

Test item	Points	Mark
1. Evidence of credible actions to finish by the due date {Up to 10 points}		
2. Authentication method: {total 10 points}		
2.a. Local authentication which uses email and password as credentials. {6 points}	6	6
2.a.i. Login page/area shows text entry fields for email and password.		x
2.a.ii. Entering an existing email and correct password shows successful login.		x
2.a.iii. Entering an email that is not known shows login was unsuccessful.		x
2.a.iv. Entering an incorrect password shows login was unsuccessful.		x
2.a.v. A mechanism is provided to update the password for an authenticated user.		x
2.a.vi. Login page/area shows a UI control for new account creation (NAC).		x
2.a.vii. Selecting NAC shows text entry fields for user name, email and password.		x
2.a.viii. During NAC, entering an email that associated with existing account gives an error		x
2.b. Input validation for email (proper format). {1 points}	1	1
2.b.i. Leaving the email field empty prompts the user to enter an email.		x
2.b.ii. Leaving password field empty prompts user to enter a password		x
2.b.iii. Invalid email address prompts user to enter a valid email		x
2.c. Verification of email for a new account. {2 points}	2	2
2.c.i. The user is instructed to click on the link to verify email		x
2.c.ii. User is either shown text or receives the email containing the link		x
2.c.iii. Clicking on the link shows a page that says email is validated		x
2.c.iv. If a user tries to log in without validating email, user is informed that the email has not been		x
2.d. Deactivated accounts. {1 points}	1	1
2.d.i. Logging in is disabled for accounts marked as “deactivated”.		x
2.d.ii. A message is shown to contact the administrator when attempting to log in.		x
3. Limited functionality for unauthenticated users: {total 25 points}		x
3.a. Start page showing application name, a short “about” blurb that says what the site of	2	2
3.a.i. Start page shows application name		x
3.a.ii. Start page shows a description of what the application does		x
3.a.iii. Start page shows a login button or a link		x
3.b. Interface for searching heroes. {8 points}	8	8
3.b.i. One or more mechanisms to enter all search terms and trigger the search.		x
3.b.ii. All entries that begin with each search term are shown.		x
3.b.iii. Each search result matches all the search terms.		x
3.b.iv. Empty search term matches all possible values for that field.		x
3.b.v. Name and publisher of each matching hero are shown, one per line.		x
3.c. Expand each search result to view the remaining information. {2 points}	2	2
3.c.i. Mechanism to view all available information of a search result.		x
3.c.ii. Name and publisher of other results remains visible.		x
3.d. Button for search on DDG {2 points}	2	2
3.d.i. A “Search” button is shown along each displayed track.		x
3.d.ii. Clicking on this button opens a new tab showing the DDG search page.		x
3.d.iii. Search page shows results of a search using the hero name and publisher.		x
3.e. Keywords are soft-matched {4 points}	4	
3.e.i. Keywords are matched regardless of capitalization.		
3.e.ii. Keywords are matched regardless of white-space.		
3.e.iii. Keywords are matched even when up to two characters are missing or different		
3.f. List of public lists (up to 10) {3 points}	3	3

3.f.i. Start page shows up to 10 public lists created by other users.		x
3.f.ii. Any list that is marked as “private” is not shown.		x
3.f.iii. Each list shows the name of the list, creator’s nickname, number of heroes in each list and		x
3.f.iv. Creator’s email is not shown anywhere on the application.		x
3.f.v. list is ordered by the last-modified date.		x
3.f.vi. No aspect of a list is modifiable.		x
3.g. Ability to expand each list. {1 points}	1	1
3.g.i. Mechanism to expand information shown for each displayed list.		x
3.g.ii. When expanded, description and list of heroes are shown.		x
3.g.iii. Mechanism to reset the display back to what is shown in 3.f.ii.		x
3.g.iv. Race conditions such as modification, deletion and visibility changes by another user after		x
3.h. Ability to display additional information for each hero on a public list. {3 points}	3	3
3.h.i. Mechanism to show additional data as in 3.c for each hero in the list.		x
3.h.ii. Mechanism to reset the display back to what is shown in 3.f.ii.		x
3.h.iii. Race conditions indicated in 3.g.iv are handled gracefully.		x
4. Additional functionality for authenticated users: {total 24 points}		x
4.a. Create up to 20 named lists of heroes. {10 points}	10	10
4.a.i. A mechanism to view all the lists created by the user.		x
4.a.ii. Users are prevented from creating a list with the same name in their lists.		x
4.a.iii. Mechanism to add an optional description.		x
4.a.iv. Mechanism to set the visibility to “public”.		x
4.a.v. Visibility indicator is not set to public when creating a new list.		x
4.a.vi. Mechanism to save the newly created list.		x
4.a.vii. Users are not allowed to save a list if a required attribute is missing.		x
4.a.viii. Upon saving, the new list appears on the lists created by the user.		x
4.b. Show full information about a list. {2 points}	2	
4.b.i. Clicking on a list created by the user shows all the information about it.		
4.c. Edit all aspects of an existing list. {4 points}	4	
4.c.i. Mechanism to show names of lists created by the user.		x
4.c.ii. Mechanism to select a list for editing.		x
4.c.iii. Ability to edit all aspects of a list and save the changes.		
4.c.iv. Ability to add or remove entries from the list.		
4.c.v. Not able to add an entry that doesn’t exist.		x
4.c.vi. Saved changes appear on all applicable views (summary vs detailed) of the list.		x
4.c.vii. Updated date is changed to the time of saving the modified information.		x
4.c.viii. If the list is public, then sort order in 3.f.v reflects the new modification time.		x
4.c.ix. A user is not able to view or edit any aspect of a list that the user does not own eve		x
4.d. Delete a list.{2 points}	2	2
4.d.i. A mechanism to select a list for deletion.		x
4.d.ii. A mechanism to ask for confirmation before deleting a list.		x
4.d.iii. Upon confirmation, the list is deleted and the change is immediately reflected.		x
4.d.iv. If the confirmation is declined, the list is not deleted.		x
4.d.v. A user is not able to delete a list in a way similar to 4.c.ix.		x
4.e. Add a review to a list. {6 points}	6	6
4.e.i. Mechanism to select a list for adding a review.		x
4.e.ii. Mechanism to enter a rating for the selected list.		x
4.e.iii. Mechanism to enter a comment for the selected list.		x

