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| Test Case ID | Requirement | Precondition(s) | Steps | Test Data | Expected result | Actual Result | Pass/Fail | Tester |
| 1 | User registration | A unique email and password meeting requirements | User clicks register, then enters info | <valid email>  <valid password> | Account info is registered and saved | Same as expected | **Pass** | Travis Lamb |
| 2 | User login | A valid account | On login page, user enters email and password | <valid email>  <valid password> | User is logged in | Same as expected | **Pass** | Travis Lamb |
| 3 | User logout | A logged in account | After logout, pages should be inaccessible | Cookies, LocalStorage, and inability to access other pages | User is logged out | Same as expected | **Pass** | Travis Lamb |
| 4 | Change Password | A valid account | On forgot password page, user enters new password and emailed confirmation code | <username>  <confirmation code><new password> | User’s password is changed | Users password is changed | **Pass** | Travis Lamb |
| 5 | Verification Email | An account registration | User registration | <registration email> | User receives registration email | Email sent to user | **Pass** | Travis Lamb |
| 6 | Review Assignment Notification | A valid account and  a review | User is assigned to a review | <review notification> | User receives a notification on review assignment | None | **Fail** | Christina Nguyen |
| 7 | Review approval notification | A valid account and review | User’s review is approved | <review notification> | User receives a notification on review approval | None | **Fail** | Christina Nguyen |
| 8 | Review rejection notification | A valid account and review | User’s review is rejected | <review notification> | User receives a notification on review rejection | None | **Fail** | Christina Nguyen |
| 9 | The user can assign a code review | Two valid accounts and a review | A user can assign another to a review | <review>  <user email> | User is assigned to review | None | **Pass** | Michael Bloomquist |
| 10 | The user can view a diff between file versions | A valid account, file with version history | Provide filename for file on server | <filename>  <diff> | User is shown a diff for the given file name | Same as expected | **Pass** | Michael Bloomquist |
| 11 | The user can view diffs between all the file versions in one folder | A valid account and .git folder in a valid directory | Provide the .git folder directory | <.git folder>  <diff> | User is shown all current diffs of files | Same as expected | **Pass** | Sarah Ramazani |
| 11 | The user can leave inline comments on a review | A valid account assigned to a review | Select line to comment and press add inline comment button | <user email>  <review>  <inline comment> | An inline comment is left and visible on the review | Same as expected | **Pass** | Michael Bloomquist |
| 12 | The user can leave comments on a review (not inline) | A valid account assigned to a review | Press add comment button | <user email>  <review>  <comment> | A comment is left and visible on the review | None | **Pass** | Michael Bloomquist |
| 13 | Users assigned to a review can approve changes | A valid account assigned to a review | Press approve review button | <user email>  <review> | An approval is left and visible on the review | None | **Pass** | Michael Bloomquist |
| 14 | Users assigned to a review can reject changes | A valid account assigned to a review | Press reject review button | <user email>  <review> | A rejection is left and visible on the review | None | **Fail** | Michael Bloomquist |
| 15 | ReviewCreator retrieves diff from flask API | A valid filename | N/A | <filename>  <diff text> | The diff text is stored in the review creator | Same as expected | **Pass** | Michael Bloomquist |
| 16 | The ReviewCreator can create several different diffs | A valid filename | N/A | <filename>  <diff text> | Multiple DiffDisplay components can be rendered | Same as expected | **Pass** | Michael Bloomquist |
| 17 | DiffDisplay is collapsible | A rendered DiffDisplay | User presses +/- at topleft of diff | <diff text> | DiffDisplay component can be opened and closed | Same as expected | **Pass** | Michael Bloomquist |
| 18 | Diff formatting is consistent | A rendered DiffDisplay | N/A | <diff text> | Diff formatting is consistent from API to component | Line indices affect indentation | **Fail** | Michael Bloomquist |
| 19 | Cognito registration also pushes to DB | A valid user account defined by Cognito | Register new user as usual | <New user data> | DB retrieves new user | As expected | **Pass** | Travis Lamb |
| 20 | Users can “create review” by selecting file, data is pushed to DB | File to be pushed to DB | Go to projects page, select file, click create review | <file to be parsed for DB insertion> | DB retrieves new file data | Database receives blob, react.js processes blob | Pass | Travis Lamb |
| 21 | Users can “create review” by selecting file, data is pushed to DB | File to be pushed to DB | Go to projects page, select file, click create review | <file to be parsed for DB insertion> | DB retrieves new file data | Database receives all values correctly | Pass | Travis Lamb |
| 22 | The user can leave inline comments on a single line | A valid account and project file | Go to projects page and click on the line of code that the user wants to comment on | <Username> <comment message>  <user email> | A comment is on the projects page and in view | A comment appears under the desired line of code | Pass | Christina Nguyen |
| 23 | Hardcoded text is split and displayed on the page line by line | A valid account and a “project file” | Go to projects page and view project file on the page | <Hardcoded Text File> | Text is displayed on the page line by line according to the correct index | Text is displayed on the page line by line according to the correct index | **Pass** | Christina Nguyen |
