

# Media Application for E-Learning Using Open-Source Technologies

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## Project Goal

The main goal of this application is to create a more dynamic collaborative environment for E-Learning platform Tesys Web by adding new functionalities such as video conferencing, instant messaging, white board, collaborative document editing, recording.

This application generates virtual rooms from Tesys Web into an Apache Openmeetings server based on information about faculty, specialization and study year obtained from Tesys Web Database. Users can access these rooms by clicking a button with an unique link on personal page which redirect user to an appropriate virtual room in Openmeetings. Teachers can access all rooms where they teaching an active course. Students can access all rooms appropriate for specializations at who are enrolled.

The rooms are generated by System Administrator of Tesys-Web.

## Involved Tools and Technologies

<b>Apache Openmeetings</b>	Is used for adding above functionalities to Tesys Web platform
<b>Apache HttpComponents</b>	Is used for developing connection with Apache Openmeetings's REST API
<b>Ubuntu Server</b>	Linux distribution operating system
<b>MySQL</b>	Tesys's Database.
<b>Eclipse IDE</b>	IDE for developing an application based on Java language programming.
<b>Java</b>	Programming language used for developing the plug-in for Tesys Web.
<b>HTML/CSS</b>	Is used for create pages in Tesys Web for the new functionalities
<b>PUTTY</b>	Is used for install an configure Apache Openmeetings on Ubuntu Server