Group 6 Sprint 7 Report

1. UAT Test Cases

1.1 Test Cases List

ID	Name
TC01	Student uploads study material, material gets rejected by teacher, student re-uploads a revised version of material, revised material receives approval from teacher; material remains hidden from others before approval
TC02	Student searches for study material using various filter combinations (Courses, Materials, Tags)
TC03	Student switches interface language and verifies review content translation accuracy and persistence
TC04	Student downloads study materials of various sizes and checks system responsiveness and error handling
TC05	Student completes full account lifecycle with error handling and security validation
TC06	Student rates and comments on study materials, and verifies average rating update
TC07	Student completes study material lifecycle: finds a specific course, uploads a material, edits its title and description, then deletes it
TC08	Teacher creates a new course and uploads study material
TC09	Teacher approves or rejects uploaded materials with repeated actions; material remains hidden from others before approval
TC10	Teacher finds, downloads, approves, and leaves a review on a pending material under their course

1.2 Results Table

Tester	Test Case ID	Title	Execution Status (Pass/Fail)	Bug Found (Yes/No)	Notes
Santtu	TC01	Student uploads study material, material gets rejected by teacher, student re-uploads a revised version of material, revised material receives approval from teacher; material remains hidden from others before approval	Pass		
Santtu	TC02	Student searches for study material using various filter combinations (Courses, Materials, Tags)	Pass		
Santtu	TC03	Student switches interface language and verifies review content translation accuracy and persistence	Pass		
Santtu	TC04	Student downloads study materials of various sizes and checks system responsiveness and error handling	Fail	Yes	to be clear, after reconnecting, it does respond normally: but it doesnt communicate that the download ever failed
Santtu	TC05	Student completes full account lifecycle with error handling and security validation	Fail	Yes	doesn't inform, yet also doesn't register duplicate account and lets proceed
Santtu	TC06	Student rates and comments on study materials, and verifies average rating updates across multiple actions	Pass		

Santtu	TC07	Student completes study material lifecycle: finds a specific course, uploads a material, edits its title and description, then deletes it	Pass		
Santtu	TC08	Teacher creates a new course and uploads study material	Pass		
Santtu	TC09	Teacher approves or rejects uploaded materials with repeated actions; material remains hidden from others before approval	Pass		
Santtu	TC10	Teacher finds, downloads, approves, and leaves a review on a pending material under their course	Pass		
Armas	TC01	Student uploads study material, material gets rejected by teacher, student re-uploads a revised version of material, revised material receives approval from teacher; material remains hidden from others before approval	Pass		
Armas	TC02	Student searches for study material using various filter combinations (Courses, Materials, Tags)	Pass		
Armas	TC03	Student switches interface language and verifies review content translation accuracy and persistence	Pass		

Armas	TC04	Student downloads study materials of various sizes and checks system responsiveness and error handling	Fail	Yes	Application window is unresponsive during download
Armas	TC05	Student completes full account lifecycle with error handling and security validation	Fail	Yes	System doesn't inform that the e-mail is already taken
Armas	TC06	Student rates and comments on study materials, and verifies average rating updates across multiple actions	Pass		
Armas	TC07	Student completes study material lifecycle: finds a specific course, uploads a material, edits its title and description, then deletes it	Pass		
Armas	TC08	Teacher creates a new course and uploads study material	Pass		
Armas	TC09	Teacher approves or rejects uploaded materials with repeated actions; material remains hidden from others before approval	Pass		
Armas	TC10	Teacher finds, downloads, approves, and leaves a review on a pending material under their course	Pass		
Jiayue	TC01	Student uploads study material, material gets rejected by teacher, student re-uploads a revised version of material, revised material receives	Pass	No	

		approval from teacher; material remains hidden from others before approval			
Jiayue	TC02	Student searches for study material using various filter combinations (Courses, Materials, Tags)	Pass	No	
Jiayue	TC03	Student switches interface language and verifies review content translation accuracy and persistence	Pass	No	
Jiayue	TC04	Student downloads study materials of various sizes and checks system responsiveness and error handling	Fail	Yes	System becomes unresponsive during large file download. Download must restart from beginning after network interruption.
Jiayue	TC05	Student completes full account lifecycle with error handling and security validation	Fail	Yes	Duplicate email registration attempt lacks error message and incorrectly redirects to login page
Jiayue	TC06	Student rates and comments on study materials, and verifies average rating updates across multiple actions	Pass	No	
Jiayue	TC07	Student completes study material lifecycle: finds a specific course, uploads a material, edits its title and description, then deletes it	Pass	No	
Jiayue	TC08	Teacher creates a new course and uploads study material	Pass	No	
Jiayue	TC09	Teacher approves or rejects uploaded materials with	Pass	No	

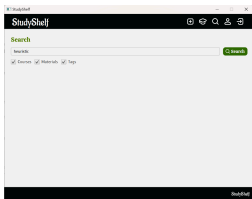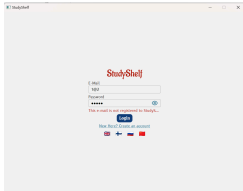|					
		repeated actions; material remains hidden from others before approval			
Jiayue	TC10	Teacher finds, downloads, approves, and leaves a review on a pending material under their course	Pass	No	

