

Project 2: TeamNote

Design Analysis

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1. Overview:

TeamNote phase 1 is a browser-based note-taking application that allows users to create and organize textual notes, save them and access them. In phase 1 of the project a user can create, edit, delete and show a note. Currently the application does not support users and permissions (to be added in phases 2 and 3 of the project).

2. Concepts

A note consists of three fields:

Title - the note title stored as a string

User- the name of the user who created the note. Currently this field is a string but in phase 2 of the project this field will be updated to support users.

Content – the content of the note. A text area, since a string is limited in its length and a user might want to write a longer note.

New note

Title

User


Content


Create Note


3. Functionality and features


3.1 Features:


TeamNote currently supports the following features:

Create  – allows the user to create a new note as long as the user specifies the required fields (see section 3.2)

Show  – allows the user to access an existing note and read it.

Edit  – allows the user to edit an existing note. Currently the user may change the name of the user who created the note. A user will not be able to save an edited note if required fields are left empty.

Delete  – allows the user to delete an existing note. Will prompt the user with a verification window.

Back  - sends the user to the main page, where he or she can see all the existing notes

3.2 validations:

In order to create a note, a user must specify a title and a user name. If a user tries to create a new note without specifying the above fields, the application will prevent the user from creating the note. The reasoning behind this design decision is that every note has to have a creator, and a note cannot be empty (there is no point in adding empty entries to the table). From a better user interface perspective, the content field is optional. A user might want to create a short note that can be summarized only by its title (for example, “submit 6.170”). In this case the content will be redundant if the user does not wish to add anything else.

4. Testing

The following manual tests were performed on the application:

Positive tests:

Category: valid use of the application. Expected result: the user will be able to perform the require action.

- 1) Creation of a new note with values in all fields.
- 2) Creation of a note with values only in the title and user fields.
- 3) Creation of a note with the same title or with the same user.
- 4) Editing of a note to change its title/user/content.
- 5) Showing an existing note.
- 6) Deletion of an existing note.
- 7) Going back from every page to the main page.
- 8) Going back in the middle of an edit, verify that the content was not changed.

Negative tests:

Category: Invalid creation/editing of a note. Expected result: the user will not be able to create a note or save an edit of a note.

- 1) Creation of a note without a value in the title field.
- 2) Creation of a note without a value in the user field.
- 3) Creation of a note without values in both a title field and user fields.
- 4) Editing and saving of a note without a value in the title field.
- 5) Editing and saving of a note without a value in the user field.
- 6) Editing and saving of a note without values in the user and title fields.

5. Attribution

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