

Design Documentation Deliverable

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Group Name/ Number : Group 10

Student ID	Student Name	Signature
11108517	Kate Hennessy	Kate Hennessy
14031833	Orla Bonar	Orla Bonar
16136861	Mary Annie Vijula Ashok Kumar	Annie Vijula

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ReviUL - UL Proof Reading Website

1.0 Purpose of Website

ReviUL provides a medium for students and staff at the University of Limerick to find others to proofread their academic documents as well as allowing the proofreading of other user's documents. Proofreading can be one of the more tedious tasks to complete when writing an academic paper, and when done by the writer alone it often leads to uncaught typos and some poorly constructed sentences. This site will help ensure that their paper is being graded for their ideas and concepts, not their grammar. It can also be difficult to find others to help with proof-reading tasks, as friends and family may not be informed with the specific terminology of the writer's discipline and often colleagues are busy reviewing and writing their own papers. This website provides a means of finding individuals with experience within similar disciplines that are available to proof read papers and other documents.

At present, there is no platform like this within UL – even outside UL these types of resources are limited to sites requiring payment which do not utilise crowdsourcing. While this platform may not be as high quality as these paid alternatives, it is a free service which should attract a range of people with experience from a variety of disciplines for reviewing, and these types of community driven applications have been very successful in other review contexts such as Stack Overflow.

Future possibilities of the website could also allow uploading of the entire files as well as the preview – this would remove a lot of additional messaging between both the claimer and the creator and would also remove the possible privacy breach of creators having access to the task claimer's email address. Another potential feature would allow users outside of UL to review tasks as well as reviewable tasks not being limited to academic papers or documents; It may be possible for users to upload, for example, source code and have others review their coding practise and validate its efficiency. While these features are outside of the scope of this project, our design tries not to limit the possibility of these features in future implementations.

1.1 User Types

Below are the types of users who have access to the system as well as the functionality they have access to.

1.1.1 Visitor

A visitor will have access to very little of the site's functionality – they will only be able to access the register / login page and will be prompted to either login or register. They will not be able to see any of the sites content including profiles or tasks.

1.1.2 Standard User

A standard user will be able to login, view and update their profile information (excluding their email and UL ID). They can also create, view and accept tasks. A user can look for new tasks by checking the tasks stream, which will show tasks most relevant to that user (based on their tags). A user that has accepted tasks (Claimant) can view these tasks on a dedicated page and request for the full file for review through an email template (claimants will not have access to the task creator's email). They will also be able to mark a task as completed once they have finished proof reading the document. If they are unable to complete the task and mark it cancelled their reputation score will be reduced by 15 marks. If they do not complete or cancel the assignment by the deadline they will be penalised by having 30 marks removed from their reputation score. The user who requested the task (Creator) will be able to view the claimant's name and email once they have claimed their task. Once the claimant has completed the task, the creator will be able to review the claimer for their work by stating whether they were 'Happy' or 'Not Happy' with the review. If they choose 'Happy' 5 marks are added to the claimers score, if they choose 'Not Happy' 5 marks are removed.

Users can also flag tasks created by other users if they feel they include inappropriate material. They will also be able to post a review of users who were assigned to tasks they had created. A standard user has a reputation score of under 40, otherwise they will be upgraded to a moderator.

1.1.3 Moderator

A moderator will inherit all the functionality of a standard user (see 1.1.2 Standard User) as well as additional privileges including ability to review flagged tasks which will be visible on a dedicated page as well as the option to ban the creators of these tasks. A moderator will also be able to remove these flagged tasks from the available list of tasks.

1.1.4 Banned User

A banned user will no longer be able to login or register again with the same email or UL ID (they will exist in user database with a user-type of "banned. As this system is based on providing a UL email they will be unable to join the site again.

1.2 Justification of Functionality

Once a user selects the website on the browser, they will be brought to a page in which they can register or sign into ReviUL. If the user decides to register if they have not previously done so, they will be requested to enter their email address, first name, last name, relevant discipline, tags, password as well as re-entering their password; this will all be completed in text boxes provided, similar to this (see Appendix 1: Figure 2 Webpages). If the password does not match in both password text boxes, the user will be asked to re-enter their password as it is incorrect. Once all the fields are entered they can register for the website. If the user has registered for the website on a previous occasion they can go to the login section. This section will have two text boxes asking for the user to enter their email and password. There will also be an option to click "forgotten password" if the user does not recall their password. Once all fields have been completed the user can click the button to login, and they will be granted access to the system if the information is correct (see Appendix 1: Figure 1 Webpages).

Once logged in, the user will be brought to their user page, which would contain user details such tasks they have uploaded (see Appendix 1: Figure 3 Webpages). There will be a menu bar, which will include the option to log out, see claimed tasks by that user, see what users have claimed their tasks and to find available tasks which they may have an interest in proof reading.