2. Bug Evaluation and Fixes

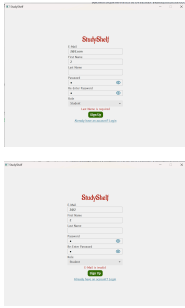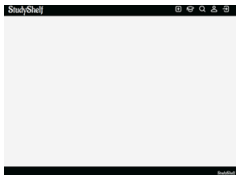| Bug ID	Related Test Case	Severity	Description	Status (Fixed/Not Fixed)
BUG-01	TC05	Medium	Duplicate email registration attempt lacks proper error message and incorrectly redirects user to login page without explanation.	Will be fixed for sprint 8
BUG-02	TC04	Medium	System becomes unresponsive during large file downloads.	Will be fixed for sprint 8
BUG-03	TC04	Low	Download must restart from beginning after network interruption.	Will be fixed for further development

3. Usability Heuristic Evaluation

Overall Heuristic Report					
Heuristic	**Total Amount of Issues Found**	**Total Severity of Issues Found**	**Overall Passability**		
H1-1: Simple & Natural Dialog	0	0	Passable		
H1-2: Speak the User's Language	1	0	Passable		
H1-3: Minimize users' memory load	1	2	Passable		
H1-4: Consistency	0	0	Passable		
H1-5: Feedback	4	8	Poor		
H1-6: Clearly Marked Exits	1	3	Not Good		
H1-7: Shortcuts	2	4	Not Good		
H1-8: Precise & Constructive Error Messages	5	6	Poor		
H1-9: Prevent Errors	3	6	Poor		
H1-10: Help & Documentation	2	3	Not Good		

Identified Issues						
No	Heuristic	Description of Issue	Screenshot if applicable	Severity	Suggested Improvements	Derived from the report of
1	H1-3: Minimize users' memory load	Navigation in navigation bar only through icons, may not be universally recognisable - user may need to memorize which page corresponds to what	⊞ ⌾ ⌕ ⌂ ⇥	2: Minor Usability Problem	Pair with text labels	Armas Nevolainen, Santtu Saaranen
2	H1-5: Feedback	During long operations like file upload and user login/creation, there's no clear feedback to user what is happening in system between pressing the button and successful upload		3: Major Usability Problem	Add progress bar to see upload progress / add loading spinner / disable the button and add a text label to communicate to user that it registered the press	Armas Nevolainen, Santtu Saaranen, Jiayue Zheng
3	H1-8: Precise & Constructive Error Messages	In file upload and course creation, there is a red star indicating which fields are required. However, the red star isn't explained to the user		1: Cosmetic Problem	Add a label "* = Required field"	Armas Nevolainen
4	H1-9: Prevent Errors	If teacher fills up material information to upload, but decides to make a course instead, the entered material data disappears (and vice versa)		2: Minor Usability Problem	The system could preserve previously entered data	Armas Nevolainen
5	H1-2: Speak the User's Language	The phrase "E-Mail is invalid" may be too technical and not user friendly		0: Not a Usability Problem	Use more polite language such as "Please enter a valid email address"	Jiayue Zheng

6	H1-8: Precise & Constructive Error Messages	Error label cuts off on login screen, when the entered e-mail isn't registered to StudyShelf		1: Cosmetic Problem	Expand error message field to allow longer strings (or multiline)	Jiayue Zheng
7	H1-5: Feedback	When a search query *doesn't* return any results, it is not communicated to the user at all		3: Major Usability Problem	Add a label such as "No results found!" when no results are found	Jiayue Zheng
8	H1-7: Shortcuts	Multiple forms (login, signup) don't support using ENTER-key to proceed		2: Minor Usability Problem	Make form submission possible from last text field of the form	Jiayue Zheng
9	H1-8: Precise & Constructive Error Messages	Message "This e-mail is not registered" does not suggest to the user what to do next		1: Cosmetic Problem	Error message could be reformatted to say "Re-check your e-mail or create new account"	Jiayue Zheng
10	H1-9: Prevent Errors	File Chooser allows uploading any kind of file, including potentially dangerous files, such as .bat		2: Minor Usability Problem	Decide and communicate which file types are allowed on StudyShelf, modify File Chooser to only accept those files	Jiayue Zheng

		files				
11	H1-8: Precise & Constructive Error Messages	In case of multiple issues in filling signup form, only one error message is displayed at a time		2: Minor Usability Problem	Display all relevant validation errors at once	Jiayue Zheng
12	H1-6: Clearly Marked Exits	Application has no backtracking. When visiting any page, there is no way to go back to the previous page the user was on		3: Major Usability Problem	Add breadcrumb at least on material, profile and course pages	Santtu Saaranen, Jiayue Zheng
13	H1-7: Shortcuts	No keyboard shortcuts for experienced users except tab navigation		2: Minor Usability Problem	Add keyboard shortcuts for repetitive tasks such as nav bar traveling	Santtu Saaranen
14	H1-5: Feedback	Focus attributes don't exist on some elements (such as clickable tags) when tab navigating		1: Cosmetic Problem	Modify CSS so at least the elements with hover effects have the same effect when focused	Santtu Saaranen
15	H1-5: Feedback	Lack of communication on courses page if there are no courses in the system - in fact, the whole page is empty		2: Minor Usability Problem	Add a heading regardless of amount of courses. In case of zero courses, add a "No Courses exist" label	Santtu Saaranen

