DISTRIBUTED LECTURING AND EXAMINATION SYSTEM (DLES)

Project ID: PDCN-27

Project Supervisor

- Dr. Malitha Wijesundara

Group memebers

- M.F.F. Faraj - DCN/07/C3/0619

- Y.L.A Weerasinghe - DCN/07/C3/0642

- T.I. Senevirathna - DCN/07/C4/0816

- R.M.A.I.K. Amunugama - DCN/07/C4/0752

- Udari Edirisooriya - DCN/07/C3/0582

INTRODUCTION

PURPOSE OF SRS DOCUMENT

- It describes:
- Functions and Features
- Issues related to the system
- Actions to be performed by the development team

SCOPE

- Real time lecture conducting/viewing
- Downloading lecture materials
- Real time whiteboard viewing
- Previewing lecture slides
- Recording and storing lecture videos
- Viewing the lecturer/student
- Lecturer and student interaction
- Online examination center with real time monitoring

OVERVIEW OF SRS

1st & 2nd chapters

3rd chapter

End user

Developers

- Overall description

- System interfaces requirements

- product functions

Specific requirements

Performance

Design constraints

Udari Edirisooriya - DCN/07/C3/0582

OVERVIEW OF DLES

✖ Web based application

Distributed Lecturing
system

Online examination
system

SYSTEM DIAGRAM

- ✖ Animation

USER REQUIREMENTS

✖ ## Product Comparisson

Products	Live lecture materials sharing	Real-time whiteboard	Examination system	Web based
eLecta Live	✔	✖	✖	✖
INTOWEB	✖	✖	✔	✔
Virtual Blackboard	✔	✔	✖	✔
DLES	✔	✔	✔	✔

USER INTERFACES

- Login Interface
- Main System Interface
- Exam Interface

Software Interfaces	Hardware Interfaces
Windows / Linux OS	Computer Head set
MySQL Workbench	Webcam
NetBeans IDE	Min 56kbps bandwidth internet connection

COMMUNICATION INTERFACES
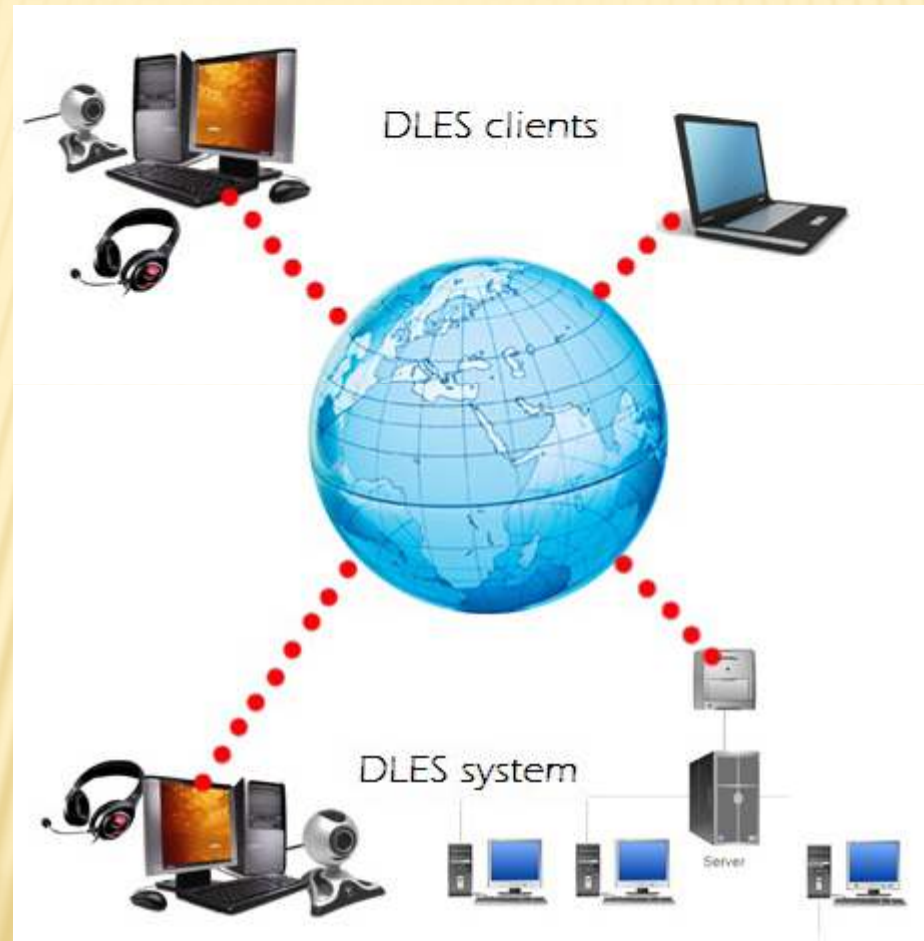
SYSTEM REQUIREMENTS

Client	Server
Windows / Unix / Linux	Windows / Unix / Linux
Java script enable web browser	Java Enabled
Flash player installed	Apache with PHP installed
Java Enabled	MySQL installed
	Red5 installed
RAM – as required by the OS (128MB **free**)	4GB RAM (for production environment)
CPU – as required by the OS	Xeon recommended
HDD – 100MB free	2TB or More
1024 x 768 with depth of 16 (minimum)	N/A
512kbps (minimum)	16mbps recommended

NON-FUNCTIONAL REQUIREMENTS

- Interface requirements

  - Gives the student community a new concept of sharing the knowledge

- Performance requirements

  - **Reliability** : uptime of 95%

  - **Security** : User privilege and admin privilege

  - **Survivability** : need to survive physical disaster

  - **Time** : acceptable lag of 15 ms

NON-FUNCTIONAL REQUIREMENTS CONT...

* Operating requirements
  + **Client-end** : normal internet user
  + **Server-end** : system administration knowledge

* Lifecycle requirements
  + New functions includable – modular concept
  + Life time depend on server's performance

* Economic requirements
  + High end server cost + bandwidth cost

RESEARCH COMPONENT

- ✖ Whiteboard and lecture slide preview

- ✖ Video multicasting

- ✖ Examination center

EXAMINATION CENTER

- Tests can be created on a random basis per student..

- A time limit can be set for the test

- Allows jumping to specific questions

- Automatically generate results.

TYPE OF QUESTIONS

- Multiple Choice

- Multiple Response

- Fill-in the blanks

- Numeric

EXAMINATION SECURITY

✖ Only registered students are able to access a test.

✖ The test can be made available on specific dates.

✖ The test can be made available at specific times.

✖ The number of times students access tests can be set.

Thank You...