The task section of the page will show information in relation to the article that a user has uploaded for other users to view. When users upload information about their task, they will have a screen similar to this page (see Appendix 1: Figure 4 Webpages). The information provided with this function will allow other users to contemplate if they will claim this task to proof read. There will also be the option to message the user in order to claim tasks on the user page.

The proposed website will look similar to this figure in which the user will log in or register for the website (see Appendix 1: Figure 5 Webpages).

1.3 Potential Ramifications

The potential ramifications for a website of this nature on users would be that it would provide an easy and accessible platform for users to share their work for proof reading and help other users by proof reading their work. It would be easy to use as users could upload details of their work on the website for other users to search through and gather information on, to ensure that capable of proof reading such a document. This proposed website would enable users to increase their skills and knowledge by aiding others but also build a community in which users give and receive help.

There is also a potential increase for scope of this website for users to be able to upload more than one document at a time (as the database contains an individual document table). Scope could also be increased by offering services to other colleges and universities not only around the country but possibly worldwide.

However, there are some potential issues which may occur with such a website. Users leaving tasks which have not been claimed for a long time. This has potential to clog the system and database with outdated tasks if left for a long period of time. To address this issue, there would be an expiry date set in the database to every task in order to ensure tasks are up to date. Users would also be aware of expiry date setting when uploading a task to the website.

There is also the possible issue of users not removing "claimed tasks" from the website, thus allowing other users to attempt to claim them. This would make the search capabilities of the system overloaded with unavailable tasks. To combat this issue, there would be an option for the claimant to select that the task as being completed. If the claimant does not mark the task as completed before the deadline, it will affect their reputation score. This will act as a motivation to mark tasks as completed or cancelled. Once the user has selected this option, the task will appear as such on the website for other users to see. It will also not appear when other users are searching for tasks to proof read. Users will be notified each week to update if tasks have been claimed or not.

2.0 Detailed Description

When the user launched the proposed website, the homepage will be similar to that in figure 5 (see Appendix 1: Webpages). No processes will be needed to generate this page. The user can navigate to other pages from this home page and processes can be triggered from these further pages.

P1 (Registration) will be executed when a user wishes to sign up to the website to avail of proof reading help. Users will need to provide information to submit to the form displayed on the webpage. See Figure 5 (see Appendix 1: Webpages). The input will be validated and once it is deemed that the information is correct and in the correct format for inputs such as email and password, the information will be sent to the database. In the database, the new entries will be added to the correct tables. The user will then be brought to their profile page. If the information provided in the web form is incorrect, an error will be displayed and the user will be informed what fields were completed incorrectly.

P2 (Login) is executed if the user selects login on the registration page. Users who have previously registered will be required to fill in their email and password. This information will then be validated and the information in the database will be queried in order to complete this step. If the information submitted is correct, the user will be brought to their profile page. If not, an error will be displayed informing the user that the information inputted is incorrect. See Figure 6 (see Appendix 1: Webpages).

P3 (Forgotten Password) is executed once a user selects the forgotten password option on the login screen. The user would input their account email. Once the user clicks submit, a new password is generated for the user matching this email, sent to the email and updated in the database. See Figure 7 (see Appendix 1: Webpages).

P4 (Profile Page) is executed once the user has logged in to the website and their credentials have been validated. The user page displays information on the tasks uploaded by the user as well as links to other useful pages including Account Settings, Available Tasks, Information and more. See Figure 8 (see Appendix 1: Webpages).

P5 (Task Upload) is executed when a user selected to upload details on a task. This would bring them to a web form which would require them to fill out details around their task. These details would include file type, a brief description of their task, tags to describe the task, task type, page count, word count and a sample of the document. Once the user selects submit, the information would be sent to the database and the information would be entered into the correct tables in the database.

P6 (Tasks) is executed when a potential claimer selects a task from the available task stream. This would display the information that the task creator has uploaded in the task upload page(P5). This information would be queried from the database and displayed in the correct format on the web page. It would contain a claim and flag button as well as the option for these potential claimers to message the creators about the task. This form would include their name, email and message.

P7 (Flagged Tasks) executes if another user has flagged a task if they deemed it inappropriate. Users who have enough reputation points to be a moderator will be notified that there is a flagged task. A moderator will then review the flagged task and decide if the task should be removed and the user banned. If they deem it as inappropriate, the information will then be sent to the database in order to delete the task from the task table and input the user as banned in the user type.

3.0 Benefits and Limitations

The benefits of the proposed website include having a community of individuals with the same goal of giving and receiving aid in relation to proof reading. Users can upload details of their task with ease and provide information for other users about the task, which will also aid the claiming process.

