Geo Quiz

Problem: Over 90% of the population could not pass a geography quiz! When we were tasked with answering questions about capitals and flags we failed miserably as well.

Address the problem: We wanted to create software that would be educational and entertaining while helping adults pass basic geography questions.

Application: We have built a terminal application called GEO QUIZ that will test users on capitals and flags of countries. The purpose of this application is to develop a person's geographical knowledge.

Function: The basic functionality is a quiz that tests a user on their ability to match countries with both flags and capital cities

User experience:
- Sign up for an account with your email and request a username.
- Decide which quiz you want to take between capitals and flags
- Determine a level you think you are between: beginner, intermediate and expert
- Start the randomized quiz and answer 10 questions
- Get scored on those ten questions
- Keep taking as many tests and you see fit (watch out it's addictive)!
- Get the results of all your scores to see how good you did

Future Features:
Would ideally be structured to be scalable and more feature rich, so that it would be easy to:
- Add more quiz types
- Add more countries to the array and additional attributes
- Store user sessions so that they can create an account and access their data at a later date
- Email scores to users
- Add language translation - change names of places in to native languages
- Allow users to choose the number of quiz questions in a quiz
- Pull data from an external source like an API, csv etc

Architecture:

Main.rb
> Set up account and call the main menu

Menu.rb
> Set up main menu and sub-menus
> Colorize gem added

Quiz.rb
> Quiz class
> attributes : name, score?, array of countries #
> Methods required:
> Set up different levels
> Set up different quiz types and questions for each quiz class
> needs to be able to ask questions and validate answers drawing on country arrays
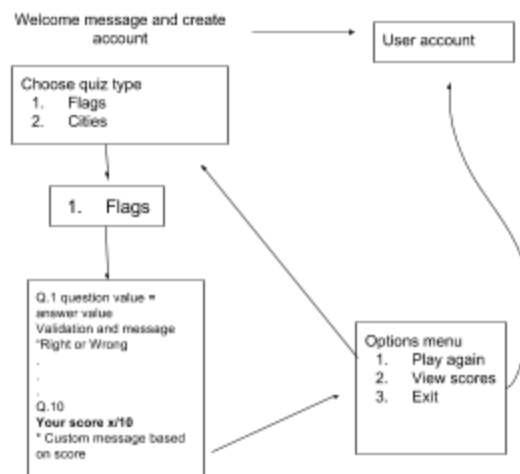> Progress bar gem added

Country.rb
> attributes : Country name, flag, capital, country code, level
> Need to store all the countries in a country array so can pull out info into quiz

Account.rb
> Name, email, scores, score
> Use to display personalized messages in the system and hold scores

Technical Issues:

- How to manage coding between the group members, how we would share, edit, add to the code and compare previous edits.
- Allow user to enter their answer in either format for country e.g. United States or America.
- Spelling errors will/will not result in correct answer
- Issues with finding flag emoji's, OS update required for Mac, download extensions for Linux, emojis would still only appear in full detail in terminal on Mac OS.

Presentation - Roles:

David: Introduction of Quiz Game
Andrew: Walk thru of the game in terminal
Cholena: Description of the code necessary to accomplish the game
Michael: Talk about technical challenges and conclusion