

Description of Systems Used in the Study

ArgoUML: is an open source UML diagramming tool. It includes support for all standard UML diagrams.

Features:

- Creating and editing diagrams and zooming features.
- Saving diagrams in different formats (GIF,PNG,PostScript,and more).
- Code generation for Java, C++, C#, PHP4, and PHP5.

SweetHome3D: is an open source interior design application. It allows a user to draw the floor plan of the house, as well as, to arrange furniture on it. It also provides the user with the ability to visit the results in 3D simultaneously while designing the home in 2D.

Features:

- Print and export PDFs, bitmap, videos in a standard file formats
- Create photorealistic images and videos.
- Customize lights and control sunlight effect according to the time of day and the geographic location.

aTunes: is an open source audio player that supports large playlists with thousands of songs. It supports different formats such as MP3, WAV, WMA, Ogg Vorbis, FLAC, and other formats.

Features:

- Editing tags, organizing music, and ripping audio CDs.
- Searching for a particular artist, album, or genres using a filtering option.

Siena: is a persistence library for Java inspired by the Google App Engine Python Datastore trying to draw a connection between SQL and NoSQL worlds. It does so by simplifying the transition between them and by reducing the effort required when converting from one database to the other. It can be used with relational databases, Google App Engine's datastore, and Amazon's SimpleDB.

Features:

- It provides a Java Object-DB mapping designed following the ActiveRecord pattern which brings a simple and intuitive approach to manage the Java objects with respect to the database entity.

MegaMek: is an open source computer game that is an unofficial simulation of the classic tabletop war game Battle Tech (2 or more players). It is written entirely in Java with graphics based on the Swing toolkit.

Features:

- Network or hotseat play for two or more players.
- Choice of ground, atmospheric, and space combat.
- Map board selection and editing.