Limitations may include that users can only upload one document at a time. The user cannot upload their actual file to the website and the claimer must be contacted via email in order for other users to receive the entire file in order to proof read it. This may make actually proof reading a task a long process.

4.0 Technologies

Collection of technologies will be used to accomplish various tasks in creating the proposed website.

1. **Operating System:**

Microsoft Windows 7 / Linux will be used as OS for developing the proposed website.

2. **IDE:**

Atom and Adobe Dreamweaver will be used as Integrated Development Environment for the proposed project.

3. **Browsers:**

Google Chrome, Safari, Firefox and Internet Explorer
These browsers will be used to view the web pages.

4. **HTML5:**

This mark-up language will be used to provide the structure of the website.

5. **CSS3:**

The Cascading Style Sheet will be used to change colours, fonts, animations, and transitions on the proposed project to make the web look good.

6. **Bootstrap:**

Bootstrap is one of the most popular front-end frameworks and open source projects. It is an HTML, CSS and JavaScript framework that will be used as a basis for creating the proposed website.

7. **JavaScript:**

JavaScript is an object-oriented programming language which will be used in the project to create interactive effects within web browsers.

8. **PHP:**

PHP is open-source general-purpose scripting language which will be used in web development and can be embedded into HTML.

9. **JQuery:**

JQuery is a cross-platform and open source JavaScript library designed to simplify the client-side scripting of HTML. JQuery allows for changes to be made to HTML pages in a similar way to JavaScript.

10. **MySQL:**

MySQL is a database management system which will be used on the proposed project. It runs on server and is very fast, reliable and easy to use.

11. **Git and GitHub:**

Git is a version control system for tracking changes locally and GitHub is then used to coordinate working on those files among the team. Both Git and GitHub will be used in the proposed project to keep track of changes in any files. Our GitHub project is available at https://github.com/KateHennessy/CS4014_TermProject.git.

5.0 Appendices

5.1 Appendix 1: Web Pages



[Send me back to the home page](#)

Member Login

A login form with two input fields: 'Email' and 'Password'. Below the fields is a red 'Log in' button. At the bottom of the form is a link that says 'Forgot password?'.

Figure 1: Log in screen from www.grammarly.com



[Pricing](#) | [Tour](#) | [FAQ](#) | [Resources](#) | [Contact](#)

Contact sales +44 20 8144 1336

[Log in](#) | [Sign up](#)

Website proofreading by Wordy®

As many businesses increasingly adopt a 'web-first' workflow the need to create **great content** in much reduced cycle-times increases. Wordy's **web- and website proofreading** service includes:

- Correct grammar and spelling
- Appropriate words
- Real-time access to editors
- Reliable punctuation and consistency
- Logical structure
- True 24h service, 7 days a week.

With real-time access to professional editors and proofreaders in all major time zones Wordy gives you a **true 24-hour service**, seven days a week. Create your free account now for an instant price quote and approximate delivery time of your online and website copy.

Featured website proofreading clients



Create your free account

E-mail *

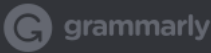
Password *


Password confirmation *


[Sign up for free](#)





Figure 2: Registration screen from www.wordy.com




 My Grammarly

 Profile

 Apps

 Premium

 Log out
orla

Profile

Personal dictionaryAmerican/BritishAccount

Name	orla	Edit
Email	14031833@studentmail.ul.ie	Edit
Password	•••••	Edit


Delete account...

Figure 3: Profile page from www.grammarly.com

Analyze Your Paper

* denotes required field

Paste the text of your paper below (or upload a file) and select the "Get Report" button to **immediately** receive your analysis.*

 Upload File

...or paste your text here

Works Cited:
Paste your works cited, references, or bibliography here.

Select the education level of this paper's author*:

Select the type of paper you are submitting (optional):

Plagiarism detection (optional):

Figure 4: Task Information Upload Screen from www.paperrater.com

ReviULAbout UsAlready have an account?Login

Sign Up

First Name

Last Name

Email Address

Discipline

Password

Confirm Password

Tag 1

Tag 1

Tag 2

Tag 2

Submit

Figure 5: Registration page for ReviUL

ReviULAbout UsAlready have an account?Login

Sign Up

First Name

Last Name

Email Address

Discipline

Password

Confirm Password

Tag 1

Tag 1

Tag 2

Tag 2

Submit

[Forget your password ?](#)

