

Eco-Note

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Project Description

I am planning to design an online note taking system, which allows users to make notes or checklists according to their needs. For eg. a user might need to remember certain things or has a to-do list for a day, the user can use a checklist and list down the items to be done which can be removed as and when the work is done. The user is also enabled to take notes. These notes can be organized in notebooks and the notebooks in turn can be organized under subjects as well. This helps the user to keep all the work very organized.

There are various functionalities provided to the general user:

- Users can copy from anywhere; the web or an already made document and paste it into the notes.
- Can share the notes on Facebook, Twitter or Gmail.
- Users can make groups with other users, where they can share certain notes, which all members in the group can view.
- Search for notes , notebooks or subjects which the user himself has created
- Set Reminders for various to-do tasks.
- Delete Notes , notebooks or the entire subject directory.
- Mark notes as important.
- Give information about the notes such as when it was created, the last it was modified, the author and whether it is shared or an individual note.
- Uploading snapshots to notes.
- Creating a doodle in the notes.
- Users can share the link of their notes to peers. People can have only 'View' or read only access to those notes

Apart from these functionalities, there are extra benefits given to a student and a faculty user.

The Student user can link notes to one another, which makes it easier for simultaneous reading. Students can also view the previous version of the notes.

The Faculty user has an advantage of sharing the notes with his/her students and then also giving them a permission to just view or view and edit. This way, instructors can upload certain notes from which the students can study and since they can give permissions, instructors do not need to worry about students changing the notes.

Every user needs to register and make their profile, to save their changes. Users need to login with their username and password.

All the above data will be stored in a database and that database will be queried to obtain the required data.

Actors

1. Admin:

Admin is someone who will keep track of the entire system. This includes

- Managing users and keeping track of their information. Information will include the private information a user entered (login credentials , name, a profile picture (optional)) and the entire database of the user containing the various notes, notebooks prepared, groups in which the user is present and whether he/she is an admin, the notes the user shared etc.
- Every user needs to create a profile.
- Every kind of user needs to have a username/email and a password to access the data saved.

2. User:

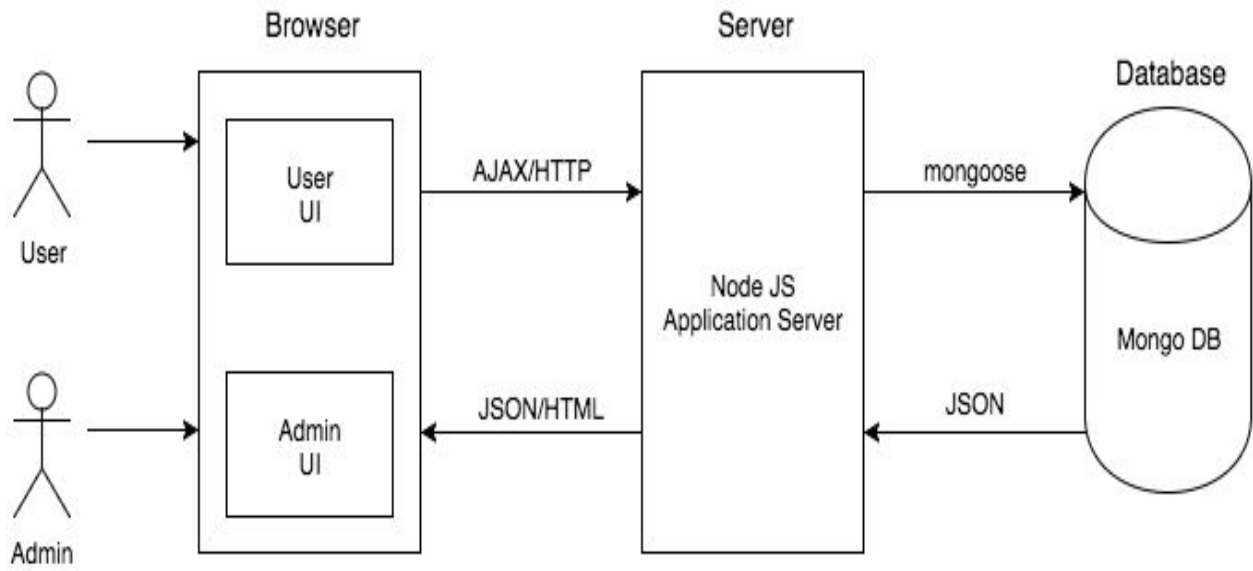
1) Student:

- A student can be verified by a valid college email-id.
- A student gets a few additional advantages over other users:
 1. A student can view previous versions of the notes made.
 2. Link notes to one another, so that they can read the notes in continuity.

