Project Report HY-360

Team Members:

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Setup to Test

To setup your computer to test the project in Windows 10(It is the only OS that the project to) you have to install the following:

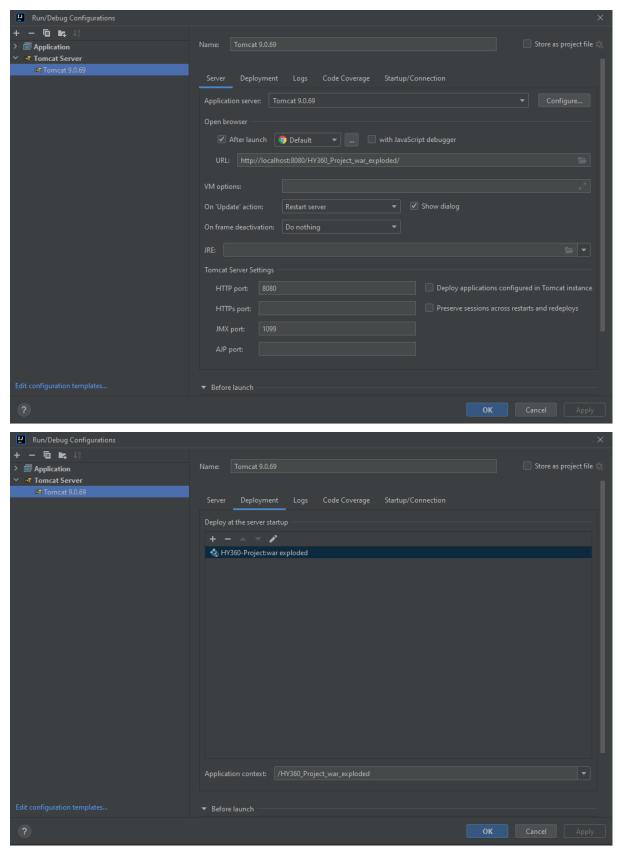
- -XAMPP: https://www.apachefriends.org/download.html
- -Intellij IDEA Ultimate:

https://www.jetbrains.com/idea/download/#section=windows

- -Tomcat apache, version: 9.0.69
- -JDK Temurin 11 for Windows 10:

https://adoptium.net/temurin/releases/?variant=openjdk11

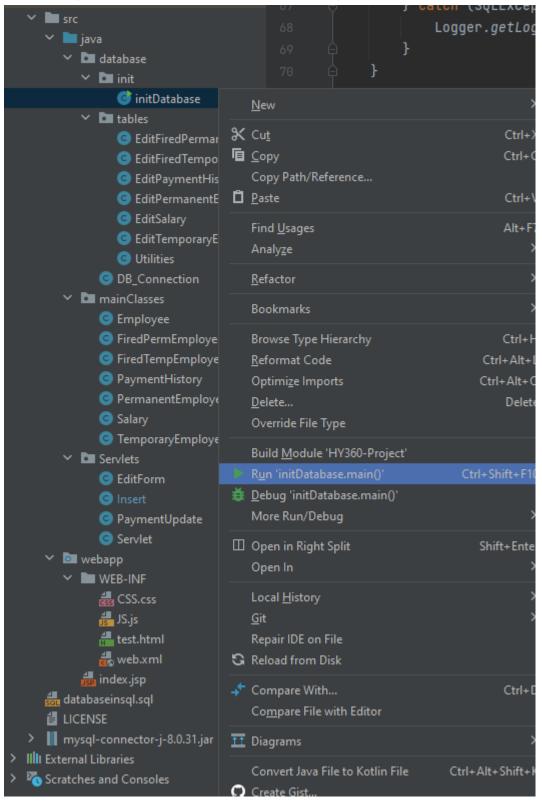
After the downloads above, you have to create a Jetbrains account and activate the full licence to install IntelliJ IDEA Ultimate, after the installation is complete install XAMPP and the JDK and extract the Tomcat apache folder. Then insert the JDK into your IntelliJ settings and open the project, now create a configuration with the settings below:



Where the artifact name is the name of the folder which the project is in.

Then startup XAMPP and click start on Apache and MySQL.

Then find the initDatabase(); main which is located at src/main/java/database/init/InitDatabase.java as shown here:



Now choose the Tomcat configuration which you created earlier and then hit run.

The project has now started running and is ready to be tested.

