Operating at the Middle East Technical University TECHNOPOLIS, DamaSistem is a research and development company focusing on development of educational software. Also providing training and consultancy, DamaSistem provides solutions to high costs, loss of time and low rates of success encountered by many organizations, which try to solve their instructional needs with traditional methods.

While making education more effective and entertaining through our **computer aided training solutions,** we also offer **tailored solutions to organizations**, as well as lowering training costs and delivering an increase in efficiency.

1.1. e-Learning

In order to maintain the knowledge of existing employees fresh and update where necessary, and to perform the training of newly hired employees, electronic learning can be performed without restrictions of time and place, eliminating the need for gathering the personnel together, thus saving costs on hall, classroom and accommodation.

Simulations designed and produced by **DamaSistem**, subjects and concepts that are more costly and from time to time impossible to describe by traditional methods, are transferred to the users by a much faster, easier and effective method with the aid of two and three dimensional animations. Subsequently, thanks to interactive applications, multiple choice tests and ordering and fill in the blanks exercises, even with the educational games, the achievement through the training given is reported via the measurement and evaluation taking place after the training.

The content, provided in a form compatible with **SCORM** and **IMS,** may be used in open source coded Learning Content Management Systems. This way, other advantages, such as forums, file storage, dictionary, chat, test and surveys are offered free of charge along with 70 languages support.
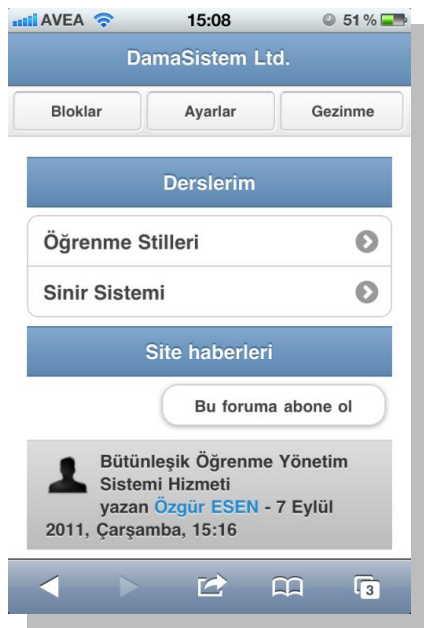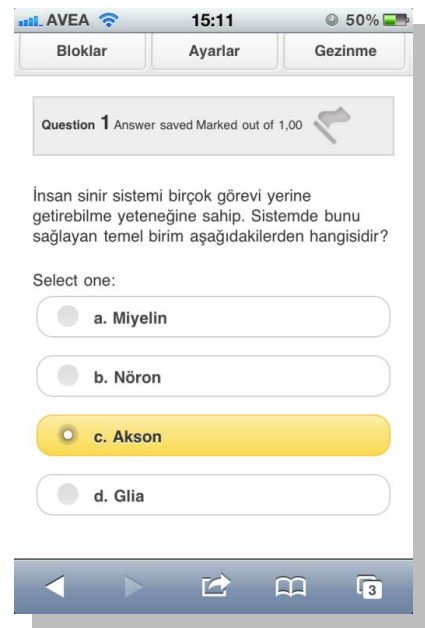
1.2. m-Learning

The developments in the capabilities of mobile devices and their dropping prices, the facilities offered for mobile Internet access, led **DamaSistem** to utilize its experience in electronic training in the field of mobile education and to design and develop mobile training solutions.

Screenshots of m-learning applications:

Course Selection and Forum

Quiz

Video Animation

3D Animation

In the context of distance learning we can provide:

LMS installation, configuration and customization. Trainings for maintaining the LMS are provided. We also offer support for system administration.

2. Learning Management System (LMS)

Provides the media for the asynchronous learning. Being used by more than 30 million people in 207 countries, **Moodle** supports most requirements of the LMS.

[Ref: http://moodle.org/stats/]

Course Screen:

Moodle, is an open source LMS. **Moodle** can easily be used by most of the teachers and students.

[Ref: http://tr.wikipedia.org/wiki/Moodle]

Reports:

LMS provides logs reports.