2) Faculty:

- A faculty has certain advantages apart from the basic features provided to the general users, faculties/instructors or private tutors can share notes they make.
- The notes can be shared in groups, and those groups include a bunch of students who study under them.
- The faculty can give permissions to students to only read or read and edit the notes.

Architecture



Use Case Analysis

1. User creates Profile

- Enters the url of the website.
- Clicks on the "Register" link.
- Enters the compulsory fields such as First Name, Last Name, Email-id, username, password and confirming the password.
- User can also upload a profile picture which is visible in the groups, but it is optional.
- User then selects one option out of Student, Faculty, Other.
- By clicking on Student, user needs to enter the university name, the university email-id. The account will be verified by the link sent to that university email.
- By clicking on Faculty, user needs to enter whether he/she is a private tutor or an instructor. If an instructor then the name of the university, the subject they teach and email-id of the university. If its a tutor then the subject the tutor teaches.
- The user then reads the terms and conditions of the website and clicks "I Agree".
- The the user clicks on "Create Profile".

2. User creates and writes in a note or notebook

- Login with the username and password.
- Click on "Add Subject icon".
- Enter the subject name in the dialog box and click "OK".
- Click on the subject created and click on "New".
- Choose Note or Notebook according to the requirements of the user.
- If the user chooses a Notebook then he/she can add a note to the notebook in a similar manner.
- Once the user clicked on Note, user can select from Text Note or checklist and then enter the name of the Note and click "OK".
- To start writing in the note/notebook, click in the white-space on the right pane of the user interface and start typing.
- The note will be automatically saved in the particular notebook of a subject or independently (however it is created).

3. User sets a reminder

- User logs in Eco-note with the username and password.
- Once logged in, Eco-note shows the user , the saved subjects, their notebooks and notes.
- The user selects the particular note or checklist and clicks on “Add Reminder icon”.
- This opens a calendar, where the user can select a date.
- Further the user can set a time for the reminder.
- At that particular date and time , an email will be sent to the user (to the registered email-id), reminding him/her of the task.
- The user can also add a title for the reminder and click “OK”, to save the reminder for that date.

4. User updates his/her profile

- User logs in the system with his/her credentials.
- Clicks on the Profile link on the top right hand corner.
- Click on the “Edit Profile” tab.
- All the fields in the profile will appear with their present values.
- The user can edit the fields according to his/her choice.
- Clicking on “Save and Update Profile” to save these changes to the profile.

5. User creates a group

- User logs into the system with their credentials.
- Going to the left corner of the user pane, click on “Create Group icon”.
- Enter the name of the group and add other members in the group by email-id.
- The user is the admin of the group and can add or remove other users.
- Once members are added, click on “OK” and the group will be created in left side of the user pane.
- The icon of the group (profile picture) can also be changed. This access is given to all members of the group.
- Any note shared in the group is visible and readable to all the members in the group.

