

Title: CS Brain Training

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Methodologies: Version Control, Agile, pair programming, peer code reviews, TDD , Static Analysis, Documentation

Project Tracker: <https://trello.com/b/d1DckXm7/cs-brain-training>

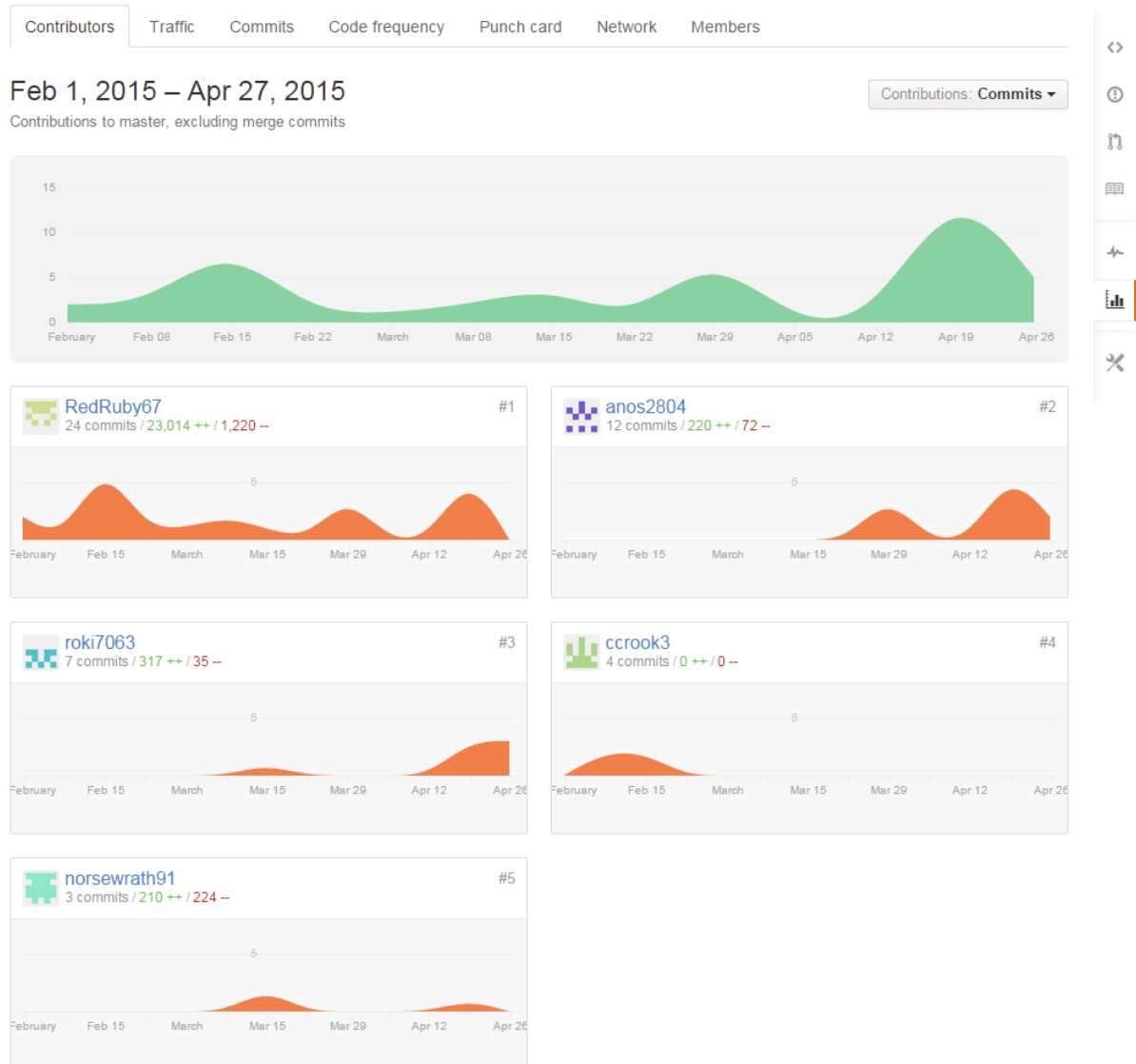
Project Plan:

The screenshot shows a Trello board for 'CS_Brain_Training'. The board is organized into four columns, each representing a different type of requirement. Each card in the columns has a progress bar at the top, indicating the status of the requirement.

- Business Requirements:**
 - As a software developer, I want to be able to track the overall demographic information of the app's users so that I can better know what adjustments to make to suit the needs of our users.
 - As a software developer, I want to be able to include ads in the UI so that I can make money.
- Functional Requirements:**
 - As a developer, I want to easily store and retrieve the progress and scores of the user so he or she receive feedback.
 - As a developer, I want to be able to register new users to the application with a simple "Sign-up" interface so that I will be able to provide each user with his or her own unique ID to record and track his or her progress.
- Non-Functional Requirements:**
 - As a developer, I want the application to be compatible for use in all Android phones so that I can broaden the market for the application.
 - As a user, I want the app to be light on battery consumption and to not consume battery when not in use so that it is low maintenance.
 - As a question-writer, I want a simple multiple-choice question editor so I can easily add new questions and edit old ones.
 - As a user, I want the app to open up with my saved data already loaded so I don't have to wait again when I view my results.
- User Requirements:**
 - As a user, I want to be able to access the app without having to login every time so I don't have to make multiple accounts or worry about retrieving my password.
 - As a user, I want to be able to access and track my progress so that I can see how well I've done so far.
 - As a customer, I want at least ten varied problems/questions so I feel like the app fulfills its purpose.
 - As a customer, I want to be able to access past and new problems so I can review more efficiently.

VCS: <https://github.com/RedRuby67/CS-Brain-Training>

VCS Screenshot:



Deployment:

https://github.com/RedRuby67/CS-Brain-Training/tree/master/Project_Writeups/Deployment

(Import project into Android Studio and run or install Andy the Android Emulator from <http://www.andyroid.net/> and run app-release.apk file)

Initial vs. Final Product

The final product did not vary significantly from the initial product proposal. A majority of the differences manifest themselves in functionality that would improve scalability that didn't make it into the final product. Here are some of the differences:

- Initial product called for SQL database, final project used local SQLite database
- Initial product called for being able to submit multiple choice questions for other users to answer
- Initial product had Facebook module login, final project had local SQLite login
- Final product included a page to review concepts from answered questions, whereas the initial product did not
- Initial product reserved space for ad placement, final product did not support ads