Budget Tracker Project 📊 🐽

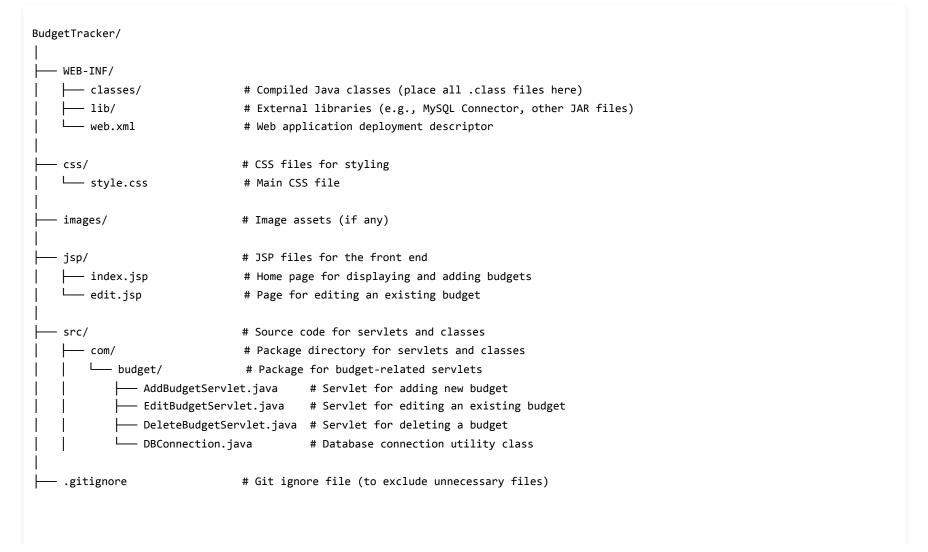




This is a Budget Tracker web application built using Java, Servlets, JSP, MySQL, and Tomcat. It allows users to add, edit, and delete their budget entries. This project is designed to track expenses with simple CRUD operations and a user-friendly interface.

Project Structure





Features \mathscr{A}

- Add Budget: Users can add new budget entries with details (e.g., category, amount, date).
- Edit Budget: Users can edit existing budget entries to update their information.
- **Delete Budget:** Users can remove budget entries from the tracker.
- Display Budgets: All the budgets are displayed in a clear and organized manner on the home page.

Requirements |

- Java JDK 8 or higher .
- Apache Tomcat 9.0 or higher
- MySQL Database **
- MySQL Connector/J for connecting the Java application with MySQL (included in lib/ folder).

Setup Guide 🛠

Follow these steps to set up and run the project:

Step 1: Install Java and Set JAVA_HOME

- Download and install Java from the official Oracle website.
- Set the JAVA_HOME environment variable on your system:
 - Windows: Go to System Properties -> Advanced -> Environment Variables -> New (System Variable) -> JAVA_HOME =
 - Mac/Linux: Add export JAVA HOME= to your ~/.bash profile or ~/.bashrc.
- Step 2: Install Apache Tomcat
 - Download and install Apache Tomcat from the official <u>Tomcat website</u>.
 - Set the CATALINA HOME environment variable similarly to JAVA HOME.
- Step 3: Set up MySQL 🛠
 - Install MySQL and create a database for the project (e.g., budget tracker).
 - Make sure to update the database connection details in DBConnection.java (URL, username, password).
- Step 4: Compile the Project 🔒
 - Navigate to the project root directory and use the following command to compile all the Java files:

javac -cp ".;C:\path\to\tomcat\lib\servlet-api.jar;mysql-connector-java.jar" -d WEB-INF/classes *.java

- Step 5: Deploy to Tomcat 🚀
 - Place the project in the webapps directory of Tomcat.
 - Start Tomcat with the command: bin/startup.bat (Windows) or bin/startup.sh (Mac/Linux).
 - To stop Tomcat: bin/shutdown.bat (Windows) or bin/shutdown.sh (Mac/Linux).
- Step 6: Access the Project
 - Open your browser and go to http://localhost:8080/BudgetTracker/ to view and interact with the project.