

IITBX

MOOC

Project Scope

- Designed around the key principles of openness, diversity, interactivity and autonomy.
- Quality education free of cost.
- Access to world-class faculty and an unconventional curriculum.
- Can bring about a drastic change in the conventional education system.

edX

- A massive online open course platform founded by MIT and Harvard University
- Offers online university-level courses in a wide range of disciplines to a worldwide audience free of cost.

IITBX

- A Massive Online Open Course (MOOC) built based on the edX-platform that went open source on June 1st 2013.

Basic Control Flow

CMS

- Handle accounts and logins. Create new course - Add lecture videos and quizzes.
- Publish course

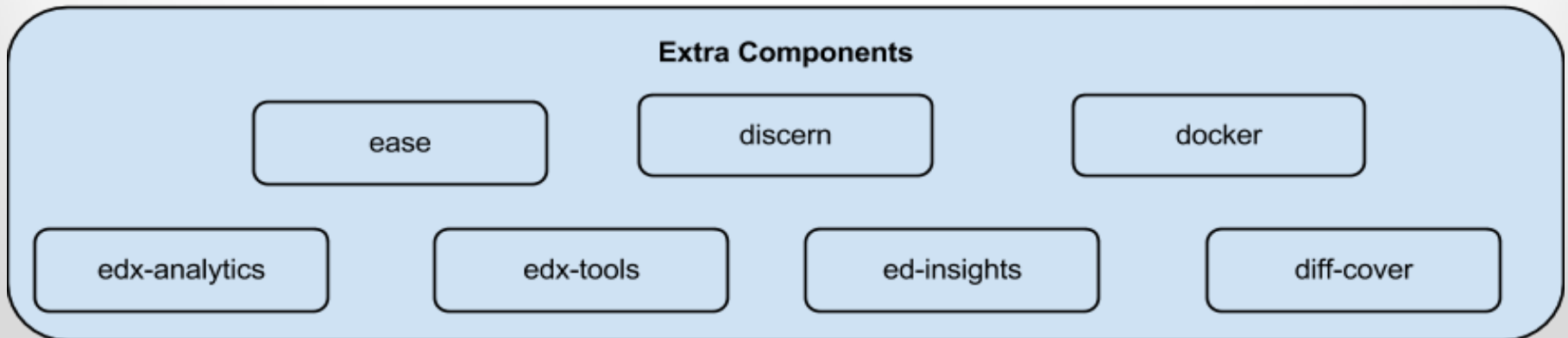
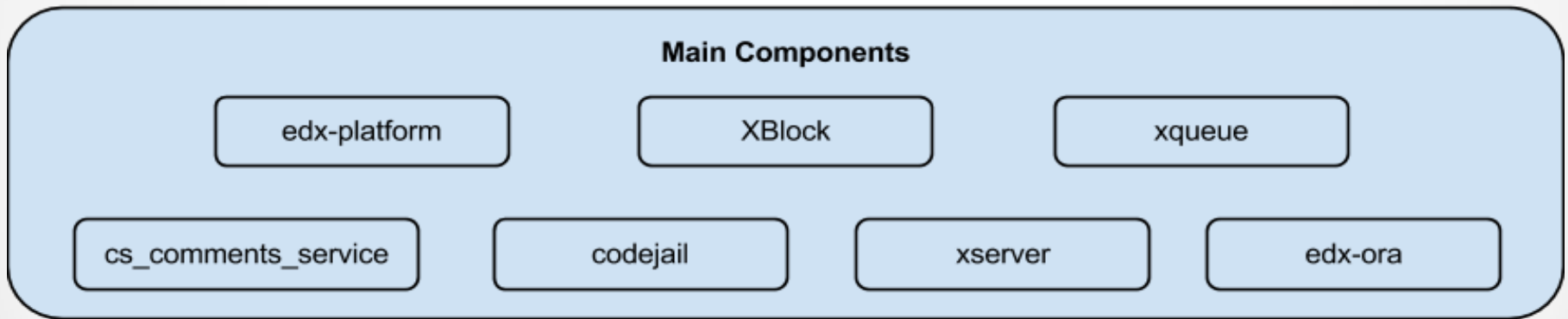
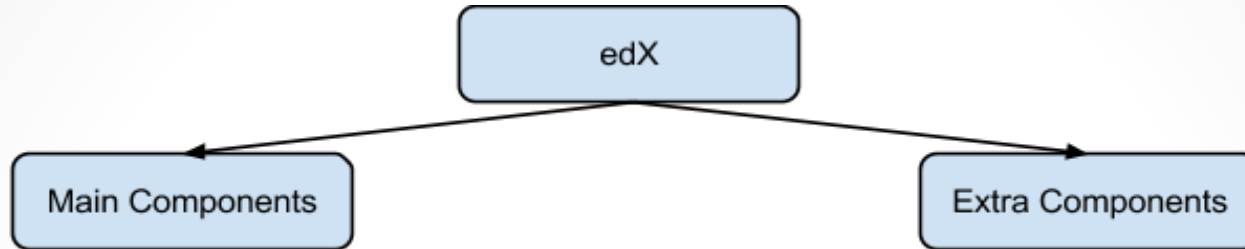
LMS

