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LiveClass - Deployment Document

The project consists of two files:

- Project.zip
 - Project folder
 - src: contains all the backend code
 - lib: contains all java libraries (in .jar format)
 - WebContent: contains all the frontend code
- Database.sql: MySQL script to generate the database schema

Getting started:

- **JDK 1.8**: if not installed, download and install JDK 1.8 from [Java SE Downloads](#)
- **Eclipse**: if not installed, download and install from [eclipse official website](#)
 - Choose either 32-bit or 64-bit version (Windows)
 - Only 64-bit version is available (Mac)
- **Tomcat 9.0**: if not installed, download and install from [tomcat official website](#)

In **Eclipse**: setting up the project

1. Export project.zip file into eclipse-workspace
2. import the project root folder
 - a. File → Import projects from file General → Existing Projects into Workspace
 - b. Select root directory → Click “Browse”
 - c. Select the project’s root folder in eclipse-workspace
 - d. Click “Open”
 - e. Click “Finish”
3. Adding JARs to eclipse project
 - a. Navigate to Project → Properties → Java Build Path → Libraries and click “Add External JARs...”
 - b. Locate the JAR files, select them, and then click OK. (See the outside libraries below)
4. Link outside libraries to web server

- a. Right click on project → Properties → Deployment Assembly → Add → Java Build Path Entries → select all required .jar files

Outside Libraries:

- JavaCV: for the camera. [Tutorial](#)
 - [javacv-platform-1.3.3-bin.zip](#)
 - [javacv-platform-1.3.3-src.zip](#)
- JavaServer Pages Standard Tag Library (JSTL): for front display logic
 - [jstl-1.2.jar](#)
- MySQL Connector/J
 - [mysql-connector-java-5.1.40-bin.jar](#)
- jQuery
 - [jquery-3.2.1.js](#)

In **MySQL Workbench**: setting up database

1. Start MySQL server
2. Log in with an account
3. Click “Open a SQL script file in a new query tab”
4. Execute the script (click “lightning bolt button”)

A step by step instruction on how to run this program is listed below:

1. To execute the program (In Eclipse)
 - a. Open WebContent folder
 - i. Right click “index.jsp”
 - ii. Click Run As → Run on server
2. The homepage should be loaded in your default browser.
3. To log in, press login button on the top right corner of the homepage.
4. Once redirected to login page, enter your username and password.
5. Once the user logs in, the system will decide whether the user is a course staff member or a student. The lectures page will be updated according to their access.
6. If the user wishes to proceed as a guest, they do not need to log in. The guest user can browse public lectures or they can enter a private lecture by entering its access code (acquired through email from a course staff of that course).