

DESIGN DEVELOPMENT

Since this was only the first large-scale overhaul of the BoxSand project, there will be several cycles of the project that will be spread out over several years and different development teams. This development team and this cycle mainly focused on developing long-term and overarching development goals and procedures for future project development. Additionally, this development team also created an initial proof of concept for site functionality demonstration and future feature integration

This first iteration of the project worked to meet the following criteria:

1. The website that will be developed must provide access to the OpenStax Physics textbook within the site itself. The Instructor must also be able to assign reading homework from the textbook for students within a course.
2. Provide a homework system within the site that allows an instructor of a course to provide questions with answers, Assign a value to the question and, assign a group of questions or a single question as an assignment to a course.
3. Provides a way for students to complete the assigned homework and reading.
4. An instructor must be able to generate a downloadable gradebook of student scores



PROJECT BOXSAND

A free place to do online homework and access textbooks.

Place for screen shot of the site

THE PROJECT

Our project aims to develop an open source Learning Module System that will be used by students to learn course material and complete online homework.

The project's goal is to provide Open Educational Resources with a primary goal to provide students and instructors with an all-in-one online learning environment. The main goal of BoxSand is to improve student performance by providing access to free and open source resources all in one location.

This includes links to

- Lector videos
- Homework and practice problems
- Simulations
- Open source textbooks
- Other potentially useful educational websites and more.

Project BoxSand aims to engage students and provide them with feedback while using the student's interaction with the site to track success and improve content.

Team Boxsand



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PROJECT BOXSAND: A BRIEF HISTORY

Project BoxSand was created in 2015 by Dr Kenneth Walsh of the Physics Department at Oregon State University as a way to provide a resource for his physics students where they could access the materials they needed for the class without requiring them to pay the rising costs for textbooks and online homework. Dr Walsh, with the assistance of many contributors, created a website where he grew a collection of resources for his students which includes everything from his own physics textbook to lector videos he created.

This fall is the first full year of deployment for this site. But the project did not stop there, he wanted to create a way for his students to interact with the site and complete their online homework. That is where we came in...

