Translation Project
Final Individual Report
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Abdullah Mashabi

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• Summary of Significant Work:

I was assigned to work in the translation project in the front-end team. Almost in the first three weeks in the semester, my team and I had no clue what was going on in the project. The project code was very poorly commented, and it was very hard to read, especially for some of us who do not understand one or another programming language well. First, we investigated on the project\(^{1}\) and look into the code\(^{2}\) to help us to keep moving forward throughout the semester. We were adding headers in each file in order to understand better the structure of the project. We had also to sit down with the back-end team\(^{3}\) to discuss on how we all can move forward and divide the work. Therefore; my first deliverable ticket was to find bugs and error\(^{4}\). I was reading from the given project specifications documentation and trying to comments the things that either not working or needs some improvements.

\(^{1}\) 1st ticket.
\(^{2}\) 2nd ticket.
\(^{3}\) 3rd ticket.
\(^{4}\) 4th ticket # 482.
Later, my team and I divided the work for that week based on the functions that needed to be re-checked. I was assigned to work on the function of new source entry since the new source entry submission was throwing an error every time when a new source was being entered. So, I worked in `translation/texts/view.py` and fixed the bug by editing couple lines were unnecessarily used, and then added a return to get the entered data to the correct form. The page of new source entry is submitting entered source fine.

Moreover, I was then assigned to check the function of the target text that need to be verified. After looking into the code in `translation/translation_mockup/views.py`, I found out that the functions of the target texts page were actually working fine, but in order to view or verify the new entered target text, a different user has to do this.

Also, I was assigned to add the needed functionalities in the new source entry page. I worked in two files `translation/texts/forms.py` and `translation/texts/templates/texts/enter_new_source.html`, and I used the project specifications as guidelines to set up the conditions in the page to make sure it meets the needs and works well. Therefore, I did the following:

- Added tooltips to provide extended information on the terms where user has to enter an input.
- Added inline default labels to help the user to understand how the data should be formatted.
- The textarea box was deleting the entered source data every time an error occurs. So I fixed that by creating a new textarea box and linking

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5 5th ticket # 505  
6 6th ticket # 506.  
7 7th ticket # 546.
to the page. Therefore, even if an error occurs, nothing gets deleted. The user just needs to fix what he/she is missing in the form and resubmit it.

- Added conditional statements to check the following:
  ■ Check if the number is numeric.
  ■ Check if the number is 0.
  ■ Check if the number is out of range. For example in set number, only up to 5 set are allowed.

I added a different error message for each error which may occur, so the user will know why that error has occurred.

Similarly, I was also assigned to **add the needed functionalities in the new exam record entry form**. I worked in two files as follow; `translation\records\forms.py` and `translation\records\templates\records\enter_exam.html`. I also used the project specifications as guidelines to set up the conditions in the page to make sure it meets the needs and works well. So I did the following:

- Added tooltips to provide extended information on the terms where the user has to enter data.
- Added default inline numbers to help the user to understand how the data should be formatted.
- Added conditional statements to check the entered input in the exam number and year number:
  ○ Check if the number is numeric.

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8th ticket # 581.
o Check if the number is 0.
o Check if the number is out of range. For example in exam the number must be five a digit integer.

Added a different error message for each error which may occur, so the user will know why that error has occurred.

By that time, my team and I were working to make sure that the foundation in the project was built and working, we then can add more functions as we are moving forward. Thus, I was assigned to remove the reviewing structure after creating a source text⁹, so once the new source text is entered, it will not wait for a second person to review it and approve it. It will only be saved in the database.

I worked in \translation\texts\views.py where I added a header to describe what functions I changed. In addition, I worked to remove unnecessary reviewing functionality for workflow page¹⁰, so only the working functionality stay in the main page. I worked in \translation\translation_mockup\templates\home\workflow.html, where I also added a header to describe what functions I changed and where.

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⁹ 9th ticket # 593.
¹⁰ 10th ticket # 607.
Furthermore, I was assigned to work in the new administration page. I worked to add the needed functionalities in the groups section in the admin page. Now, admins are able to view the existing groups, create new groups, edit the existing groups, and remove any of the existing groups as needed. For that, I’ve created a new html page where I created the above functionalities.

