I cannot explain all of them one by one in detail because of the limitation of time. However, I will use the relationship between the treatment\_record and the doctor as an example to explain our design. The primary key of doctor is doctor\_id and the primary key of treatment\_record is treat\_id. As you can see, some doctors will record many treatments and some doctors may not record any treatment. Every treatment record must be recorded by the doctor. Therefore, the relationship is many to one and total to partial. It is easy to understand. These are all the contents of our ER diagram analysis. Then my group member will show the database design to you.