**Database Technical Guide**

**For**

**“Reaching For English”**

Version 1.0

**Developed By:**

Daric Sage

Jared Regan

Jordan Lambert

Justin O’Neel

Table of Contents

[Environment 3](#_Toc514240017)

[Table Descriptions 3](#_Toc514240018)

[Countries 3](#_Toc514240019)

[Grades 3](#_Toc514240020)

[Topics 3](#_Toc514240021)

[Country\_Grade\_Relationship 3](#_Toc514240022)

[Country\_Grade\_Topic\_Relation 3](#_Toc514240023)

[Lessons 3](#_Toc514240024)

[Credentials 3](#_Toc514240025)

[Survery\_Url 3](#_Toc514240026)

[Users/Usage: 4](#_Toc514240027)

[App 4](#_Toc514240028)

[Website 4](#_Toc514240029)

[Implementation 5](#_Toc514240030)

# Environment

* SQL Database
* phpMyAdmin
* run on smarterasp.net

# Table Descriptions

Descriptions of the tables used in the database:

## Countries

Represents a ‘Country’ entity. The ‘cid’ column is the Primary Key that is the Country name.

## Grades

Represents a ‘Grade’ entity. The ‘gid’ column is the Primary Key that is the grade number.

## Topics

Represents a ‘Topic’ entity. The ‘tid’ column is the Primary Key that is the topic name.

## Country\_Grade\_Relationship

Represents a ‘Country’ and ‘Grade’ relationship. The ‘cid’ and ‘gid’ columns are the Primary Key which are also Foreign Keys from the ‘Countries’ and ‘Grades’ tables.

## Country\_Grade\_Topic\_Relation

Represents a ‘Country’ and ‘Grade’ and ‘Topic’ relationship. The ‘cid’, ‘gid’ and ‘tid’ columns are the Primary Key which are also Foreign Keys from the ‘Country\_Grade\_Relationship’ and ‘Topics’ tables.

## Lessons

Represents a ‘Lesson’ entity. The ‘cid’, ‘gid’, ‘tid’ and ‘lid’ columns are the Primary Key which ‘cid’, ‘gid’ and ‘tid’ columns are also Foreign Keys from the ‘Country\_Grade\_Topic\_Relation’ table.

## Credentials

Represents a ‘Credentials’ entity. Used for secure log in to the website.

## Survery\_Url

Represents a ‘Url’ entity. Used for survey links.

# Users/Usage:

## App

The application uses a ‘default user’ account. It only has GET privileges. The backend is accessed through PHP files for each of the following tables: Countries, Country\_Grade\_Relationship, Country\_Grade\_Topic\_Relation, and Lessons. This allows the app to get the data required to function. It does not require any inserting, deleting, or updating.

## Website

The website uses an ‘admin user’ account. It has GET, INSERT, DELETE, and UPDATE privileges. The backend is accessed through an ASP.NET web project. The website uses all functionality since it is the controller for the content that goes on the app. It will add new data, delete data, update existing data.

# Implementation



\*see sql files for the exported structure of the database\*