Enhancement Control and Management Tools for a website

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ABSTRACT

The project is to enhance the Bookbranch web for a better performance and stability with a more user friendly experience. The older version of Bookbranch web has the idea that make every one can create story together by continuing other people’s work. The new version of Bookbranch web express the idea of this website explicitly to the user with improvements on the website’s functions along with some instructions. Also some new features is added to make the website a complete reflection of the idea.
1 Introduction

The last version of Bookbranch web has several places can be improved.

1. If user arrive this website the first time, they may not understand the idea behind it.
2. Chapter prefix will be add automatically, it is sometimes confused by users.
3. After the story is created, it cannot be changed. Spelling mistakes can be an annoying problem.
4. Stories does not differentiated by categories, it makes user difficult to find the type of story they like.
5. User’s header is stretched and the upload limit is too small.
6. After the story has too many chapters, the server needs to generate many SQL for parent fetching, it is too inefficient.
7. Word count needs to be added otherwise user do not know if they achieved the requirements.
8. Stories can not be share to other platform make it difficult to gain new user.
9. Report a story need to have a reason, and it is needed to see who is reporting the story in case some one just report for fun.
10. In case someone forget their password, a password reset function need to be developed.
11. Old version can only save title and content, need to be solved to make the writing process more fluent.
2 Thesis

2.1 Use case

There are some new features has been added to the website.

1. View branches: View number of version of the next chapter according to the current chapter.

2. Create category: Before creating a story needs to add a category.

3. View category: View story according to story’s category.

4. Display category: Category will be displayed inside each story.

5. View continue: View story which is a continue of other story according to creating time.

6. Modify story: Modify stories they created if the story does not have a child chapter.

7. View tips: View tips that can guide user through the website.

8. Social account login: Login through QQ or Weibo.

9. Share story: Share story to Qzone or Weibo.

10. View level: Level is assign to each user according to number of likes they have, it can be viewed in user’s information.


12. Reset password: User can reset their password.
2.2 New use case implementation

The new version is the extension of the old version and it is still using the Laravel framework. Below is each use case’s implementation.

2.2.1. View branches

Branches represent how many version the next chapter has, click it will go to the next chapter.
In this case, the next chapter has two different versions, the first version has one version of next chapter, the next version has no next chapter. If the mouse is over the Branches with no next chapter, the above tips will be shown.
2.2.2. Create category

In the new version every story introduction needs category, the chapters that is continuing this story will have the same category.
There are ten categories, each story can only have one category.
2.2.3. View category

All
Adventure
FanFiction
Fantasy
History
Horror
Mystery
Science Fiction
Speculative
Love
Others

User can select category in Book, Continue, Week and Month options. All option represent view all story without category selection.
2.2.4. Display category

Each story will have a category on the upper left displaying the category of this story.
Inside the story, the category will only be shown in the above introduction.
2.2.5. View Continue

This feature allows users to view the recent continued chapter, this feature is for users who want to see the current updated story instead of just recent story introduction and week rank or month rank.
2.2.6. Modify story

If a story is created by the user and it has no next chapter, then a Modify option will be displayed beside the Branches.
Above is for the modification of a Normal chapter, If it is modifying a story introduction, the user will be able to change the category.

2.2.7. View tips

There are three tips, one is for the user who come to this website for the first time. It express how the website displays story in this different way and how to view story correctly in Bookbranch web. If the user visit the root domain of this web site, the first tips will be shown in the pop up way.
After the user registered an account, it will automatically login the user and show the second tips which is for user to understand what are the new features that an account has.
When the user first enter the writing or continuing interface, the tip for writing will be shown.
According to the tips, user can view those tips anytime in about option on the navbar.
The About BookBranch is list with my contact email for user who wants to give some of their advice.

2.2.8. Social account login

User can login the website by connection their social account, it can avoid the tedious process of registering an account, enter email, password number. It is only developed for Chinese version since only Chinese version is on line. But for English version the effect is the same.

After clicking Weibo Login, it will lead to a page to let you enter the account and password for your Weibo.
For QQ the effect is similar.

After entering the right account and password, user will be redirect to the website with a new account has the name of his or her social account.
2.2.9. Share Story

User can share their story to Weibo or QQ after expanding the content of a story.

The share option is in the bottom right.
Share from BookBranch 关于故事《黄昏街》请求帮助构思剧情
http://104.236.175.206/story_share/232
Share from BookBranch 关于故事《黄昏街》请求帮助构思剧情

分享到QQ空间和朋友网

还能输入120字

说点什么吧，您还可以@QQ好友和朋友哦～

分享到微博 分享到私信

Share from BookBranch 关于故事《黄昏街》请求帮助构思剧情

已选择0张，还能选择1张 http://t.cn/Rt7iZ5Z

来自互联网

赞一下这个内容 公开 分享
2.2.10. View Level

In new version every user will have their level, the level is rated by number of like they have. User can view their level by click Information in user’s option on navbar.