Sign in

☐ keep me logged-in

Figure 6: Login section on top right hand corner of website

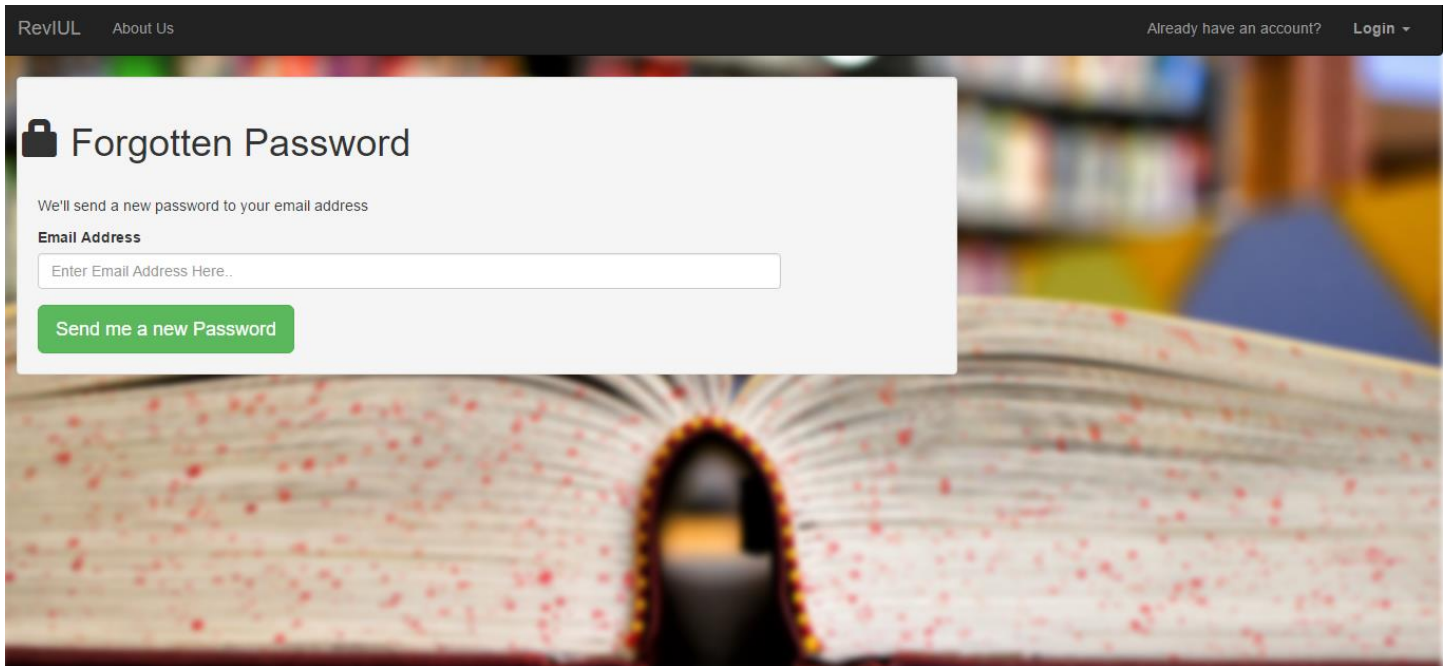


Figure 7: Forgotten Password page for RevUL.