Logs and Statistic:

Activities of the students are logged and reported.
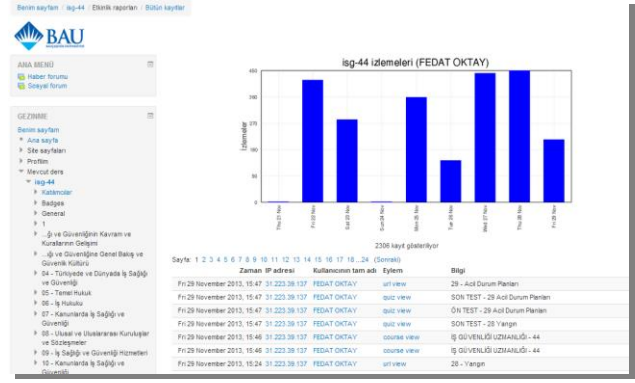
Question Bank and Exam Modules:

Questions are created by the trainers in the question bank. Quizzes are formed. Student achievement is measured by pretest and posttests.

Quiz:

Results:

3. Digital Learning Contents.

Impact of the digital learning contents are improved via animations and interactive exercises. Professional dubbings, recorded in studios are used. Mother tongues are available for a variety of commonly used languages.

User manuals

User manuals are provided in your own language, concerning the usage of the learning materials and suggestions for the study

Virtual Classroom and Video Conferencing

Open source coded Video conferencing systems are used for the synchronous learning, and integrated with the LMS by SSO (Single Sign-On) protocols.

Providing:

- **Audiovisual presentation**: Trainer presents his/her lesson via webcam and microphone connected to the PC or laptop**.**

- **Screen Sharing:** Trainer can share his/her desktop with learners.

- **Whiteboard:** A digital board that is presented to the learners.

- **Document Sharing:** Trainer shares documents and gives the lecture over that document.

- **Chat:** Learners ask questions and give feedbacks

- **Web Page Display:** Trainer, can browse a web page and display it to the learners.
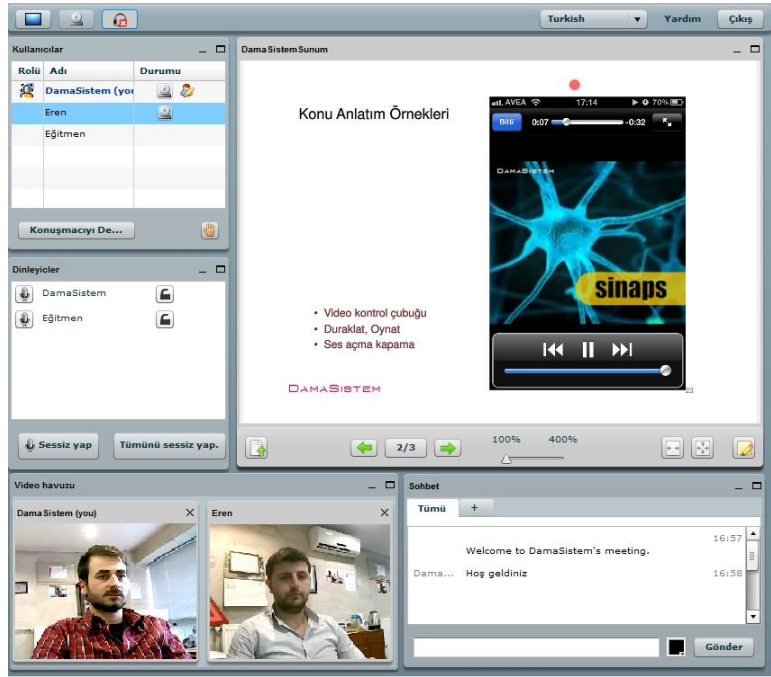
4. Application development for IOS and Android:

DamaSistem holds **Apple-IOS Developer Certificate**. Some examples are shown below:
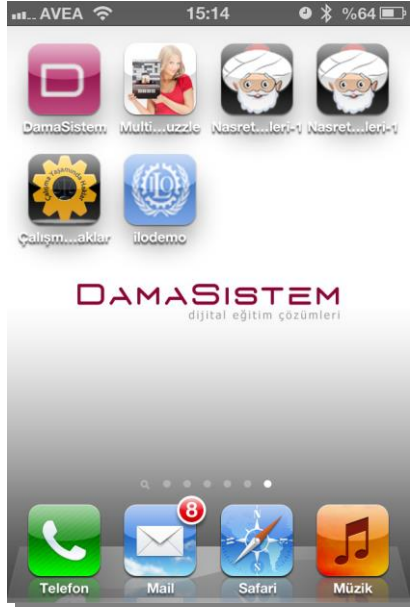

5. 3D Modeling and Animation

3D models and animations used in our learning contents are also provided separately for learning or different purposes.

