**Platform:**

* The platforms that we are developing on are windows 10 home, and mac High Sierra 10.13.

**IDEs:**

* Intellij IDEA
  + This is a Java IDE with plugins such as JavaFX and SceneBuilder to help build the users interface for the software. This is wildly used with several resources available for troubleshooting.
* Eclipse
  + This is a Java IDE one of the mostly widely used Java development tools there are.(This will not be configured to fully run the application strictly back end files)
* MySQL workbench
  + This is a visual aid to help develop and trouble shoot MySQL problems. It also helps manage the database during development.

**Non-original artifacts and changes made:**

* In order to develop in Java one must have a JDK installed on there devices. Most IDE,s will have an option to install the JDK along side the IDE. If this was not an option one can download the JDK from oracle.com.

**Framework:**

* JavaFX is a GUI building framework plugin. This was developed and supported by oracle. This allows developers to create interactive applications for the users.

**Installation instructions:**

* Intellij IDEA
  + To install this first go to there website(https://www.jetbrains.com/idea/) and install IJ. There are two options Ultimate or Community both will work. JavaFX comes preinstalled as a plugin so nothing needs to be done in order to work on the JavaFX aspect. In order to access the mysql database one must download the connector jar file from <https://dev.mysql.com/downloads/connector/j/> then unzip it and then add it to the external libraries for the project.
* Eclipse
  + To install one must go to the eclipse website(eclipse.org) and follow the install instructions for eclipse neon or oxygen. Next go download the jar connector from https://dev.mysql.com/downloads/connector/j/ and unzip it. Once installed you must select to build path on the project then add external jar and add the jar file.
* MySQL workbench
  + To install proceeded to the following website and follow the download instructions. <https://www.mysql.com/products/workbench/>. After doing so create a local account on your device.

**Configuration instructions:**

* In order to configure the application one must create a new project in Intellij and then load all the supporting files into the project. They must then start their local mysql server in order to have proper communication to database. The class which handles the connection to the MySQL database may also need to be changed to fit the users local database. To changed this make sure the port, username, and password are all the same as on the local machine.
* Eclipse was used in development for the backend files. A project must be created then the supporting files must be loaded into the project. Then one must start their local mysql server in order to have proper communication with database. Plugins must be configured in order to use the javaFX framework and eclipse is strictly used for the mysql calculations and management. The class which handles the connection to the MySQL database may also need to be changed to fit the users local database. To changed this make sure the port, username, and password are all the same as on the local machine.
* For MySQL the database must be imported from the github repository to have to proper up to date information and format.

**Running instructions:**

* To run the full application open Intellij and select the file titled as “main.java”. Then open up MySQL workbench and start your local server. Also make sure that the database has not been altered in the github repository and if it has update it. After this is done go to the task bar at the top of the application and press the green play button.

**Usernames/passwords needed or where to obtain:**

* The Business owners username and password will be provided for each company by the development team. For security purposes not just anyone can create an accounts.
* The Business owner will be able to create sub accounts linked to their data and provide this information to its employees.