Also users’ level will be shown in each of the stories their wrote.
关于故事《黄昏街》请求帮助构思剧情

诸位好，我是来请求诸位帮忙的，在书栈上我写的一个故事《黄昏街》已经写了“序”和“第一章”剧情推进到了店里的人给名叫白面的戴面具鬼女孩讲一个关于毒子花的白城堡里发生的故事。所需要的帮助就是这个白城堡中的故事。此故事中的任何东西，人设、对话、情节大概，灵感，任何都需要，诸位给我关于此故事的建议，提供帮助。哪怕再小都是弥足珍贵，我将这并不是我写的一个故事而是大家

无题

写这故事就如同牵线木偶一般，不知什么时候就会无力地倒下去了。时间也不多，剧情大概还没理清完，续写就完了。

第一章 命运

“小宝，吃饭了。”妈妈和蔼的声音从屋里传了出来。我和妈妈吃完了晚饭。桌上是我最爱吃的南瓜饭和豆腐。一个被我选中的，我迫不及待地拿起筷子大快朵颐。“慢点吃慢点吃，别噎着你。”“小宝，你鼻子上沾了灰，别动，我帮你擦擦。”妈妈的手轻轻地拂过鼻尖，仿佛带过一股轻微的电流。吃完饭后，妈妈收起碗筷对我说：“家里的米面没有了，一会儿

Level will show in user page as well.
2.2.11. Specify report reason

The old version do not need user to specify why they report certain story, and it is improved in the new version.

A pop up will request a report reason.

For administrator, they can view specific reason and who has reported the story.
If a user is reporting story for fun, his or her account can be blocked as well.

**2.2.12. Reset password**

User can click Reset password on login pop up to set email to their mail box to get the reset link.

After the link is sent, open the mailbox and click the reset link to reset the password.
2.3 Detail improvement

2.3.1. Save function

The old version the save function will only save for title and content, the new version include story category and chapter type so user will not worry about entering the wrong category or chapter type when continuing writing with their save content.

Considering some user will not click the save button, the save function is set to automatically trigger itself if user does not writing anything within 10 seconds.

2.3.2. Image upload

The old version the header of user sometime will stretch to a different proportion. The new version solved the problem and make the upload limit into 2M, the old version is only 200k.

2.3.3. Recursive SQL fetching

One of the viewing function is fetching the story line, once user click a chapter, it need to fetch its parent and its parent’s parent all along to the root. In old version it will continuing generate SQL query, means if it is chapter 100 then it needs to generate 100 SQL. In the new version the problem is solved by two lines of SQL. It is using hierarchical data in MySQL: parents and children in one query.[1]
The $result is the result of recursively fetching the parent id until the parent id is equal to the root id. After the related id is fetched, use another SQL query to get corresponding stories and order them by chapter number. It save a lot of pressure from the server.

2.3.4. Word count

New version has word count function for writing and making comment.
2.3.5. Like and Unlike tip

Like button has been added with a tip for user to understand when they have mouse over the button.

In old version login and register is displayed in a single page, it make navigation a little bit difficult, so the new version change it into pop up.
When a user does not have an account, he or she click any button that require an account will pop up the register block.

**Conclusion**

This paper is focusing on the improvement of the BookBranch web in the aspect of functions, efficient and user experience. It has developed into a complete production and in the future it can develop into a place for people to communicate about stories and their imagination.
References

Appendix

Minutes of the 1st Project Meeting

Date: Wednesday, 8 June 2016

Time: 5:00 PM

Place: Room 3512

Attending: Prof. Rossiter, Jack Wang

Absent: None

Recorder: Jack Wang

Approval of minutes

This is first formal group meeting, so there were no minutes to approve.

Report on Progress

Discussed the improvement

Discussion Items and Things To Do

How to improve

Meeting adjournment

The meeting was adjourned at 5:20 PM.

Minutes of the 2nd Project Meeting

Date: Friday, 10 June 2016
Time: 5:00 PM

Place: Room 3512

Attending: Prof. Rossiter, Jack Wang

Absent: None

Recorder: Jack Wang

Approval of minutes

The minutes of the last meeting were approved without amendment.

Report on Progress

Previous improvement has been programmed

Discussion Items and Things To Do

Discuss other improvement

Meeting adjournment

The meeting was adjourned at 5:20 PM.

Minutes of the 3rd Project Meeting

Date: Monday, 13 June 2016

Time: 3:30 PM

Place: Room 3512

Attending: Prof. Rossiter, Jack Wang
Absent: None

Recorder: Jack Wang

Approval of minutes

The minutes of the last meeting were approved without amendment.

Report on Progress

Discuss further ideas

Discussion Items and Things To Do

Extends some functions

Meeting adjournment

The meeting was adjourned at 3:50 PM.

Minutes of the 4th Project Meeting

Date: Friday, 29 July 2016

Time: 2:30 PM

Place: Room 3512

Attending: Prof. Rossiter, Jack Wang

Absent: None

Recorder: Jack Wang
Approval of minutes

The minutes of the last meeting were approved without amendment.

Report on Progress

Discuss improvement

Discussion Items and Things To Do

Extends some functions

Meeting adjournment

The meeting was adjourned at 2:50 PM.