
Gamification of BookBrainz Submission System

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Personal information

Nickname: Quora/Heshoots

IRC nick: Quora

Email: m@xprettyjohns.com

GitHub: heshoots

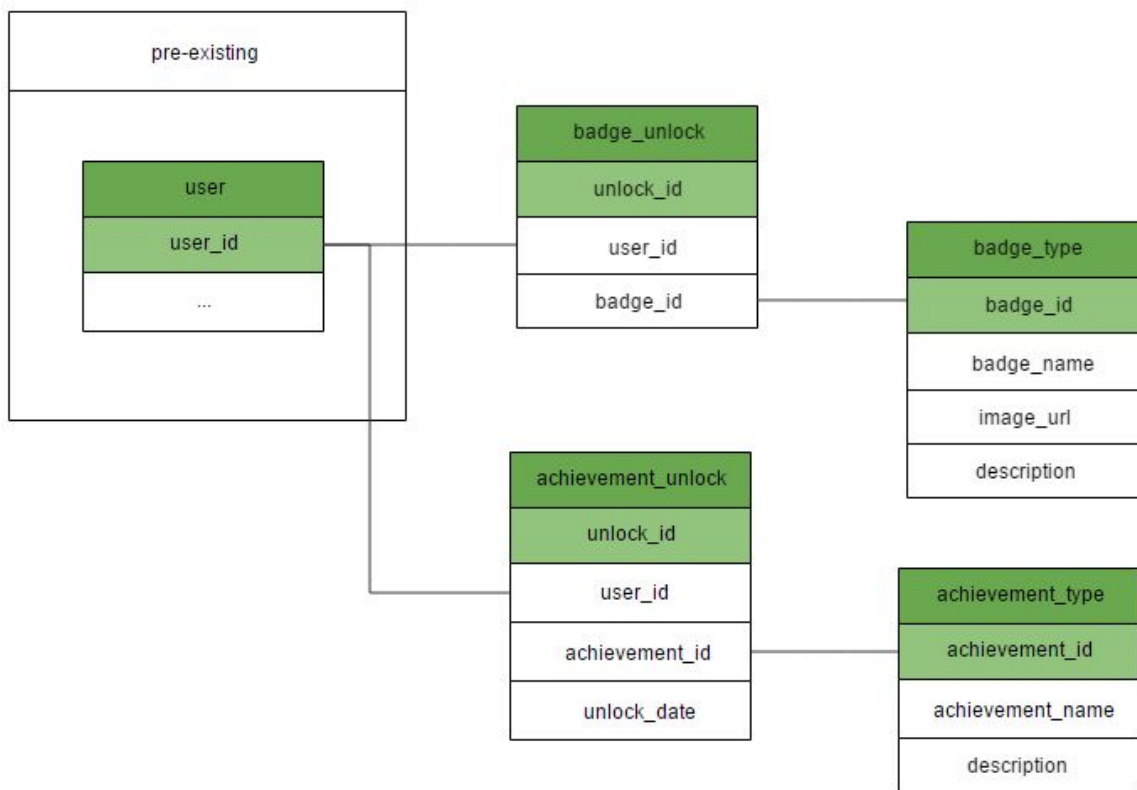
Proposal

My proposal is based on the existing idea provided for GSoC provided by BookBrainz to build a gamification system in order to encourage users to contribute regularly and make use of all the tools provided by the website. This can also be used to determine the most active members and provide them with accolades for contributing to the project. Care will have to be taken to ensure the achievements are encouraging positive behaviour in the community such as high quality submissions and community engagement and not rushed contributions or spamming other users.

Some example achievements that may be worth adding are:

- Streaks, encouraging users to come back for multiple days and continue contributing.
- Providing good content, have content recognised by other users with higher reputation and greater understanding of style guidelines to encourage this behaviour.
- Add to another user's contribution which aids in keeping the database up to date and following style guidelines provided,
- Add different content types, gain achievements for each type of content.

I think these achievements could be used to create a badge system, such that completing a group of similar achievements will earn the user a badge that can be displayed on their profile or used as a profile picture. These could also be levelled up by continuing to unlock further achievements in the group.



