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| **Step** | **Score** | **Implementation** |
| 1 | 5 | Use Laravel Authentication. Duplicated usernames are checked by using the unique:users rule in User model (User.php). Password is hashed with Hash::make function call |
| 2 | 5 | Use Mohsen\Captcha package: <https://packagist.org/packages/mohsen/captcha>. Limited to 4 characters by calling HTML::*image*(Captcha::*getImage*(4. |
| 3 | 5 | Reset password with random string (length of 6 characters). Reset password sent with SwiftMailer provided in Laravel. |
| 4 | 5 | Validation prompt email sent by SwiftMailer provided in Laravel. The users database has a field name ‘confirmed’ to indicate if the user already confirm the email. The log in will check this field, and the user can only log in if this ‘confirmed’ field is true. |
| 5 | 5 | The ‘users’ database has a field ‘attempts’ to record the login attempts for a user. Once ‘attempts’ hit 3, an break-in attempt email will be sent to user, and at the meantime, another field ‘locked’ will be set to true. The user then need to follow the instruction in the email to unlock the account. Once unlock (by setting the ‘locked’ to false, the ‘attempts’ field resets to 0. |
| 6 | 5 | ‘notes’ is stored in the ‘notes’ field of the Notes table. Display ‘notes’ routed to the ‘show’ action, while saving notes routed to the ‘update’ action in NotesController |
| 7 | 5 | ‘tbd’ is stored in the ‘tbd’ field in the Notes table. Display ‘tdb’ routed to the ‘show’ controller action, while saving notes routed to the ‘update’ controller action in NotesController |
| 8 | 5 | Hyper links are stored in the ‘hlinks’ field in the Notes table. Hyper links will be concatenated together (separated by tab) and stored in the ‘hlinks’ field as a string. The view (notes.show.blade.php) checks this field and break it down into links when applicable. In addition, 4 additional blank textboxes are generated for user to enter new links. Click on the existing link will open the link in a separate page/tab. |
| 9 | 5 | Images are stored as ‘img1’ to ‘img4’ fields in the Notes table. ‘img1’ to ‘img4’ are MYSQL MEDIUMBLOB datatype, and stored as based64 data. |
| 10 | 5 | ‘notes’ is stored in the notes field in the Notes table. Display ‘notes’ routed to the ‘show’ controller action, while saving notes routed to the ‘update’ controller action in NotesController. |
| 11 | 5 | ‘tbd’ is stored in the tbd field in the Notes table. Display ‘tdb’ routed to the ‘show’ controller action, while saving notes routed to the ‘update’ controller action NotesController. |
| 12 | 5 | Hyperlinks can be updated by highlighting the links. Note that clicking on the link will trigger an event to open the link. |
| 13 | 5 | The 4 images limited is imposed on the UI as well as the database, as the table only has 4 images blob fields. Each image has a separate file upload button if the image does not yet uploaded. Once an image is uploaded, a thumbnail will be shown in the Notes page, and the user can view the full image by clicking on the thumbnail. |
| 14 | 5 | This is validated by the Laravel rule: mimes:jpeg,gif |
| 15 | 5 | Click the ‘remove’ checkbox corresponding to the image and then click on the save button, then the corresponding image is wiped from the page and the database. The file upload button will be available again once the image is deleted |
| 16 | 5 | In my implementation, images are stored/retrieved from the database directly. |
| 17 | 5 | Destroys session when user clicks logout. Laravel supports this easily |
| 18 | 4.5 | Use laravel Route::group ([‘before’ => ‘auth’, function(){} to limit access to routes to the Notes. |
| 19 | 5 | Laravel framework auth handles this |
| 20 | 5 | Set expiration time of 20 minutes at Laravel config/session.php: ‘lifetime’ => 20 |