6. References

6.1. Republic of Turkey Small and Medium Enterprises Development Organization (KOSGEB)

A module is developed for the smart LMS, which provides the content, which is the most suitable one for the learning style of the current learner. This project is supported by The Republic of Turkey Small and Medium Enterprises Development Organization. The learning style is detected by a questionnaire at the beginning of the study, and contents are selected by the method of least squares and presented to the learner.
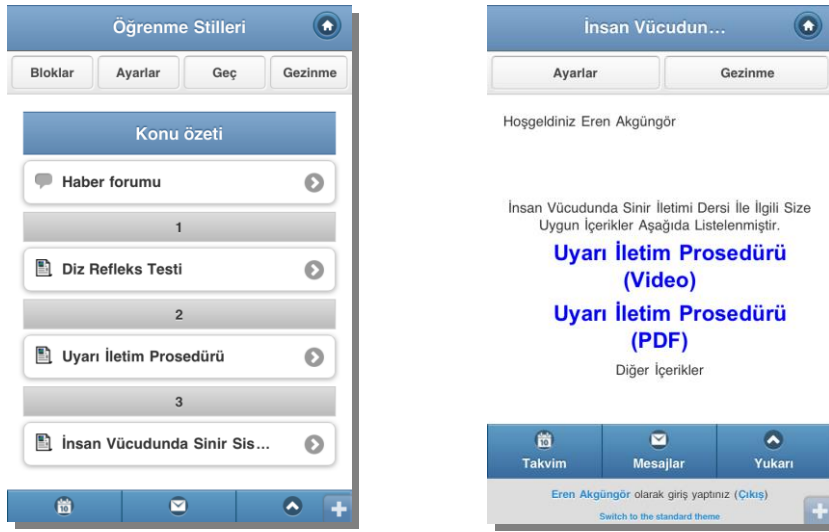
6.2. Middle East Technical University Informatics Institute

Course content for Information Systems MSc program are designed and developed. The language for education is English. Design and development of electronic content concerning Health Information Systems for the Middle East Technical University, Informatics Institute.
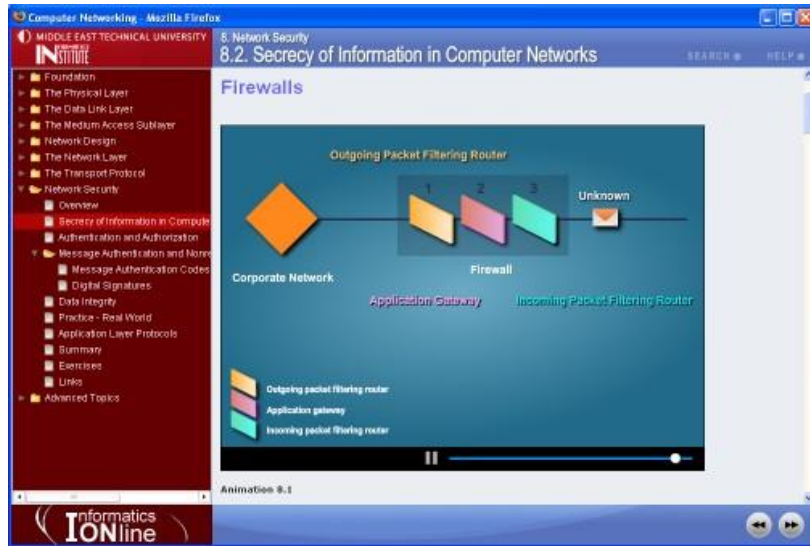
6.3. Bahçeşehir University

e-Learning content for the occupational safety. The LMS and course contents are certified by The Ministry of Labour and Social Security of Turkey.

- LMS installation and configuration,
- Video conferencing,
- Content development compatible to IMS-Scorm,
- Training of the trainers,
- Hosting,
- System administration
  are supported by **DamaSistem**.

