

Turtl

Data Design Document

Submitted to:

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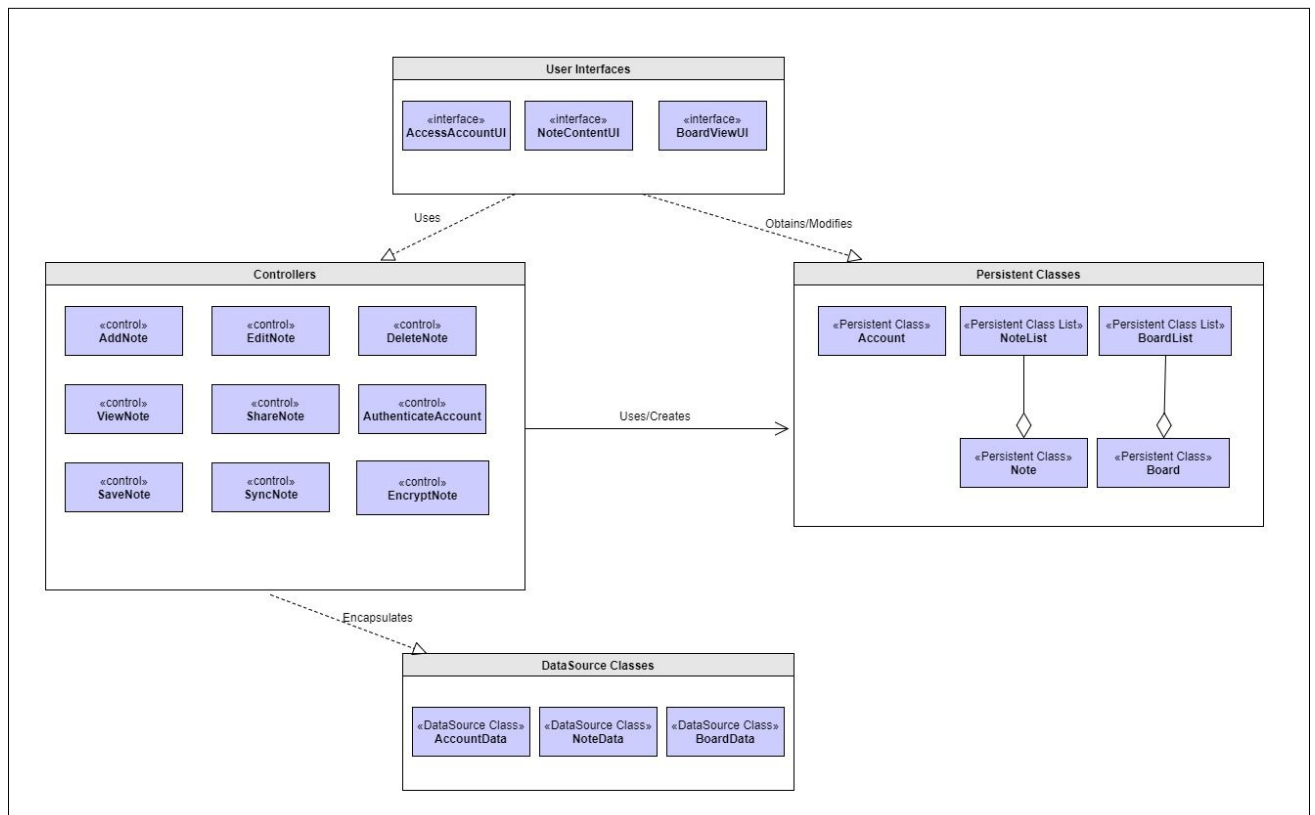
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Revision Control

History Revision:

<i>Revision Date</i>	<i>Person Responsible</i>	<i>Version Number</i>	<i>Modification</i>
11/15/2017	Brian Sy	1.0	Initial document

Data Design:



Data Access Object (DAO) Classes:

Class Name	Description
AddNote	This control class will create a new instance of a note. After creating a new instance, the user will choose whether to add a password, file, image, bookmark, or text note. This will return an integer which will be used by the edit function to determine what kind of note will be edited.
EditNote	This control class will edit a newly created note or an existing note. This will take an input of the note filename to be edited. It will check first what type of note will be edited. After confirming, the note will be edited based on its type. The note is edited by changing its variables. After editing, the note will be saved.
DeleteNote	This control class will delete a note and its data from the server. It will take an input of the filename of the note, which will be deleted from the server.
ViewNote	This control class will let the user view an existing note. It will take as input the filename of the note, which will let the data be accessed from the server.
ShareNote	This control class will share a board to another user by sending an invite to another user. The board may or may not contain notes. It will take as input a string for the email address of the invitee and another string for the passkey in case the user decides to put a password for the invite.
AuthenticateAccount	This will allow the user to log in to the app. It will take as input two strings: one for the username and another for the password. However, the server will first check if the information inputted by the user is associated with an existing account before allowing the user to log in.
SaveNote	This control class will save the note and prevent the loss of data. It will take an input of a filename for the note and it will output a save state, which will be represented as a boolean to see if it was saved properly or not. This way, it will be able to save the note that was specified properly.
SyncNote	This control class will first check if the note has been saved. After which, it will go into syncNote. Essentially, it will synchronize the note from the user's client and the server itself. It needs to take a parameter of the note's filename in order to know what file is being accessed.
EncryptNote	This control class will return a boolean that will say whether the note has been encrypted or not. It uses the encrypt key from when an account is created.

TransferObject Classes:

Class Name	Description
Account	This will return the account credentials. This can be used for accessing Turtl without the need to always enter the user's account credentials. It can also be used for encryption, as encryption is based upon the user's account.
NoteList	This is used to lay out the different notes in a board. This is especially useful for being able to know what notes are within a specific board, and it is beneficial to be able to place them systematically.
Note	This will be able to return the contents of the note itself. This transfers the data to be able for the user to properly read and understand the information that is being displayed and transferred from several sources of information in the application.
BoardList	This will list down all the different boards that are associated with an account. It will be able to lay out what different larger scaled notebooks there are in order to show organization within the system.
Board	This will return the different notes within the board itself. This is closely tied to note list but this will provide the name of the board along with a calling to note list to be able to be more specific regarding the transfer of the different note information.

List of Data Source:

Data Source Name: Accounts.csv

Description: Accounts.csv contains data about users' account information such as usernames and passwords.

Sample Source File:

Format: <AccountID>::<AccountName>:<username>:<password>

1::Mark Cruz:macruz28:ldkfgdi095

4::Jenny Santos:jenny_santos:zlxkcc450

10::Marie Domogan:mardomogan:094umvck

Data Source Name: Notes.csv

Description: Notes.csv contains data about users' notes.

Sample Source File:

Format:<AccountID>::<BoardName><NoteType>:<NoteContent>

2::Lists:4:

11::Images:5:

30::Links:6:

Data Source Name: Boards.csv

Description: Boards.csv contains data involving notes stored inside a board.

Sample Source File:

Format:<AccountID>::<BoardName>:<NumberOfNotes>

5::Lists:54

7::Images:79

9::Links:47
