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Introduction

We were approached by a failing bus company trying to turn around their business. They said they wanted us to setup a database for their company and great user interface to be able to use that database. We decided to go the route of using MySQL workbench to make the database. We decided to use intellij to make the user interface. We then asked them what they wanted their database to do. They said they wanted a database that would display the routes of their buses for anyone to see. They wanted a contact page for everyone to be able to access. They wanted a request option for customers to be able to request available taxis. They wanted an Employee Login, a Supervisor Login, and an Administrator Log in. We began by making an ERD to see how we would structure the database, and we made a schema as well making sure everything would work properly in theory before we showed the boss of the company and see if he liked it. We began the making the database in SQL on MySQL Workbench. We made a Java application that had such functionality. We connected the database to our java application. We then embedded it with SQL queries to properly display what was needed in each different page that was open when the corresponding buttons were pressed. They then told us they wanted the employee login to only display the information of the employee. They wanted the Supervisor Login to see their station number, station name, and number of employees they manage. They also wanted the supervisor to be able to see a list of employees separated by the jobs they do, such as mechanics, janitors, cashiers, and drivers. They wanted the administrator to be able to add and delete vehicles, and add and delete employees. We made the application and showed it to them. They said they wanted one more thing on the front page which would tell the user what the company is all about. We said don’t worry, and they loved the application. We later offered to port over the app so that it would work on android and ios devices. They said with the job you’ve done how could we not want that.