Classes and Visualization of the Implementation

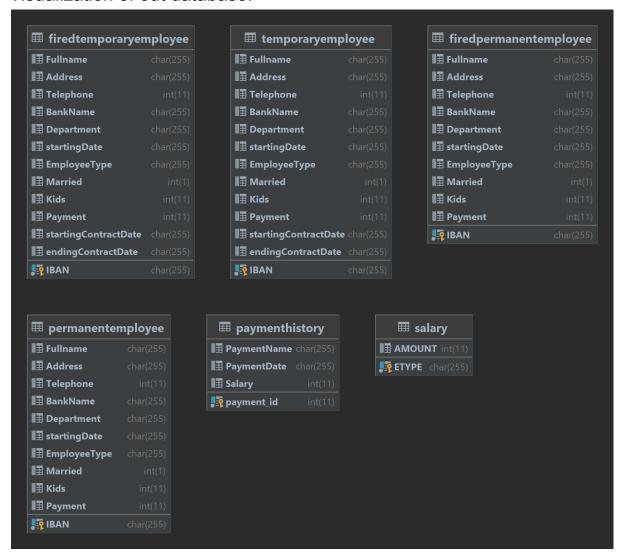
We mainly used servlets(Java) to create the implementation of our project, so that we could connect the graphic interface made in HTML with our database that was created using SQL. Each servlet has a designated function and is invoked whenever a corresponding button of "submit" type is pressed.

- 1. In the files: allsqlcommands.sql and databaseinsql.sql you can find all the SQL commands that were used throughout our code.

 More specifically in allsqlcommands.sql: are all of the SQL commands.

 While in databaseinsql.sql: are only the ones that were needed to CREATE the database.
- 2. Here are the classes and methods that were used for this project:

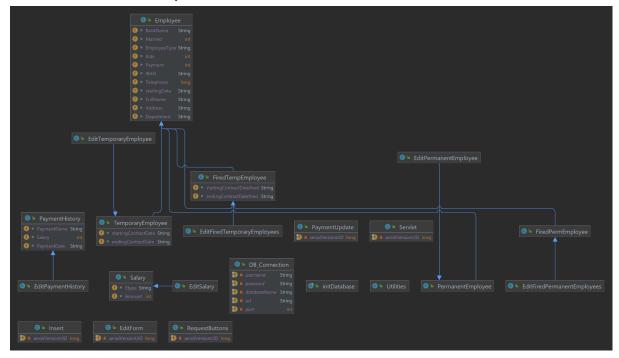
Visualization of out database:

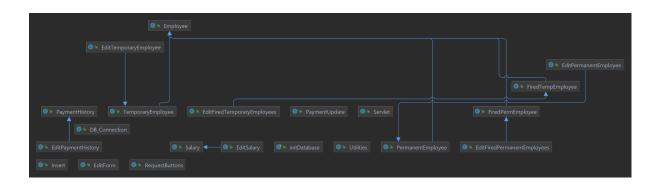


UML Diagram of the classes and methods:

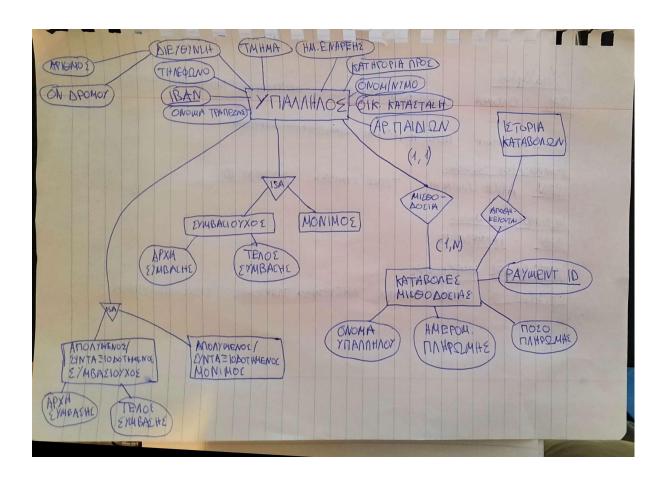


And here are its simpler versions:

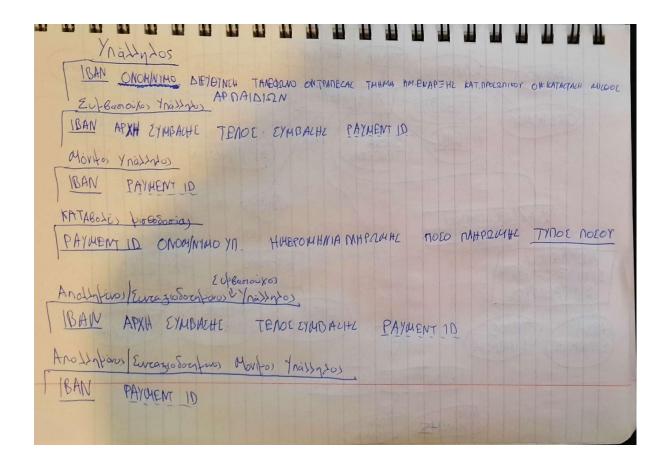




Σχεδιάγραμμα Οντοτήτων Σχέσων Ε-R



Πίνακες Οντοτήτων Σχέσων Ε-R



Σχέσεις Εξαρτησέων και Μορφή 3NF

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