- Search for the published course
- Register for the published course

Course

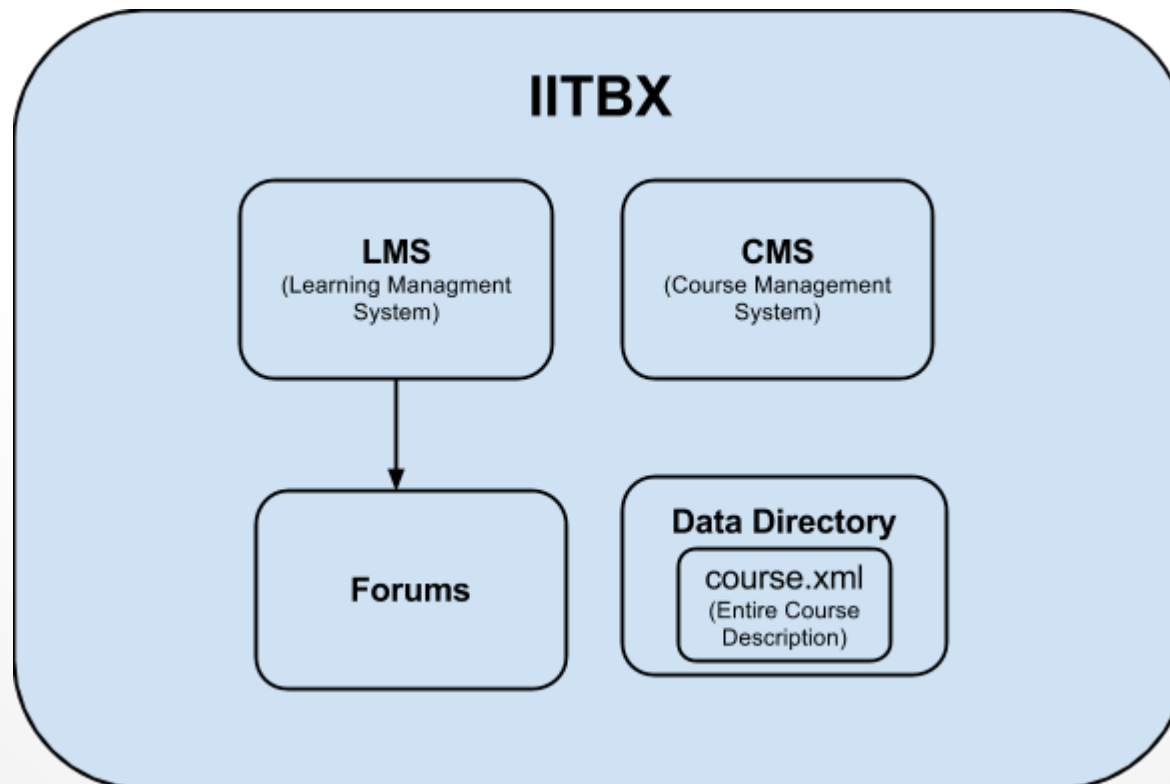
- Complete the course
- Take part in discussion forums

edX Modules



edX -> IITBX

- Consists of LMS and Studio(CMS)
- Uses django framework (python) and rake (software task management tool written in ruby) for installation.



LMS

- LMS – Learning Management System
- Student-side part of the platform
- It handles :
 - Student accounts
 - Lecture videos
 - Quizzes
 - Exercises
 - Assignments, etc.