This html page I’ve created is translation/cegroups/templates/maint_groups.html. I’ve also worked on three files in order to make those functions work properly translation/cegroups/templates/index.html, translation/cegroups/urls.py, and translation/cegroups/views.py.

Then, I worked on adding the needed functionality to delete a group section in the administration page. In fact, the delete function worked fine but without checking any data. When a group gets deleted, it was deleting the group and deleting any users connected to that group. Therefore, I added alert message to inform the admin before deleting a group, which contains connected users, those users need to be re-assigned to different group. However, if the admin deletes any group while that group contains connected users, they will be assigned to "none" until they are re-assigned to a different group. They do not get deleted like what used to happen.

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11th ticket # 632.
12th ticket # 652
Moreover, I worked to create a page for the set group permissions based on the objects permissions\(^\text{13}\). I created a new sections in the group in the admin page to allow the admin to assign the existing group to different permissions based on permissions objects such as admin page viewing, therefore, I worked on three files translation/cgroups/views.py, translation/cgroups/urls.py, and translation/cgroups/ templates/maint_groups.html.

After I created the page for group permissions section, I had to work to add the needed functionality to allow admin to view group permissions\(^\text{14}\) and add the needed functionality for the set group permissions\(^\text{15}\), Hence, the admin is now allowed to view existing group permissions as well as add or remove existing group permissions. for the reason I work in the translation/cgroups/templates/maint_groups.html under Group Permissions. First one is called View Group Permissions where admins can view the list of groups with their permissions objects in one table. and the second one is called Set Group Permissions where admins can set and make changes to the groups’ permissions objects, so I had to add in translation/cgroups/views.py and translation/cgroups/urls.py, the needed functionality so the admin can make changes to the groups’ permissions objects and view these changes.

\(^{13}\) 13th ticket # 651  
\(^{14}\) 14th ticket # 690  
\(^{15}\) 15th ticket # 685
As a result, now the group section in the administration page is fully working. The admin can create new groups, view and edit the existing groups and delete any if needed. Also, admin can view and set group permissions to each group based on the permissions objects.

Then, I worked in the source texts to first create a page to allow the admin to view and edit the source texts and second add the needed functionality to allow the admin to save the edited source texts. The admin had no way to view or edit the existing source texts. So, I created a html page called list_all_source_texts.html to list all the source texts. So after the a source text is entered is going to listed in the above html page where can be viewed through the home page. Also, I added the needed functionality to allow the admin to edit any of existing source texts and save in the same source texts with updating the version number. I created a html page called edit_source_texts.html where the source texts can be editable as well as version number. By doing this, now the admin can enter new source texts, view all the source texts, and edit them if its needed. For that I needed to work in /translation/texts/views.py, and /translation/texts/urls.py.

I also worked adding a drop-down list in the top navigation bar. Therefore, I worked in translation/translation_mockup/templates/base/base.html. So, now users can click on their name, and they will get a dropdown list which has two options, 'Account Settings' or 'Log Out'. This dropdown list can be also used in the future if

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16 16th ticket # 710
17 17th ticket # 711
18 18th ticket # 719
there is a need to add more functionality to the users. At this point, in the account settings allows the users to change email as well as password. in the Log Out option, it basically exits the user out.

Then, I worked to *create breadcrumbs in each form page*\(^\text{19}\). These breadcrumbs navigation near the bottom of the pages that have forms. It provides links back to each previous page that the user navigates through in order to get to the current page. The files I made changes in as following:

- `/translation/texts/templates/texts/enter_new_source.html`
- `/translation/texts/templates/texts/edit_source_texts.html`
- `/translation/records/templates/records/enter_exam.html`
- `/translation/records/templates/records/enter_exam_record.html`

Lastly, as the deadline for the semester is approaching, it was time to think about project transition to the next group of developers. Therefore, I was assigned to work to *remove all the unnecessary pages*\(^\text{20}\) and *create a file site diagram of the project*\(^\text{21}\). After discussing with my team what files should be removed. We found number of

\(^{19}\) 19th ticket # 734  
\(^{20}\) 20th ticket # 735  
\(^{21}\) 21th ticket # 737
files and folders that are not being using at all. Here is the list of the unnecessary pages that I've removed from the project:

