Language Learning Solution

Specification

1. General
1.1. Complete management of the laboratory by the teacher using a personal computer (PC or laptop)
1.2. Student positions equipped with audio panels
1.3. All student activities displayed in real time on the teacher screen
1.4. Students may be divided into multiple smaller groups that may be engaged with different exercises simultaneously

2. Classroom layout
2.1. Classroom layout features icons for individual student positions and can be edited to correspond to the physical learning space. Each teacher can have their own personal classroom settings and layouts.
2.2. A default seating plan can be set for the system
2.3. Students that have not logged in are automatically handled as absent and their student icons are inactive

3. Communication
3.1. Communication tools must include
   3.1.1. One-way communication from teacher to students
   3.1.2. Two-way communication with individual student
   3.1.3. Sharing a model discussion to other students
   3.1.4. Messages from teacher to students
   3.1.5. Real time chat with selected students

4. Monitoring and remote control
4.1. Teacher must be able to perform the following monitoring and remote control operations
   4.1.1. Listen to an individual student and monitor their audio panel status
   4.1.2. Listen to and monitor students consecutively and automatically
   4.1.3. Remotely control basic playback and recording functions of a student audio panel

5. Sources
5.1. The following media sources can be transferred to student audio panels
   5.1.1. Audio from teacher microphone or selected student microphone
   5.1.2. CD drive in the teacher computer
   5.1.3. Media files from a digital storage unit
   5.1.4. External sources connected to the teacher computer. Analog media sources may be digitized and saved into a digital library.
   5.1.5. Audio material from a media player application on teacher computer
   5.1.6. Any playback sound from teacher computer
   5.1.7. Student pair or group discussion
5.2. Teacher must be able to speak to students and record on their audio panels during program transfer
5.3. System includes automated procedure for podcasting transferred source material and for uploading it to a Web server

6. Language learning activities
6.1. The system will have pre-set procedures for basic language learning activities, including
   6.1.1. Listening exercises
   6.1.2. Discussion in pairs and groups and phone discussions
   6.1.3. Simultaneous and consecutive interpreting
   6.1.4. Model imitation exercises
6.2. Student recordings may be collected to a digital storage system

7. Multiple choice tests
7.1. Teacher is able to create and distribute multiple and true-false tests during a class
7.2. Test settings, including program source selection, can be saved as ready-to-use test files and results, including detailed scoring data for each student, can be printed and/or stored as files.

7.3. Students must be able to answer the tests using buttons on their audio panels.

8. Recorded oral tests:
   8.1. Teacher must be able to create recorded oral tests and collect student recordings to a digital storage area.
   8.2. Saved student recordings must be able to be transferred into other computers for easy review.

9. Grading
   9.1. Teacher can give students grades on a customizable grading scale and short comments.
   9.2. A list of detailed grading information for all students can be printed out and/or saved as a text file.

10. Self-Study features
    10.1. Teacher can assign audio files or an external program source for students’ individual work.
    10.2. Students may work with self-study material even when the teacher application is not running.
    10.3. System allows set up of self-access workstations for independent study outside the classes. Self-access workstations may be located anywhere within an institution and may be used by students to access and playback learning material and to make recordings.

11. Student audio panel
    11.1. Student audio panels will have all standard playback functions and must include separate tracks for program media material and for recording user voice.
    11.2. Possibility to isolate a segment of audio material to be played separately or repeated continuously.
    11.3. Student recordings are done digitally in the system with 90 minutes of continuous recording time.

12. Digital storage unit
    12.1. The system must include a digital storage system for media material with storage space for up to 50 hours of audio material.
    12.2. Digital material can be copied to/from the digital storage unit either as single files or as entire folders.
    12.3. Audio material transferred from an external program source can be automatically digitized into the storage system for later use.

13. System setup, maintenance and training
    13.1. Installation and an end-user training session to be performed by a product-certified engineer.
    13.2. Product support, software updates, service patches and bug fixes will be available online.
    13.3. Laboratory must include up to 120 connections for teacher, students and media sources.
    13.4. Any C-cassette recorder must be able to be used in the system as a backup for the master recorder.
    13.5. Goods must have been produced under ISO 9001 or equivalent quality control system.

14. Furniture
    14.1. System must be equipped with teacher and student furniture.
        14.1.1. Teacher position has separate desk and chair.
        14.1.2. Teacher computer, digital storage unit and master recorder must be housed in teacher desk.
        14.1.3. Student positions may have separate desks and chairs or larger shared desks accommodating multiple students.

15. System Supplier
    15.1. System supplier must have Environment and Quality certificates.
    15.2. System supplier must be officially licensed to employ mp3-coding technology in order to create legitimate mp3-files.