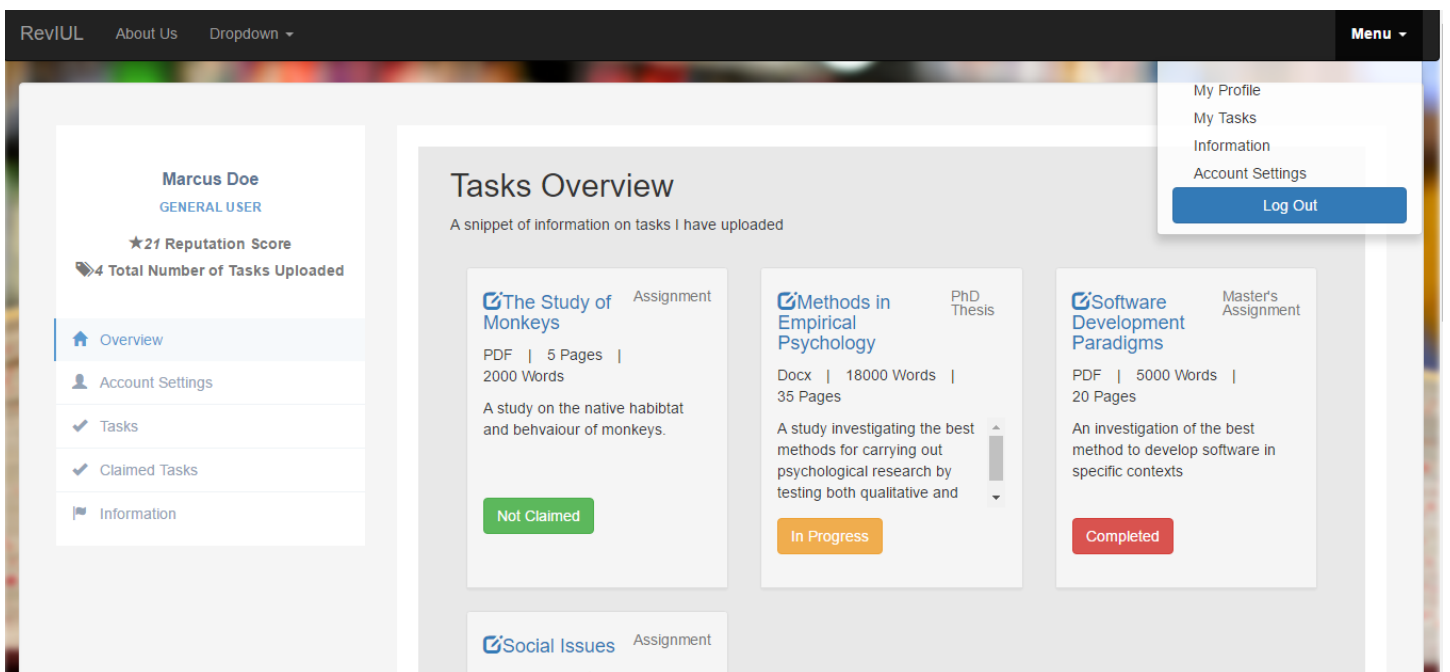


Figure 8: Example Template of a standard user profile on RevUL

5.2 Appendix 2: Database Tables

Primary Key =



Foreign Key =



Table Name: User

Primary ID: user_id

Description: The user tables stores user_id, first and last name, email, password, user-type, discipline and reputation for each user.

User

Field Name	Data Types	Example
user_id	Number	123456
f_name	Text	Murphy
l_name	Text	Mary
email	Text	mary@ul.ie
pass	Text	Staff
user-type	Text	Moderator
discipline	Text	History
reputation	Number	20

- **user_id** is a unique identifier for each user. Each user will have one unique ID. The id is numeric and can be 11 digits long.
- **f_name** is the user's first name. The f_name is alphabetic and can be 100 characters in length.
- **l_name** is the users surname. The l_name is alphabetic and can be 100 characters in length.
- **email** is the users email. The email is numeric and can be 128 characters in length. It is also must be unique.
- **pass** is the users unique password. The pass is alphabetic and can be up to 128 characters in length.
- **user-type** is the user's access type – this is entered as a varchar and will be limited to standard, moderator, banned. User-type is alphabetic and can be up to 40 characters in length.
- **discipline** is the users department in university. The discipline is alphabetic and can be up to 128 characters in length.
- **reputation** is the users reputation depending on their performance on the website. Reputation is numeric and can be 11 digits long.

Table Name: Task

Primary ID: task_id

Description: The user tables stores task_id, creator_id, documentID, task_type, description, task_status, flagged, claim_deadline, completion_deadline.

Task

Field Name	Data Types	Example
task_id	Number	954783
creator_id	Number	548932
document_id	Number	478132
task_type	Text	PhD thesis
description	Text	Study of Monkeys
task_status	Text	Claimed
flagged	Number	0

claim_deadline	Date	20 – 02 - 2018
completion_deadline	Date	20 – 09 - 2017

- **task_id** makes reference to the individual task uploaded by a user. It would be unique to that task. Task_id is numeric and can be 20 digits long.
- **creator_id** is the reference to the creator of the task. It is a foreign key. Creator_id is numeric and can be 11 digits long and can be 11 digits long.
- **document_id** is the identifier for the document type which will makes reference to the table Documents (see Documents). DocumentID is numeric and can be 11 digits long.
- **task_type** will describe the type of document the user is uploading. Task_type is alphabetic and can be up to 128 characters in length.
- **description** will hold the description of the task. Description is alphabetic and can be up to 200 characters in length.
- **task_status** holds information if the task has been claimed or not. Task_status is alphabetic and can be up to 40 characters in length.
- **Flagged** will state is a task has been flagged or not by another user. It will be numeric and can be 1 digit in length.
- **Claim_deadline** is the deadline for the task to be claimed. Claim_deadline is numeric.
- **Completion_deadline** is the deadline that the task must be reviewed by once claimed. Completion_deadline is numeric.

Table Name: Claimed_Task
Primary ID: claimer_id
Description: The task tables stores task_id and claimer_id.

Claimed_Task

Field Name	Data Types	Example
claimer_id	Number	911283
task_id	Number	121416

- **claimer_id** is the identifier of who has claimed a task. Claimer_id is numeric and can be 20 digit in length.
 - **task_id** makes reference to the individual task uploaded by a user and it is a foreign key. It would be unique to that task. task_id is numeric and can be 11 digit in length.
- These two are both foreign keys – each come from a different table with a unique row being identified by the task_id (i.e. a task cannot be claimed twice).

Table Name: Document
Primary ID: document_id
Description: The task tables stores document_id, no_pages, no_words, format and storage_address.