- In /grade folder
  - /translation/grade/templates/grade/index.html
- In /records folder
  - /translation/records/templates/records/index.html
  - /translation/records/templates/records/list_all_qued_records.html
  - /translation/records/templates/records/temp_out.html
- In /texts folder
  - /translation/texts/models.py.old
  - /translation/texts/.forms.py.swp
  - /translation/texts/templates/texts/temp_out.html
  - /translation/texts/templates/texts/index.html
- In /translation_mockup folder
  - /translation/translation_mockup/templates/home/index.html
- In /sidebyside folder
  - /translation/sidebyside (removed all the folder)
- In /keyword folder
  - /translation/keyword (removed all the folder)

The above files and two folders were not doing anything in the project. In fact, some of them were empty. We decided to remove them, so it does not confuse the developers in the future.
Finally I’ve done the final site diagram, so it helps developers in the future. also I changed the files permissions which I've created or either edited during the semester. I used the two commands lines `chmod -R g+w File_Name` and `chgrp -R ruttan File_Name`.

In conclusion, during the semester, I’ve worked in different functions in different parts in the project, however; I’ve mostly worked in the source text entry as well as setting up the admin page. First, In source text. now all the functions are working as they should be regrading to the project specifications including the new submission, conditions, viewing, and editing. Second, in the admin page, now admins are able to create new groups, view and edit the existing groups and delete any. Also, admin can view and set group permissions to each group based on the permissions objects.

- **Meeting Attendance:**

  ○ Only 3 classes I’ve missed From 08/25/14 to 12/07/14 (Fall/2014)

- **Supplemental Resources:**
  The resources I mainly used throughout the semester to help me with working in this project including the textbooks I’ve purchased are:


- List of Tickets assigned and completed:
  1. [Investigation on the project](#).
  2. [Looking into the code](#).
  3. [Discussing with the back-end team on moving forward](#).
  4. [Finding bugs and error](#) (Ticket #482).
  5. [Function of new source entry](#) (Ticket #505).
  6. [Check the function of the target text](#) (Ticket #506).
  7. [Add the needed functionalities in the new source entry page](#) (Ticket #546).
  8. [Add the needed functionalities in the new exam record entry form](#) (Ticket #581).
  9. [Remove reviewing structure from creating a source text](#) (Ticket #593).
  10. [Remove unnecessary reviewing functionality for workflow page](#) (Ticket #607).
  11. [Add the needed functionalities in the groups section in the admin page](#) (Ticket #632).
    a. view groups.
    b. create new groups.
    c. edit existing groups.
    d. delete any of existing groups.
  12. [Add the needed functionality to delete a group](#) (Ticket #652).
  13. [Create a page for the set group permissions based on the objects permissions](#) (Ticket #651).
  14. [Add the needed functionality to allow admin to view group permissions](#) (Ticket #690).
  15. [Add the needed functionality for the set group permissions](#) (Ticket #685).
  16. [Create a page to allow the admin to view and edit the source texts](#) (Ticket #710).
  17. [Add the needed functionality to allow the admin to save the edited source texts](#) (Ticket #711).
  18. [Add a drop-down list in the top navigation bar](#) (Ticket #719).
  19. [Create breadcrumbs in each form page](#) (Ticket #734).
  20. [Remove all the unnecessary html pages](#) (Ticket #735).
  21. [Create site diagram of the project](#) (Ticket #737).
● List of Documentations Created by me:
All my documentations can be found at
<http://classes.cs.kent.edu/courses/cs49901-trac/svn/F2014/translation/documentation/amashabi>

  ○ Breadcrumbs_Navigation_Documentation.pdf
  ○ Django_Documentation.pdf
  ○ Groups_Section_in_the_Admin_Page_Documentation.pdf
  ○ HTML_ZURB_Documentation.pdf
  ○ Source_Texts_Entry_Documentation.pdf
  ○ final_site_diagram_translation_project.png

● List of Weekly Reports:
Beside submitting my weekly reports in Blackboard. All of them can be found in svn at
<http://classes.cs.kent.edu/courses/cs49901-trac/svn/F2014/amashabi>

  ○ Report1.pdf
  ○ Report2.pdf
  ○ Report3.pdf
  ○ Report4.pdf
  ○ Report5.pdf
  ○ Report6.pdf
  ○ Report7.pdf
  ○ Report8.pdf
  ○ Report9.pdf
  ○ Report10.pdf
  ○ Report11.pdf
  ○ Report12.pdf