War History Explorer Project

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1 Project Description

War History Explorer is a project of java desktop application. The application purposes is to browse the history databases ranging from history events and figures The application uses XML database form for saving the database persistently. The application use Jframe library for the user interface and StAX Parser library for parsing the XML documents. Hence, the program does not depend on any external third party tool.

The purposes of this program is to store information about history conveniently and allowing the user to manage the database through the application user interface only. The user can also use the application for searching purposes by filtering the database with keywords.

2 Functionality

2.1 Implemented Functionality

- Allows the selection of data in the database
- Show the detailed description and picture for each data
- Allow the user to search the database with a keywords
- Allow the user to delete the existing data in the database
- Allow the user to add new data into the database
- All user interactions with the database via application are updated into the database in real time

2.2 Future Updates

- Add more database category such as weapons, inventions, and countries
- Add save button functionality
- Add browse picture button for saving new picture
- Fix the awkwardness of UI

3 System Requirements

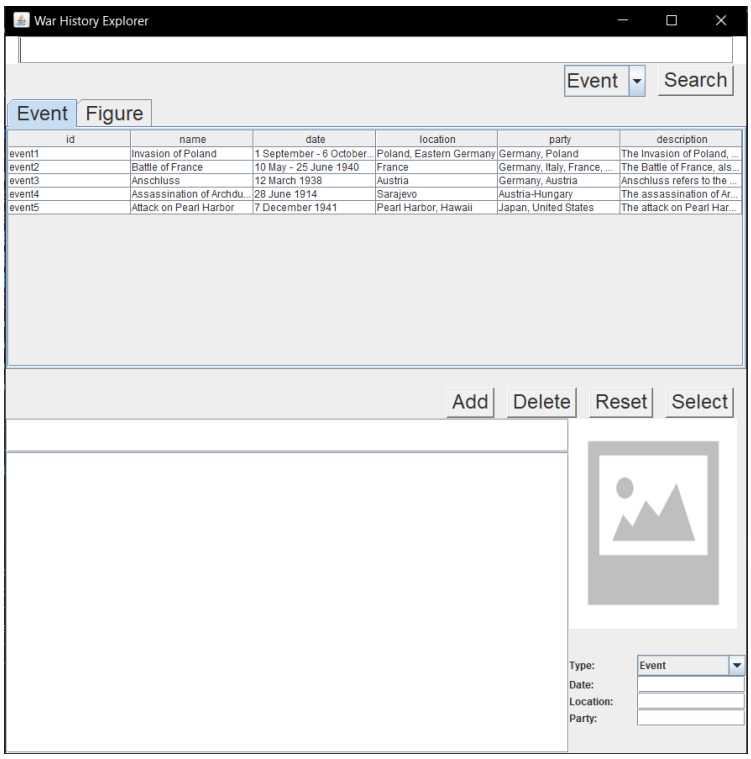
3.1 Software Requirements

- Java 1.8 SDK
- Java 8
- Windows Operating System (32-bit / 64-bit)
- No internet connection required
- Java libraries used:
    - Javax.swing
    - Javax.xml.stream

4 How to Use Guide

4.1 Running the Program

The program need to be compiled all together and run the main.java as the file contains main() method. After successfully run the program, the user interface should come out immediately. The UI should be the same as the picture below:



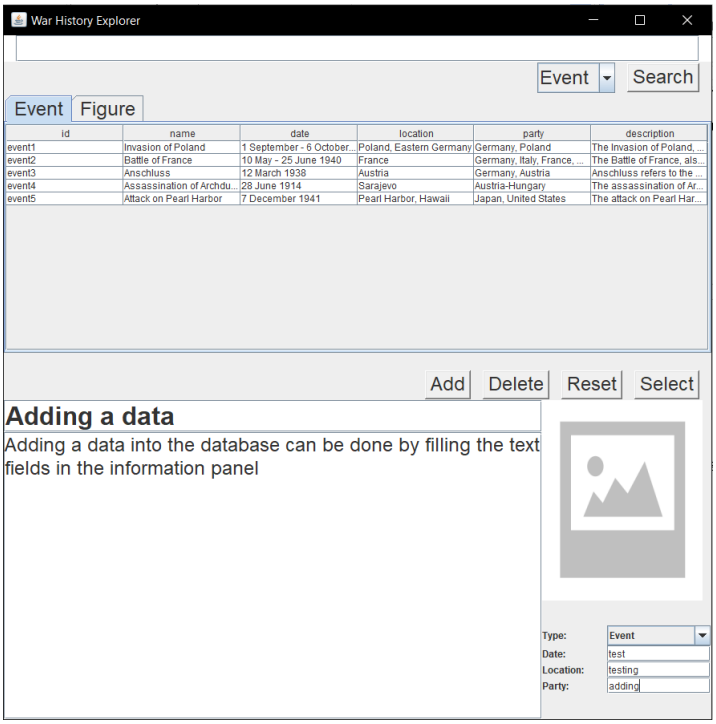
The program has tabbed panel element which categorize different database. Event tab shows the event database and figure tab shows the figure database.

4.2 Buttons Functionality

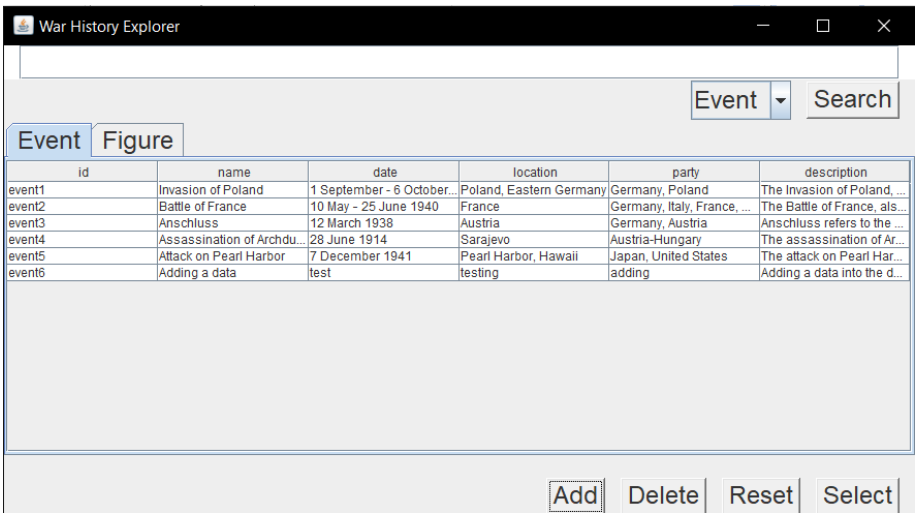
- Search button
  Search the database for the given keywords inputted in the search text field
- Add button
  Add a data into the database based on the information inputted in the information panel
- Delete button
  Delete a data currently selected in the database. The data need to be selected first by using the select button
- Reset button
  Reset the information panel texts, icon, dropdown menu and the selected data
- Select button
  Select a data from the selected row in the database and show the detailed information on the information panel below

4.3 Adding data

Adding a data into the database can be done by filling the text fields in the information panel. The example can be seen as below:



Then, the next step is to press the add button to append the data into the database or in this case added into the events.xml file. Finally, the program should update the table automatically and show the newly inserted data in the table.



5 Software Architecture