| 24 | Database API receives new review and displays all user reviews | User exists in the database | User selects create review, selects file, confirms review | <File> | Review is received by database, database updates works\_on\_reviews table | Yeah it works.. after 1200 test cases where it didn’t lmao | **Pass** | Travis Lamb |
| 25 | EC2 Instance listens for http requests | EC2 instance is running | Send get request to apache2 routed api | <apache logs> | Get requests function properly | Same as expected | **Pass** | Michael Bloomquist |
| 26 | EC2 instance listens for https requests | EC2 instance is running, has valid SSL cert | Send post request to apache2 routed api | <apache logs> | Post requests function properly | Same as expected | **Pass** | Michael Bloomquist |
| 27 | Users can be invited to projects | All live sites are operational, user is inviting valid user, user has a project | User clicks invite to collaborate, enters valid username | <valid username><valid project> | User is invited to collaborate on project | User is invited to collaborate on project | **PASS** | Travis Lamb |
| 28 | Users can be invited to review a file | All live sites are operational, user is inviting valid user, user has a project, file exists in project | User clicks invite to review on project collaborator | <valid project>  <valid collaborator> | User is invited to review file, redirected on accept | As expected | **Pass** | Travis Lamb |
| 29 | Multiple comments can be at same index | A project has been created with a file | User clicks index button to submit comment multiple times | <valid project>  <diffDisplay component>  <diffLine component>  <comment> | Multiple comment components are created and displayed below the index commented at | As expected | **Pass** | Michael Bloomquist |
| 30 | State of comments is persistent | A project has been created with a file and a comment added | User navigates away and back to project | <valid project>  <diffDisplay component>  <diffLine component>  <comment> | Comment is still at project index after navigating away and back to project | Comment state is lost after navigating from page | **Fail** | Michael Bloomquist |
| 31 | Diffs are automatically generated on file update | A project has been created with a file added | User updates one of the files added | <valid project>  <flask app logs>  <EC2 filesystem> | Diff is generated between current and updated file | Same as expected | **Pass** | Michael Bloomquist |
| 32 | Diff history is stored in database | A file has been updated and the diff generated | User updates one of the files added | <valid project>  <DIFFS\_ON\_FILES table> | Diff is stored in DIFFS\_ON\_FILES table with datetime and associated file | Same as expected | **Pass** | Michael Bloomquist |
| 33 | Diffs are displayed to user in a UI component | A file has been updated and the diff generated | User updates one of the files added | <valid project>  <diffLine component>  <diffDisplay component> | Diff is displayed to the user using UI components | Same as expected | **Pass** | Michael Bloomquist |
| 34 | The user can leave inline comments on **multiple** lines of code | A valid account and a project file | Go to projects page/file and highlight the lines of code that the user wants to comment on | <Username> <comment message>  <user email> | A comment is on the projects page and in view | There is an option to comment on multiple lines, but no actual comment appears yet | **Fail** | Christina Nguyen |
| 35 | User can highlight multiple lines of code for a comment option | A valid account and a project file | Go to projects page/file and highlight the lines of code that the user wants to comment on | <Username> <comment message>  <user email> | A comment button appears when multiple lines are highlighted. When button is clicked, a comment box appears. | A comment button appears when multiple lines are highlighted. When button is clicked, a comment box appears. | **Pass** | Christina Nguyen |
| 36 | User has a unified diff option | Review has been created | Go to review and pick unified diff option | <review>  <unifiedDiff component>  <splitDiff component> | The user is displayed a unified diff | An interactable slider allows user to pick unified diff | **Pass** | Michael Bloomquist |
| 37 | User has a split diff option | Review has been created | Go to review and pick split diff option | <review>  <unifiedDiff component>  <splitDiff component> | The user is displayed a split diff | An interactable slider allows user to pick split diff | **Pass** | Michael Bloomquist |
| 38 | History page displays all the diffs on a file | There are diffs on a file | Update a file | <file>  <diffs on file> | The history page displays all the diffs | As expected | **Pass** | Travis Lamb |
| 39 | Invites work again | Project exists and user is invited to project | Type in a username | <Project>  <User> | The user is invited | As expected | **Pass** | Travis Lamb |
| 40 | Comments are unique for split and unified diffs | A review has been created for a file and comments have been added to diff | Add comments to left/right sides of split diff and to unified diff | <DiffDisplay component>  <Comment component> | Comments are unique to each different location | As expected | **Pass** | Michael Bloomquist |
| 41 | Multiple comments on same index (across diff components) | Multiple comments have been added to the same index | Add comments to left/right sides of split diff, and to unified diff, at same index | <DiffDisplay component>  <Comment component> | Comments are unique to each different location | Comments at same index are rendered in whichever component that index was first commented | **Fail** | Michael Bloomquist |
| 42 | User receives notifications on the task bar instead of on the homepage. | User has been invited to review or join a project | User logs in and visits any page. | <User>  <Project>  <Invite to Project/File Review> | User can view notifications by clicking the new notification button in navbar | As expected. | **Pass** | Travis Lamb |
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