Document

Field Name	Data Types	Example
document_id	Number	369852
no_pages	Number	4
no_words	Number	952
format	Text	pdf
storage_address	Text	C:\Files\CurrentFiles\samplethesis.pdf

- **document_id** is the unique identifier for a document. Document_id is numeric and can be 11 digits in length.
- **no_pages** is the number of pages in a document. Document_id is numeric and can be 11 digits in length.
- **no_words** is the number of words in a document. Document_id is numeric and can be 11 digits in length.

- **format** is the document type. Format is alphabetic and can be up to 5 characters long.
 - **storage_address** is where the document is kept. Storage_address is alphabetic and can be up to 200 characters long.
-

Table Name: Task_Tag
Primary ID: task_id and tag_id
Description: The task tables stores task_id and tag_id.

Task_Tag

Field Name	Data Types	Example
task_id	Number	112233
tag_id	Number	758961

- task_id is the unique identifier for a task. It is also present in the Assigned Task and Task table (see Task and Assigned Task). Task_id is numeric and can be 20 digits in length
 - tag_id is the unique identifier for the tags a user inputs. Tag_id is numeric and can be 11 digits in length
- The combination of these rows equate to a unique entry.
-

Table Name: Tag
Primary ID: tag_id
Description: The task tables stores tag_id and tag_name.

Tag

Field Name	Data Types	Example
tag_id	Number	182235
tag_name	Text	Women in History

- **tag_id** is the unique identifier for a tag. It is also present in Task_Tag table (see Task_Tag). Tag_id is numeric and can be 11 digits in length.
 - **tag_name** is the name attached to a tag. Tag_name is alphabetic and can be up to 128 characters long and it must also be unique.
-

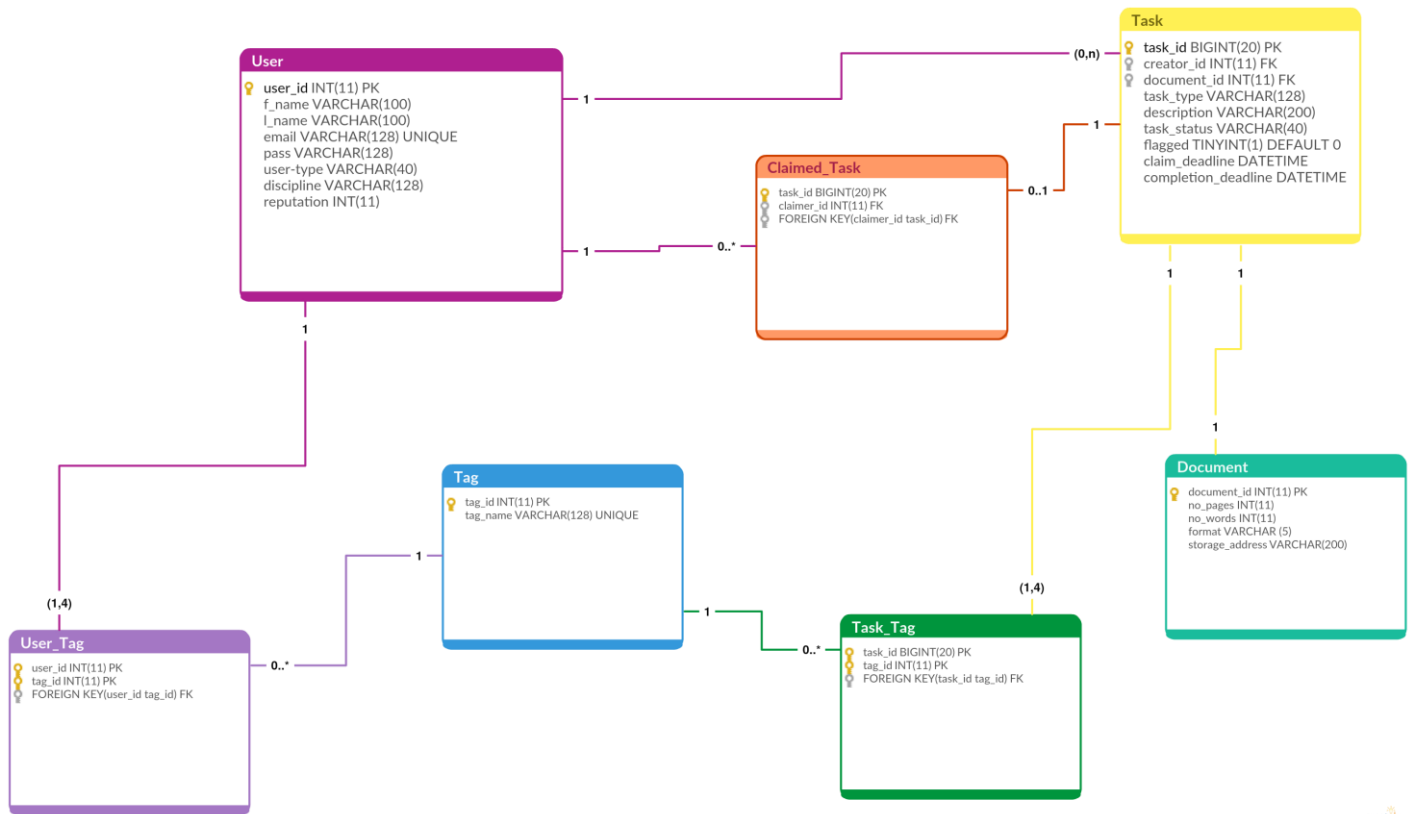
Table Name: User_Tag
Primary ID: user_id and tag_id
Description: The task tables stores user_id and tag_id.