6.4. Question Bank for The Schools of MatFen

On-line question bank application for The Schools of MatFen which is a very old and famous one in Ankara/Turkey

6.5. Union of Municipalities of Turkey

Within the scope of Implementation of Local Administration Reform in Turkey, the United Nations Development Programme (**UNDP**) supported software design and development (web design, administration and database management) to assist Union of Municipalities. http://www.tbb.gov.tr/.
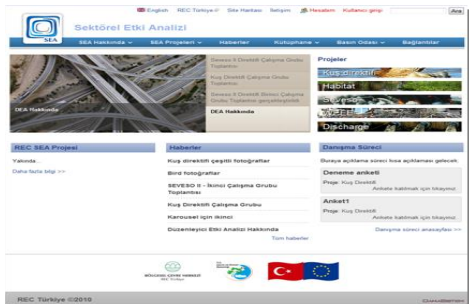
6.6. Learning content development for Lean 6 Sigma

Digital learning contents are designed developed in the context of lean six sigma.

6.7. Regional Environmental Center - REC

Instrument for Pre-Accession Assistance (IPA), Portal Design & Development for Regional Environmental Center (REC), supported by European Community.

6.8. Bahçeşehir K12 Schools

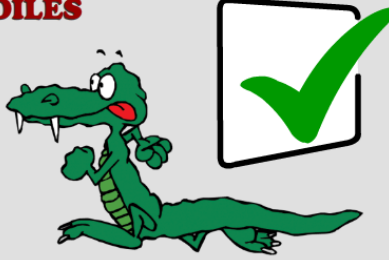Learning Management System for Bahcesehir K12 Schools is designed and developed for students of ages 8-12 with a user-friendly graphical user interface.

6.9. Karacan Education Company:

320 interactive exercises are developed for Karacan Education Company, which is one of the largest educational institutions in Turkey.

6.10. Ministry of Labour and Social Security of Turkey

An informational site that contains basic information for workers' right and responsibilities is designed and developed by DamaSistem for the Ministry of Labour and Social Security of Turkey.

http://app.csgb.gov.tr/bilgilendirme/

6.11. Online Maritime Education:

Computer Based Education materials for Beşiktaş Group (shipyard)

6.12. Abant Izzet Baysal University:

Design and development of interactive learning objects for a scientific research project.

6.13. In Service Training for The Fatih Project:

Design and development of the e-learning content for in service teacher training of Fatih Project for the Ministry of Education of Turkey.

http://fatihprojesi.meb.gov.tr/tr/index.php

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6.14. In-Service Training Content for Ankara University and Atılım University

Teacher training content for Moodle is designed and developed by DamaSistem.
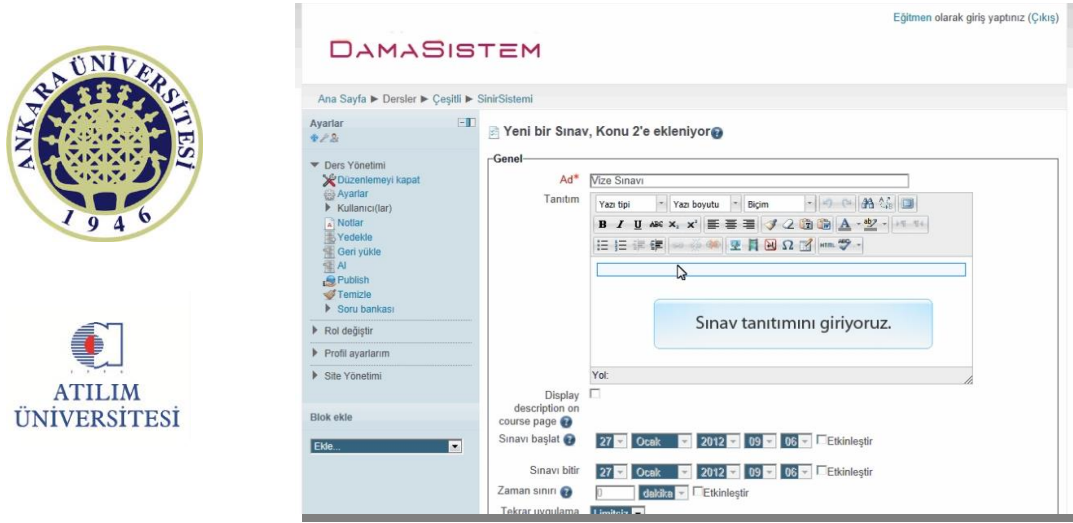
6.15. Mobile Learning Applications for International Labor Organization (ILO)

Mobile Learning Applications for IOS and Android are designed and developed.

6.16. Bakü Tiflis Ceyhan Pipe-line Social Responsibility Project.

Activity based financial monitoring system for social responsibility grant projects of BP Company.