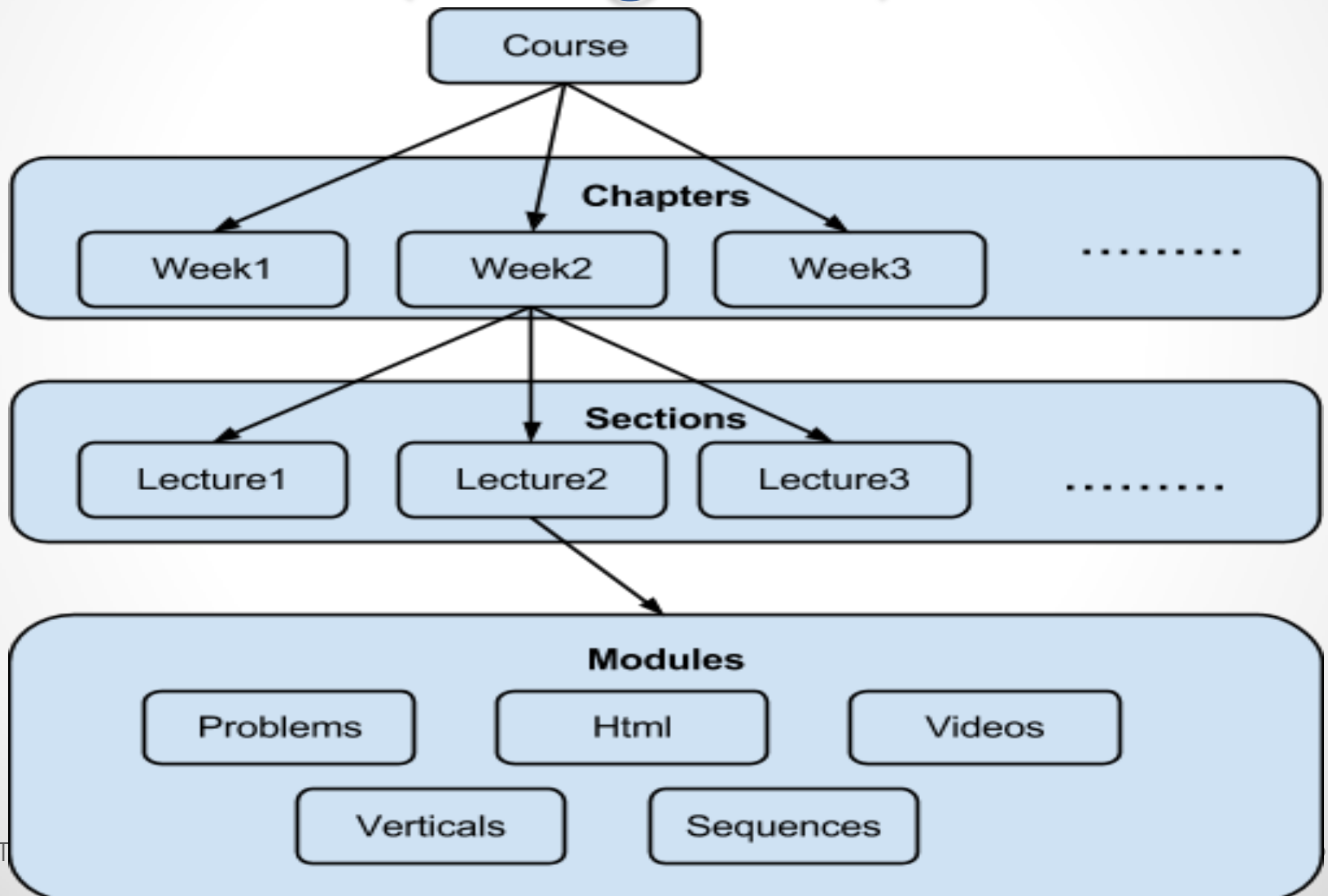
CMS

- CMS – Content Management System
- Instructor-side part of the platform
- It allows :
 - Instructors to see and modify their course.
 - Add lecture videos and content materials.
 - Update and add quizzes and assignments.
 - Update deadlines and reorder the course as per the instructor
 - And many more features to make the course as interactive as possible

Course Structure

- A course is divided into weeks.
For e.g. (“Week1”, “Week2”, etc.)
- Each week consists of several sections
For e.g. (“Lecture1”, “Quiz1”, etc.)
- Each section comprises modules
- A module can contain problem, html page, video or discussion.

Course Structure (Diagram)



Activities

- Designed template for MOOC website
- Successfully installed edX-platform on local machine.
- Modified edX platform to be run by ssh remotely
- Tested edX platform by adding courses and other components such as :
 - Codejail
 - Discussion forum
 - Mail service
 - Calendar

Project Take-Away

- Python (a programming language)
- Django framework
- MongoDB
- Sass (simply awesome style-sheet)
- Rake (software task management tool)

Future Plans

- Video tagging – Self note taking whenever the need be.
- Google calendar integration

Thank You