User_Tag

Field Name	Data Types	Example
user_id	Number	188835
tag_id	Number	101010

- user_id is the unique identifier for users. It is also present in the User Table (see User). User_id is numeric and can be 11 digits in length.
 - tag_id is the unique identifier for a tag. It is also present in the Tag, Task_Tag tables (see Tag and Task_Tag). Tag_id is numeric and can be 11 digits in length.
- The combination of these rows equate to a unique entry.

Show relationships between tables



**created on createely.com

A **User** may or may not have any created tasks. A **Task** can only have one creator (User) and does not necessary have to be assigned to a claimer (Claimed_Task). A **Claimed_Task** can only be claimed once (PK task_id). A **Task** also has one **Document** (this layout allows for multiple documents to be attached to a task in future versions). A **User** can have between one and four **Tags** – this is implemented through use of the **User_Tag** Table. This maps user_ids to tag_ids, and removes possible nulls in the User table and will easily allow for more than four tags if ever required in the future. This is the same for **Task_Tag** table – a task can have one to four tags as well.

5.3 Appendix 3: Processes

Process Number	P1
Process Title	Registration
Brief Description	User inputs request for registration. Once completed correctly, the user will be directed to their new profile. The request for registration will be rejected if the information submitted is incorrect
Inputs	Information required from the registration form inputted by the user.
Detailed Description	User has the intent of registering with the website. The user completes the web form with the correct information displayed on the web page. This will result in the correct registration to the website. If the information is incorrectly input, an error will be displayed asking the user to re-submit the form with the correct information.
Output	Generates a new profile for the user and directs the user to it.

Process Number	P2
Process Title	Login
Brief Description	Validates information user has inputted into the web form and allows or denies access to their profile.
Inputs	User email and password.
Detailed Description	User enters their email and password into the two text fields provided. This information will be their unique email and password they provided at registration. The process will validate if the information provided is correct in these two inputs. If correct they will be directed to their profile. If incorrect an error will be displayed and they will be requested to re-submit the form.
Output	Directs the user to their profile.

Process Number	P3
Process Title	Forgotten Password
Brief Description	Allows the user to request a new computer generated password if they cannot relocate their own in order to access their profile.
Inputs	User email.
Detailed Description	User enters their email address and requests for a new password to be sent to them They select “Send me a New Password” and the system will generate a random password and email it to the user. The user will then be requested to input the new password into the log in screen. If correct they will be directed to their profile. If the information is incorrect they will be requested to re-submit the form.
Output	Directs the user to their profile.

