In detailed structure of moodle

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1 common features of moodle

1. These will provide the course wise and also it used to conducting the quizzes unitwise for the students.

2. it is used to generating the examination papers with different features.

3. These will used to give the idea to students after attempting the any quiz or any exam, where there(it means, student position in the class with chart).

4. These moodle will provide the plugins and it will support the adding the features by using external tools.

5. For the students, providing online material and conducting assignment, clearing doubts by using newsforum, online examination facility.

6. Providing the statistical analysis and related graphical analysed results.

7. These will be used to conducting the online examination and These can be operated in remote centers from any place in the world.

2 Interms of interfaces

These hole system is divided into following interfaces:

1. Administrator

2. Instructor

3. Students

Above features can be further described indetailed as follows:

1. Administrator
   
   (a) Managing external plug-in’s and tools
   (b) Managing database
(c) making the schedule of various courses quizzes conducted by instructor (It means scheduling and running online examination.
(d) Managing the access rights of students and instructors or mentor
(e) Managing available statistical analysis and external tool support
(f) Collecting the feedback mechanisms for effective communication

2. Instructor

(a) Uploading assignments and checking assignment submissions
(b) Clearing doubts in Discussion forum
(c) Files download
(d) Grading
(e) Online news and announcement (College and course level)
(f) conducting Online quiz

3. Students

(a) Can access Course, Subject and Unit wise Question Bank and solve questions online/offline
(b) Check scheduler for current assignments (to follow up at moodle) or to check course progress
(c) Participate in time bound online examinations
(d) Viewing question papers and question bank in various formats such as pdfs, doc, etc
(e) View statistical analysis and related graphical heuristics of class / institution
(f) Feedback about courses, questions and process through relevant interface

3 Technology used in moodle

1. In moodle used LAMP which consisting of Linux, Apache, MySQL and PHP, Javascript.
2. CGI (common gate-way interface) along with AJAX
3. IDE’s are used for developing moodle is Netbeans or Eclipse

Development process of moodle consist as follows

1. Write extra modules required and database update (for providing extended features to Moodle)
2. Updating the various interfaces of Moodle (rewriting and updating existing codes)
4 Moduler structure of moodle

Moduler structure of moodle can be described as follows

Abstraction of each module:

1. Mentor or Teacher Module:
   
   (a) Teacher use AJAX engine to ineract with the Administrator module
   
   (b) Cache will be useful to handle the multiple XML HTTP requests and responses, it will helpful for situation of overload with requests and responses
   
   (c) Above figure represents only one mentor but it will handles multiple mentors also over the network.

2. Student Module:

   (a) student module also uses AJAX engine as intermediate for all transactions with server
(b) In the case of examination routine, during which no cache is main-
tained
(c) Only secure communication channel is established, these is because
of security issue.

3. Administrator Module
(a) Admin module is responsible for processing all requests through schedul-
ing and caching all XMLHttpRequests
(b) These servicing examination routines will done under secure channel.
(c) Other than these responsibilities, some more responsibilities have
which are database backup, maintenance, plug-ins profiling.

5 References
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   http://wiki.laptop.org/go/CustomizingMoodletoincludeefficientExaminationProcesses
3. http://docs.moodle.org/dev/Developer\texttt{documentation}?rdfrom = http