

# Software Architecture

## INTRODUCTION

This document will be used for managing the design architecture of the Project.

### Purpose of the document

The purpose of this document is to:

- Identify various design approaches.
- Identify core modules of the system.
- Identify the best suitable technology.
- Identify database design
- Identify and UI design in terms of technical implementation.

### Objective

The objective for dd are to present the design and architecture of the entire project which would later be used by the developers during implementation

### Scope

The scope o extends to all the system of the project.

### System overview

Software systems used in the project are:

1. Moodle 3.6.2
2. PHP 7
3. Moodle lamp server
4. HTML
5. CSS
6. SQL

## 1. Architecture

### 1.1 System Architecture

This section provides an overview of the system architecture.

It also describes how the functionality and responsibilities of the system were partitioned and then assigned to subsystems or components.

Following diagram represents various components developed for the Application:

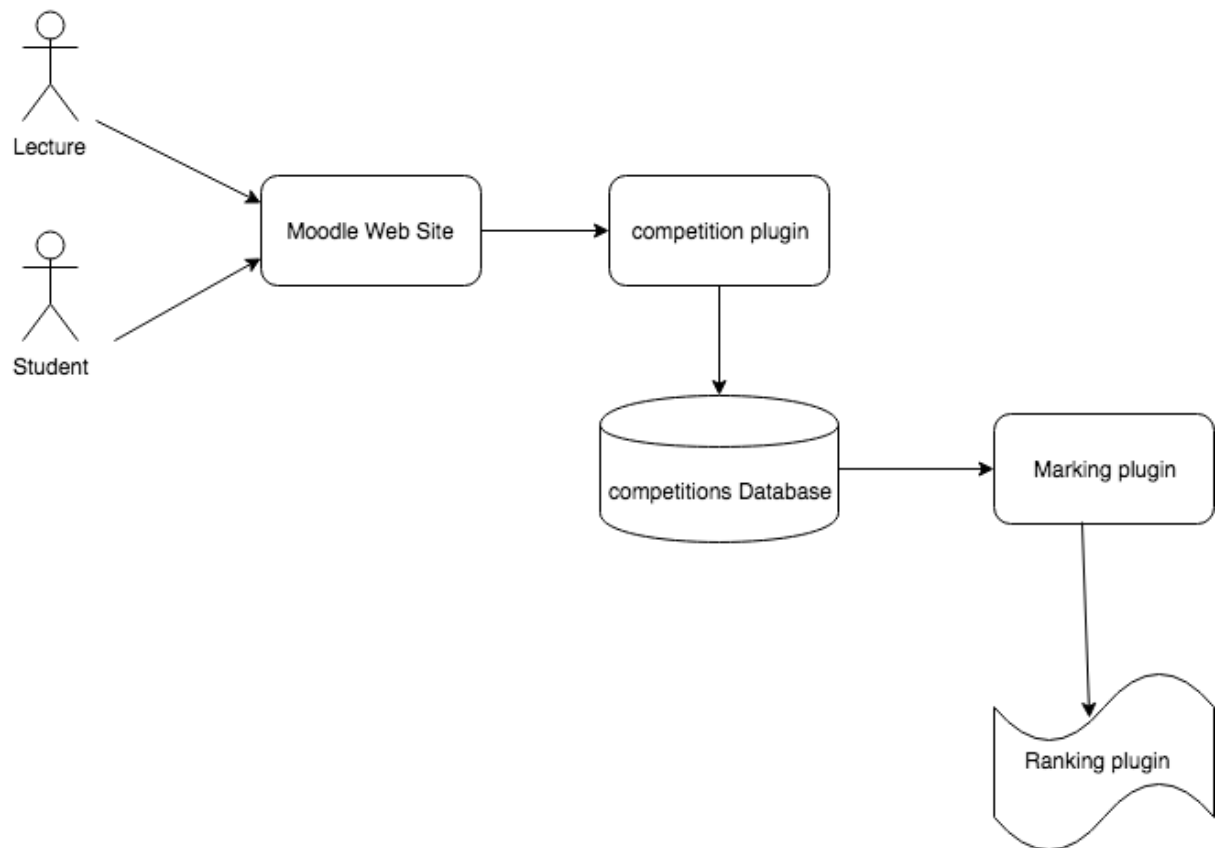


Figure 1: Deployment Diagram

## 1.2 Description of components

The Moodle application has the following components.

1. Logging
2. Home Page
3. Dashboard
4. Upload a File
5. Download a File

## 1.3 Login Page

Login page should provide user with Login and Password Field.

1. User is allowed to login with registered wits credentials
2. Forgot Password should navigate user to a page where student no or email will be required.
3. Remember me: on checking remember me option a cookie will be created on the user browser.

#### **1.4 Home page**

Once the user login he/she will be landed to the home page.

If user is a lecture he/she may be allowed to create tournament, assignments or competitions on the home page.

The lecture should also be able to update and delete created competitions.

If the user is a student, he/she should be able to participate in and view created tournaments and also be able to check the progress on the leader board.