6.17. Portal for Instructional Technology

An informational portal for supporting teachers in order to help them to integrate the rapidly developing technology to their courses. The portal gives opportunities of developing instructional materials. This project is developed for Ankara University.

http://teknoport.ankara.edu.tr/

6.18. The Scientific and Technological Research Council of Turkey (TÜBİTAK)

28 multilingual websites were designed and developed for institutes affiliated to TUBITAK that can be managed and updated from a single center.

The content entered by the editorial interface of websites are customized automatically according to display specifications of connected devices by the system itself (responsive design).
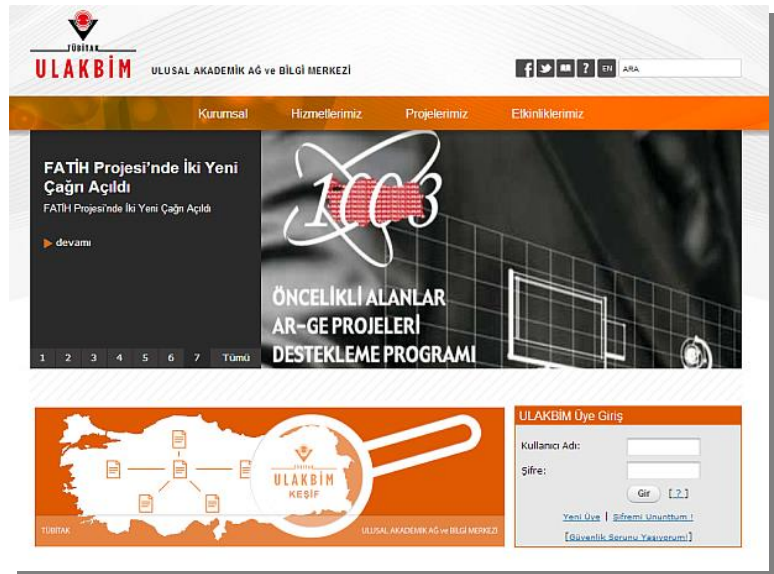
System administrator and user training was also provided.

Some of these websites' addresses as follow:

http://mam.tubitak.gov.tr/

http://h2020.org.tr/tr/

http://www.eureka.org.tr/

6.19. Web Portal for The Instruction of Turkish

An Instruction portal is designed and developed for the instruction of Turkish as a foreign language. Teachers prepare their own audiovisual learning materials and share them with their students on-line.

7. Fairs and Organizations:

7.1. CeBIT Bilişim Eurasia 2010 - 2012

DamaSistem presented mobile learning solutions.

http://www.damasistem.com/en/news/cebit-bili%C5%9Fim-eurasia-2010
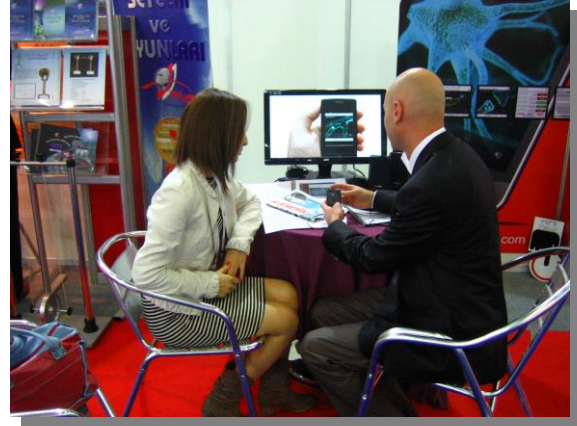
7.2. OnlySoft 2011

DamaSistem presented digital learning solutions.

7.3. Campus Technology 2012

At Middle East Technical University Campus Technology Event, **DamaSistem** presents digital learning solutions.

8. Services

Upon your requirements we provide;

- Learning Management System (**LMS**) installation, configuration, and customization,

- Computer aided learning contents,

- Bulk question insertion to question banks,

- System administration or training of the system administration,

- Teacher training,

- Web based instruction development education,

- System moderation (registration of the learners, forum moderation),

- Virtual-classroom video conferencing installation, integration,

- Hosting for LMS and video conferencing in our servers (100 Mbps bandwidth)

- Automatized backup in different geo-locations,

- User manuals specifically designed for LMS and video conferencing systems,

- Teacher user manual for video conferencing,

- Mobile access to LMS,

- Application development for IOS and Androd. DamaSistem holds **Apple-IOS developer enterprise certificate**.