Detailed Schedule

	Due Date	Development Plan	Test and Demonstration Plan
Jan	30	- Draft Webpages - Navbar, Home Page - Lesson Page - Manipulator Page - Creator Page - Explore Page - About/Contact us Page - User Profile Page	The user will be able to navigate through prototypes of the major pages of the website
Feb	6	- Continue making draft webpages - Account Creation Page - Login Page (Modal?) - Expression Tree Data Representation - Define data layout/class hierarchy - Expression Tree Rendering - Server - Rules for setting up/running - Working server that serves website files on localhost - Algebraic Action handling - Specify all the kinds of algebraic actions	- The user will be able to view a prototyped rendered expression tree in the manipulation window - Documentation will be written which defines the algebraic actions and their meanings. Initial implementations of these objects will be created. - User will be able to navigate the created pages of the website sent by a server on localhost
	13	- Expression Tree Rendering - Define data layout/class hierarchy - Algebraic Action handling - Expression Tree User Interaction - Expression Manipulator Page/UI - Server - Error Handling - Research and handling of security issues	- Basic algebraic actions will be implemented, and unit tests will be written which test applying the actions to expression trees. - JSON serialization/deserialization will be implemented on expression trees. - Some user interaction will be supported for manipulating expression trees.

	20	- Server - Set-up series of dummy files for website to use - Algebraic Action handling - Expression Tree User Interaction - Expression Manipulator Page/UI	- Expression trees will be more manipulatable - More algebraic actions will be implemented - Users can manipulate pre-made Expression Trees
	27	- Algebraic Action handling - Expression Tree User Interaction - Expression Manipulator Page/UI - Database - Define Schema - Rules for setting up - Set up AI - Determining Heuristic - Skeleton search function	- Expression trees will have all the basic algebraic actions implemented via the UI. - All algebraic actions will be implemented and integrated into the manipulation page. Finished unit tests written. - Unit tests for AI Solver will be implemented
Mar	**Break**	yay	yay
	13	- Set up AI - Work on Search function - Problem Generator - Log-in System - User Accounts - History Implementation - Use JS to put DB data on web pages - Database - Database wrapper class - Storage Handling	- Initial implementation of History bar will be done. - Some user-created problems/lessons can be sent from the server/database to the website. - Initial User Account system will be done - Unit tests for Problem Generator implemented - Unit tests for Database adding and reading files will be implemented

	20	● Database 　○ Delete Handling ● Set up AI 　○ Work on search function ● Problem Generator ● Log-in System 　○ Google Sign-In implementation ● User Accounts 　○ Bare bones implementation ● History Implementation ● Use JS to put DB data on web pages ● Expression Creator Page/UI	● History bar will be implemented and integrated into manipulator page ● The website will display user-created problems and lessons which it gets from the server/database ● Initial implementation of expression creation page will be done. ● Users can login with Google ● Users can make problems of varying difficulty. ● Preliminary AI will be implemented
	27	● Set up AI 　○ Work on search function ● Problem Generator ● Log-in System 　○ Connect to database ● User Accounts 　○ Implementation of website and database-facing features ● Use JS to put DB data on web pages ● Expression Creator Page/UI	● Users can choose a difficulty when using the Problem Generator ● Users can view stored data associated with their account ● AI search capabilities will be improved
Apr	**3**	● Expression Creator Page/UI ● Tutorials 　○ Implementation ● Spiffy up webpage design (CSS) ● Finalize Website design ● Set up AI 　○ Complete Search function ● Deployment 　○ Research options	● Expression creation page will be done. ● Initial Tutorial pages will be done ● AI search capabilities will be improved ● Web page design will be updated
	10	● Tutorials 　○ Design of Content	● User can ask for help on the manipulation page and receive an answer ● AI will be finalized

		● Spiffy up webpage design (CSS)
		● Finalize Website design
		● Work on AI
		  ○ Testing/Training
		● Deployment
		  ○ Set up
			● Web page design will be updated
			● Preliminary tutorials will be completed

	17	● Tutorials
		  ○ Testing and Review
		● Spiffy up webpage design (CSS)
		● Finalize Website design
		● Deployment
		  ○ Testing
			● Users can use the tutorial system
			● Website is deployed and viewable

	24	● Tutorials ● Spiffy up webpage design (CSS) ● Finalize Website design ● Deployment ○ Bug fixes	● Web page design will be finalized ● Website is finalized