This change will require an extra four tables to be added to the database, the schema for this is shown above. The change will also require system logic to determine if an achievement was unlocked, these will need to be implemented throughout the site so knowledge of most of the systems will be required to implement these properly. Most of the ideas I have thought of will be based upon a check when forms are submitted. Others could be derived based on a schedule, this could be a “top submitter of the day” achievement, where the contributor with the most high quality submissions is determined at a set time and given the achievement. Different notification methods will need to be determined for these two paradigms. [1]


quora

Profile

Revisions

Basic Info

 Edit Profile

Email	
Type	Editor
Reputation	0
Joined	Fri, 18 Mar 2016 16:38:17 GMT
Last Active	Sat, 19 Mar 2016 17:15:09 GMT
Bio	-

Stats & Badges

Total Revisions	3
Revisions Applied	3
Revisions Reverted	0



5 day Streak
contributed 5 days in a row
unlocked: 10th january 2016



top daily contributor
top contributor for the day
unlocked: 5th january 2016



Developer
Active developer on the
BookBrainz project
unlocked: 11th january 2016

Above is a mockup of how I envision badges to be implemented on the user profile page, I would like to keep it relatively simple looking and keep with the style currently maintained on the site.

Timeline

Community bonding period (April-- 22nd May)

Browse the relevant sections of code to my project, determine relevant differences between Sqlite and Postgresql and get to know the mentors of this project.

First-Term (Late May- Late June)

I will have completed my summer examinations and will be ready to start work on the project, I will begin by getting into the source code and determining where I believe changes will need to be made. To begin coding I will set up database schema (above) and interface design to allow for achievements and badges to be implemented. Unit testing for these will be added as I go to ensure they work as expected when added to the live project. Potential to begin adding basic achievements (fill out profile, submit a contribution) if I have time.

Mid Term

Work with mentors to produce evaluation for GSOC.

Second term (Late June- early august)

Begin adding more advanced achievements, checks at a specified time and levelling to the badges to allow people to work towards reaching better badges and continue writing tests. Potential to add Discourse and Mozilla Open Badges integration along with a "Top Badges" page and editor leaderboards.

Final Week (early august - mid august)

Refactor and tidy code, write additional tests and prepare sample code for the final evaluation.

After GSoC

Continue working with the BookBrainz project in my free time.

Detailed information about yourself

I am an undergraduate computer science student at the University of Bristol, I learned about GSoC after a representative visited our university, and have been getting started on setting the environment up and submitting pull requests to make doing so easier for new users.

Tell us about the computer(s) you have available for working on your SoC project!

My main work pc is an entry level gaming system (AMD 6300, AMD HD7770) I built before starting university. I am hoping to upgrade to a smaller case and new graphics card over the summer. I also use a trusty old Macbook from 2009 to do some work on the go.

When did you first start programming?

I started programming mainly when I began my course a year and a half ago, but had worked on a statistics tracker for League of Legends and some web development before then.

What type of music do you listen to? If applying for a BookBrainz project: what type of books do you read?

I love pretty much any genre of music, i'm into Taylor Swift (20244d07-534f-4eff-b4d4-930878889970) at the moment along with The Knocks (9157ad72-3893-47da-986a-0aa7313f7429) and Kendrick Lamar's new album (c002fef6-2b03-4d98-ac41-39d45bb2d95c).

As for books I love cheesy young adult fiction, I really enjoy The Mortal Instruments series by Cassandra Clare (fc1bc139-60a7-44b6-adeb-ba76f0cc39e2) and Freakonomics books (564c5828-bc43-4d97-99f7-a1f27eb95fc6).

What aspects of the project you're applying for (e.g., MusicBrainz, AcousticBrainz, etc.) interest you the most?

BookBrainz interests me since I really like the idea of keeping data open and free for the public to use, I think the project could be interesting for keeping track of books you have read and potentially creating communities between people interested in similar titles.

Have you ever used MusicBrainz to tag your files?

Yes, I used Picard and it worked really well.

Have you contributed to other Open Source projects? If so, which projects and can we see some of your code?

I have not contributed to other open source projects since I haven't really worked on large projects up until now and didn't feel confident in my abilities. This year we have worked with a client to produce a large group project and I think this has encouraged me to collaborate on this type of project.

If you have not contributed to open source projects, do you have other code we can look at?

The latest project available publicly is a visualisation of data that has been made available by our local council. The code for this project is available here:

<https://bitbucket.org/uobkappa/data-dome/src/9b89b991e2a9?at=master>

This is written in C# using Unity. I have learned C#, SQL and the Unity engine during this project and worked with a team of four other students to build a substantial project.

What sorts of programming projects have you done on your own time?

Mostly web development based prototypes to learn Node, Django and Electron.

How much time do you have available, and how would you plan to use it?

I plan on having 8 hours per weekday available to work on this project making up the 40 hours a week to work on this project

Do you plan to have a job or study during the summer in conjunction with Summer of Code?

Should I be accepted I do not plan on taking on further employment, And should I pass my exams as I am on track to do I would not need to spend this time doing studying. My only plans over the summer is a weekend trip to a LAN party which should not effect my project.

Sources

[1] Paradigms of achievements: <http://stackoverflow.com/a/2601598>
