Development Environment

Dependencies
Windows 10
JDK 17.0.2
Visual Studio Code User version 1.65
- Java Extension Pack
  - Debugger for Java
  - Language Support for Java(™) by Red Hat
    - JavaFX
  - Test Runner for Java
  - IntelliCode
  - Project Manager for Java
  - Maven for Java

MySQL Community Installer 8.0.28
Git
apache-maven-3.8.4-bin.zip
Github Desktop
Scene Builder 17.0.0
Radiology Information System Files

Run-time Environment

Dependencies
Windows 10
JDK 17.0.2
Visual Studio Code version 1.65
- Java Extension Pack
  - Debugger for Java
  - Language Support for Java(™) by Red Hat
    - JavaFX
  - Test Runner for Java
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  - Maven for Java

apache-maven-3.8.4-bin.zip
Radiology Information System Files

Run-time Installation Instructions

It is recommended to run the System inside a Virtual Machine

1.) Download and install the Java Development Kit 17.0.2 to an accessible folder.
2.) Open the installation folder and copy the folder pathway from the url
    a.) Type “System Environment” into the windows search bar and open “Edit the System Environment Variables”
    b.) Under the “Advanced” tab click on “Environment Variables”
    c.) Click “New” under System variables.
    d.) In the New System Variable pop-up enter JAVA_HOME as the variable name and paste the url of the installation folder into the System variable field. Press “OK”.
    e.) Under System Variables find the “Path” variable and click “Edit”
    f.) Click “New” from the sidebar on the right
    g.) Paste the installation directory url into the field and press “OK”
    h.) Open Command Prompt and type “Java -version” to check installation status
3.) Download and install Visual Studio Code User version 1.65
    a.) Open Visual Studio Code and navigate to the extensions tab on the left
    b.) Search for the Java Extension Pack and install it
        i.) The extension pack will prompt you to download a JDK. Choose version 17 of the OpenJDK download and install it.
        ii.) Running the “Java -version” command again in command prompt should show the updated JDK
    c.) Navigate to the Explorer tab on the left and click “Open Folder”
    d.) Navigate to \Team4Project\Original_Project_Files\Original_Project_Files and select the folder.
4.) From VS Code Navigate to a .java file and from the top navigation bar select “Run” then “Run without debugging”

5.) The System should open up successfully.

Setting up Development Environment

1.) Download and install MySQL Community Installer 8.0.28 choosing all available options
2.) Download and install the Git, Github Desktop and Scene Builder 17.0.0
3.) Download and install apache-maven-3.8.4-bin.zip.
4.) Follow the steps in “Creating a Remote Database using Google Cloud” in the “1. InstallationInstructions” folder
5.) Open the database connection and in the administration pane on the left select “Data Import/Restore”.
6.) Select the Option “Import from Self-Contained File” and navigate to the “Database Export” folder located in the “1. InstallationInstructions” folder.
7.) You may need to move the bottom pane down a little bit to reveal the “Start Import” button. Select that option to import the Database export into the remote database.
8.) Select “Schemas” from the left pane and refresh the schemas pane. Right click and select the db_ris schema as the default schema. From the Query Pane in the center type “Select * from users” and press the yellow lightning bold button in the top navigation bar to submit the query.
9.) From the MySQL Workbench home, right click the connection and select “Copy JDBC Connection string to clipboard”.
10.) Open the “\Team4Project\Original_Project_Files\Original_Project_Files” folder in Visual Studio Code navigate to the folder at “\Team4Project\Original_Project_Files\Original_Project_Files\application\src\main\java\com\example\application\DatabaseConnection.java”
11.) Inside the DatabaseConnection.java set the datbaseName variable to “db_ris” and the username and password to the values decided when setting up the remote server. In the url section past the value of the JDBC string removing all values after the remote server's IP Address.
12.) You should now be able to run the system with your own remote database connection and develop the system further as needed