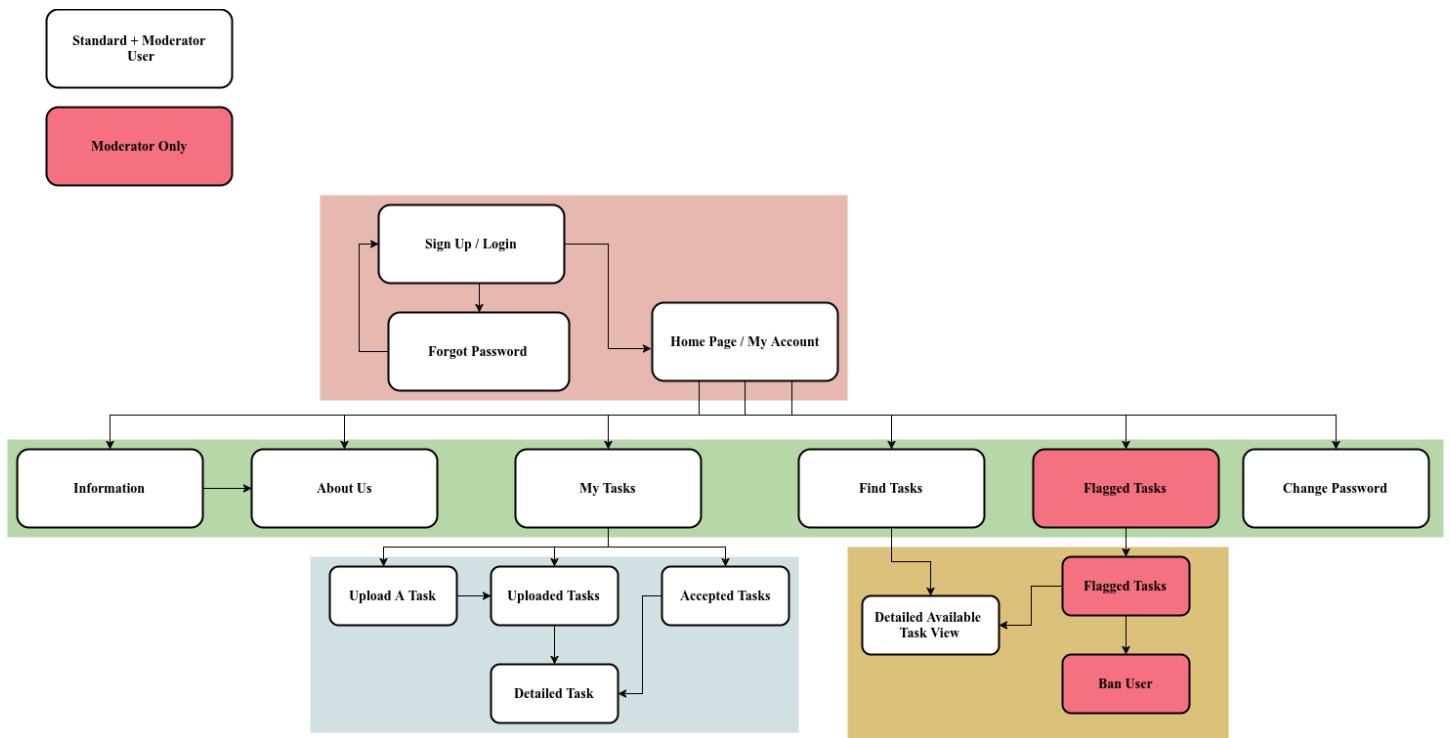
Process Number	P4
Process Title	Profile Page
Brief Description	User information will be displayed on this page. User information will include task details and the option for other users to contact them.
Inputs	User Login
Detailed Description	Once the user has successfully registered/logged in, they will be brought to their profile page. This page will contain snippets of information such as reputation scores, user type and overviews. This will be an overview of tasks they have uploaded. A tag overview of tags the user has used will also be displayed on this page.
Output	Task and tag overview.

Process Number	P5
Process Title	Task Upload
Brief Description	Users will enter details into the provided text boxes in relation to their task. If the form is entered with the correct information and validated the task will upload. If incorrect information is provided, an error will be displayed and the user will be asked to resubmit the form again.
Inputs	Task information such as file type, a brief description of their task, tags to describe the task, task type, page count, word count and a sample of the document.
Detailed Description	Users will provide information about the task they wish to upload in the provided text fields. Such information will include file type, a brief description of their task, tags to describe the task, task type, page count, word count and a sample of the document. This information will be validated to ensure it is in the correct format. If incorrect information is provided, an error will be displayed and the user will be asked to resubmit the form again
Output	The users task will upload for other users to have the option to claim.

Process Number	P6
Process Title	Tasks
Brief Description	Users will select a task after searching for it and information about the task will be displayed.
Inputs	Task information after searching for the task.
Detailed Description	After a user finds a task that they may have an interest in proof reading and select said task, information on the task will be uploaded after querying the database for the information. The user can then check the information displayed on the task. Other users can then message the uploader to get more information on the task or to attempt to claim it. Once they click message, the message will be sent to the user. If fields are left empty or unfilled, the users will be alerted to this and prompt them to fill all text boxes before submitting a message.
Output	Task information and the option to message the user to claim the task.

Process Number	P7
Process Title	Flagged Tasks
Brief Description	Moderators (users with adequate reputation points) will be informed of a flagged task. They will then review the task and based on their decision the task may be removed and user banned or the task will be deemed as appropriate and no action will be taken.
Inputs	Another user will flag a task as inappropriate and moderators will be informed.
Detailed Description	A user may flag a task if they deem it to be inappropriate. Moderators will then be informed that a task has been flagged by another user. They will then review the task and decide if it is appropriate or inappropriate. If they deem it to be inappropriate, the information will then be sent to the database to delete the task from the task table and input the user as banned in the user type. Otherwise, if deemed appropriate, no action will be taken and the moderator will "de-flag" the task.
Output	User will be banned (user-type set to "banned") and task deleted or no action will be taken.

5.4 Appendix 4: Flowchart



**created on draw.io