**Wiki for Archotech**

**Logic Gate Plugin**

**Group Members**

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**Description**

Logic Gate plugin is a plugin that allows users to drag and drop logic gates onscreen and create a circuit that should match an output created by a lecturer.

**Features**

* A lecturer should be able to type a question into a text-box for the student to answer
* A lecturer should be able to assign an output to a question (ie the answer for the question)
* A lecturer should be able to choose a set selection of logic gates for the students to use in answering the question
* A student should be able to drag and drop logic gates onto the canvas
* A student should be able to connect logic gates via connecting wires
* The marker needs to be able to recognize the combination the student put down and compare it to the desired output that the lecturer assigned to the question
* The marker needs to be able to give feedback to the student as to whether their output and the lecturers output matched by returning “correct” or “incorrect”
* A student should be able to answer in any order and to change their answer before submitting
* A lecturer should be able to place optional hints to help the students in answering a given question

**High-level Architecture Overview**

Below is a diagram showing the set of principle designs for the plugin.



**Component Diagram**

Below is a diagram showing the components connected to the plugin.



**State Diagram**

Below is a diagram showing the different states the plugin could be in.



**Deployment Diagram**

Below is a diagram showing how the Plugin is run.



**Activity Diagram**

Below is a diagram showing how the students and lecturers make use of the plugin.

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**Installation**

Download the zip from:

latest (master branch) - [github.com/Jaredrhd/Archotech](http://github.com/Jaredrhd/Archotech)

Unzip it into the question/type folder, and then rename the new folder to “Logic Gate”, if it isn’t that already.