Programming Language Requirements

ID	Requirement	Source	Dependencies / Conflict
1	A user with limited/basic programming knowledge should be able to learn the syntax and write simple programs.	Analysis / Problem Statement	None
2	The syntax should be similar to modern common languages like Java, C# and Python.	Analysis / Problem Statement	None
3	A user must be able to write programs, without encountering compiling or syntax errors.	Analysis / Problem Statement	None
4	A user must learn to use the syntax based on a syntax table.	Analysis / Problem Statement	None
5	The compiler must be able to run on all OS, and on an Arduino.	Analysis / Problem Statement	None

ID	Requirement	Source	Dependencies / Conflict
19	The system must be able to run on a computer, with the resolution of 1920x1080.	Mobile/Desktop Analysis	None
20	Users must be able to sign the logbook on mobile and desktop environments	Interview	None
21	The website must follow Bootstrap Standards, to keep consistency throughout the system.	System	None
22	The database must do copy of a backup every 24 hours with a cron job, and be recovered by system administrators only.	System	None

ID	Requirement	Source	Dependencies / Conflict
23	All webpages must load under 3 seconds.	Mobile/Desktop Analysis	None
24	The user must be able to receive an SMS within 3 minutes from when the system triggers one.	System	None
25	The amount of lessons should leave the Calendar unaffected in loadtime.	System	None
26	An Instructor must be able to iterate through all students in the database in less than 3 seconds.	System/Interview	None
27	When initialising lessons in a course, it should be able to create 29 lessons within 3 secnds.	System/Interview	None

ID	Requirement	Source	Dependencies / Conflict
28	Only the developer must be able to develop and maintain the system.	Interview	None
29	The system must be able to recover a snapshot of the database, which was snapped every 24 hours.	System	None
30	The system should be able to run on the latest LTS version of GNU/Linux	System	None
31	The system should be able to be deployed and ran in an AWS environment.	System	None