4.e.iv. Mechanism to save the review upon confirmation.		x
4.e.v. User name and the creation date of the review are saved along with the review.		x
5. Administrator functionality related to site maintenance: {total 10 points}		
5.a. Special user with administrator access: {4 points}	4	
5.a.i. One specific username is designated as “administrator” (admin).		
5.a.ii. An initial password for the admin is set and can never log in without a password.		
5.b. Ability to grant admin privilege to one or more existing users: {2 points}	2	
5.b.i. A mechanism to grant admin privilege to any user-created account.		
5.b.ii. When an admin logs in, an indication of having SM privilege is always visible.		
5.b.iii. A normal user is not able to grant admin privilege to another user		
5.c. Ability to mark a review as hidden. {2 points}	2	
5.c.i. Admin is able to select any review and set the visibility to “hidden”.		
5.c.ii. A review with visibility set to “hidden” is not shown anywhere on the site.		
5.c.iii. Admin is able to remove the “hidden” status of a review.		
5.c.iv. A review with visibility status restored to default value is shown during subsequent views of the s		
5.d. Ability to mark a user as “deactivated”. {2 points}	2	
5.d.i. Admin is able to mark any user account as “deactivated”.		
5.d.ii. When a user tries to log in to an account that is marked as “deactivated”, login always fails with a		
5.d.iii. Admin is able to remove the “deactivated” mark from any account.		
5.d.iv. A user is able to log in to an account with the “deactivated” mark removed and perform al		x
6. Web service API: {total 10 points}		
6.a. Revise the API developed for lab 3 as necessary to provide required functionality. {6 p	6	6
6.a.i. The ReST API developed in lab 3 is used.		x
6.a.ii. The ReST API developed in lab 3 is extended/revised as needed.		x
6.b. Build your application using this API. {4 points}	4	4
6.b.i. Application is built using a REST API.		x
7. Administrator functionality related to copyright enforcement: {total 11 points}		x
7.a. Create a security and privacy policy that is publicly accessible. {2 points}	2	
7.a.i. SM is able to create the security and privacy policy.		
7.a.ii. SM is able to update the security and privacy policy.		
7.a.iii. A link that displays the privacy and security policy is provided.		
7.a.iv. The above link is visible for both authenticated and unauthenticated users.		
7.b. Create a DMCA notice & takedown policy that is publicly accessible. {2 points}	2	
7.b.i. SM is able to create the DMCA notice & takedown policy.		
7.b.ii. SM is able to update the DMCA notice & takedown policy.		
7.b.iii. A link that displays the DMCA notice & takedown policy is provided.		
7.b.iv. Contact information for sending any notices of infringement is provided.		
7.b.v. The above link is visible for both authenticated and unauthenticated users.		
7.c. Create an “acceptable use policy” (AUP) that is publicly accessible. {2 points}	2	
7.c.i. A mechanism is provided for the SM to create the AUP.		
7.c.ii. SM is able to update the AUP policy.		
7.c.iii. A link that displays the AUP is provided		
7.c.iv. The above link is visible for both authenticated and unauthenticated users		
7.d. Provide a DMCA takedown procedure and tools for the site administrator: {total 5 points}		
7.d.i. Document to describe the workflow and usage of tools. {1 point}	1	
7.d.i.1. A document that describes the workflow for implementing DMCA notice & takedown policy is pr		
7.d.i.2. This document contains the instructions for using the tools provided for implementing the DMC		

7.d.ii. Tools to log requests, notices, and disputes. {2 point}	2	
7.d.ii.1. A mechanism is provided to record any takedown request that is received along with the date and		
7.d.ii.2. A mechanism is provided to record any infringement notices that are sent along with the date and		
7.d.ii.3. A mechanism is provided to record any dispute claims that are received along with the date and		
7.d.iii. Tools to disable display of reviews with alleged copyright violations. {1 point}	1	
7.d.iii.1. Test items 5.c.i and 5.c.ii are successful.		
7.d.iv. Tools to restore any contested content. {1 point}	1	
7.d.iv.1. Test items 5.c.iii and 5.c.iv are successful.		
<b>Total</b>	<b>90</b>	<b>59</b>





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l the review that is being disputed.