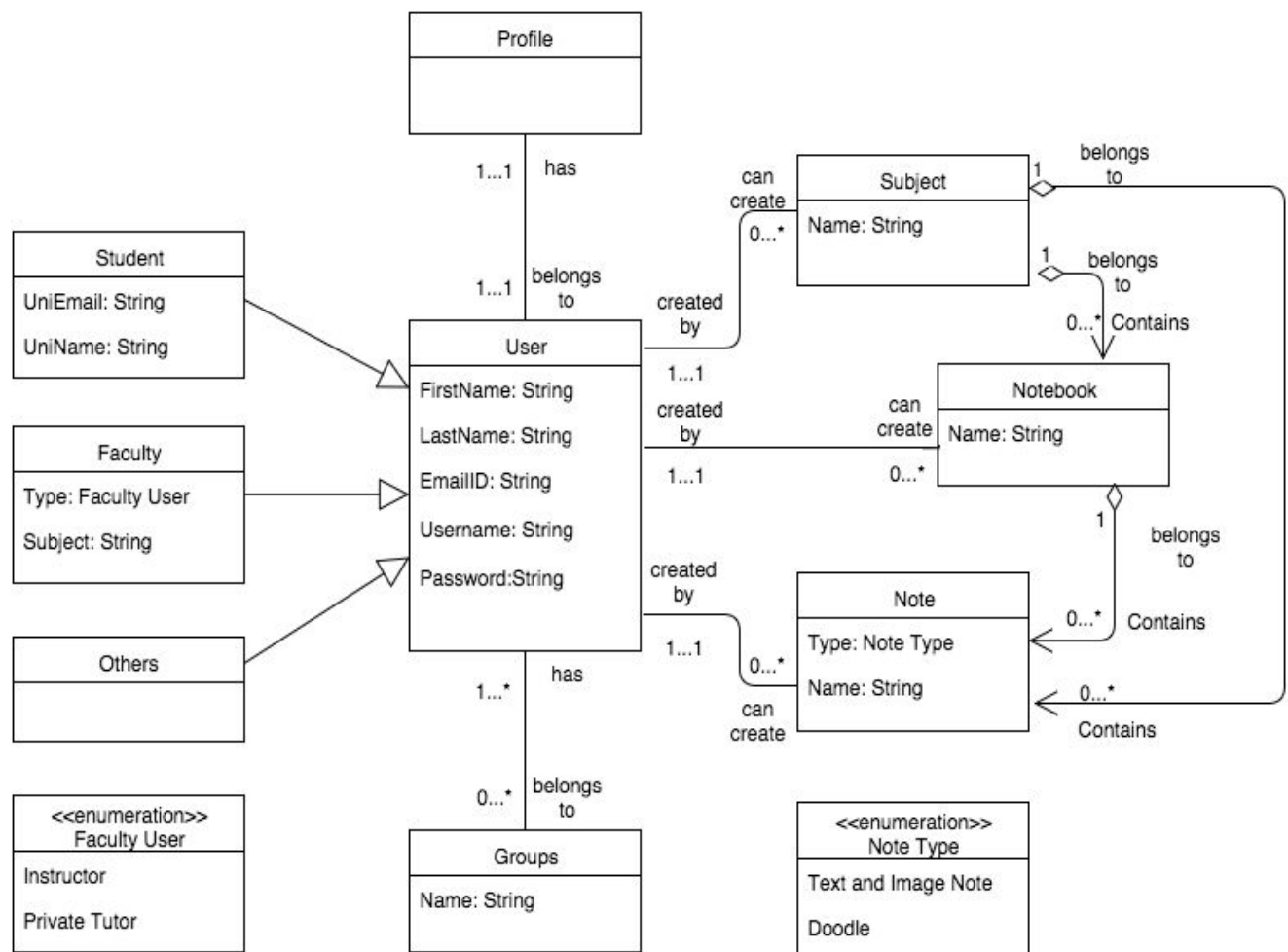
6. User reads a note and information related to the note

- User logs into the system with their login credentials.
- User types the name of the note/notebook he/she wants to read in the search bar and hits "ENTER KEY".
- If the note with such a name is created by the user, then it appears in the search results.
- By clicking on this note/notebook, its contents open.
- If the user wants information about the note then by clicking on the "Information Icon", the user can get the details of when the note was created, when it was last updated, whether it is shared in a group or an individual work and the author of the note.
- Clicking on ← in the browser, the user can return to reading the notes.

7. User wants to delete a note or notebook

- There are two ways to delete a note/notebook
- When the user creates a note, as he writes, everything gets saved. If the user feels the note is not worth keeping then click on the "Delete Icon" besides the Name of the note.
- On clicking this, a dialog will appear which will ask for confirmation to delete the note. On clicking "YES", the note will be deleted. By clicking "CANCEL", it will remain undeleted.
- Second is when the user is reading a note after creating it. After reading if the user wants to delete the note then by clicking on the "Delete Icon", even at reading time, the note can be deleted. The rest of the procedure for deleting is as explained in the above point.

UML Class Diagram



Moqups

This link shows how the website will appear in a mobile handset.

https://moqups.com/Biyanta_Shah/OVDodBIM