16	H1-10: Help & Documentation	For a new user, there is zero guidance on how to use StudyShelf		1: Cosmetic Problem	For a user that hasn't uploaded anything to StudyShelf, the front page could display a guide on how to get started (basic functionality: where to find materials, how to upload a material)	Santtu Saaranen
17	H1-9: Prevent Errors	No confirmation prompt when deleting an account besides a checkbox. On the other hand, other irreversible actions do have a confirmation prompt, so it would likely be expected		2: Minor Usability Problem	Add confirmation prompt when deleting an account	Santtu Saaranen
18	H1-8: Precise & Constructive Error Messages	When deleting an account, the user is redirected to the login screen. However, logging back in (with valid credentials of another account or a newly created one) isn't possible due to a bug. This is not communicated at all to the user.		1: Cosmetic Problem	Rather than adding an Error Message, the bug should be fixed	Santtu Saaranen
19	H1-10: Help & Documentation	Despite material upload page having a "ensure material follows StudyShelf rules" checkbox, the rules don't seem to exist anywhere to be read for the user		2: Minor Usability Problem	Checkbox label should have a hyperlink to rules page. Rules page should exist	Santtu Saaranen

Appendix

A1: Test Execution Record — Santtu

	Test cases for students			
Name	1. Student uploads study material, material gets rejected by teacher, student re-uploads a revised version of material, revised material receives approval from teacher; material remains hidden for students before approval			
Design Date	25/04/2025			
Preconditions	- A student account is successfully registered and logged into the system - A teacher account exists in the system and owns a course			

Executed by:	Santtu Saaranen			
Execution date:	27/04/2025			

Step	Action	Expected System Response	Pass / Fail	Comment
1	Student clicks the "Create" icon (first icon in the navigation bar)	System displays "Upload Material" page	pass	
2	Student clicks "Choose file" button	System opens "Add Material File" window	pass	
3	Student chooses .pdf file and clicks "Open" button	System closes "Add Material File" window, Chosen file name displayed on the right side of "Choose File" button	pass	
4	Student enters Title and Description in corresponding fields	System displays entered text in the fields	pass	
5	Student chooses the existing course in the dropdown	The course name is visibly selected in the drop-down menu	pass	
6	Student clicks the checkbox to accept conditions of StudyShelf	Checkbox is clicked	pass	

		Since all required fields are filled, the Upload button is no longer disabled		
7	(Optional) Student adds tags by entering text in the "Tags" field and pressing Enter	Added tags appear in a list below, where they can be deleted from	pass	
8	Student presses "Upload" -button	The material is uploaded to the system Student is redirected on the new material page	pass	
9	Teacher logs in system with teachers credentials	System redirects to home page with Course that have pending material	pass	
10	Teacher clicks on Course name	System diplays to Course page with pending material	pass	
11	Teacher clicks "X" icon	System removes pending material from Course page	pass	
12	Student navigates to Course page	System displays Course page without uploaded material	pass	
13	Student navigates to Profile page and clicks on material in My Materials section	System shows Material page with message that material is rejected	pass	
14	Student navigates to the "Upload Material" page	System displays "Upload Material" page	pass	
15	Student clicks "Choose file" button	System opens "Add Material File" window	pass	

16	Student chose another pdf file and clicks "Open" button	System closes "Add Material File" window, Chosen file displayed on the right side of "Choose File" button	pass	
17	Student enters Title and Description in corresponding fields, chooses Course, accepts conditions of StudyShelf and clicks "Upload" button	System displays entered text in the fields System marks the checkbox as checked System uploads the material and redirects to Material page	pass	
18	Teacher clicks on Course name	System redirects to Course page with pending material	pass	
19	Teacher clicks "V" icon	System displays Course page without Pending Materials	pass	
20	Student navigates to Course page	System displays uploaded material on course page	pass	
Post-condition	Study material is uploaded and visible for all users			
Name	2. Student searches for study material using various filter			

	combinations (Courses, Materials, Tags)			
Design Date	25/04/2025			
Preconditions	- A student account is successfully registered and logged into the system. - Course exists: "Java Course" - Study Material A exists: any file, titled "Java Basics", any description, no tags, under "Java Course" - Study Material B exists: any file, titled "About Software Development", tagged as "Java", under "Java Course"			
Executed by:	Santtu Saaranen			
Execution date:	27/04/2025			
Step	**Action**	**Expected System Resoponse**	**Pass / Fail**	**Comment**

1	Click the "Go to Search" button on the bottom of the dashboard page.	The Search page is displayed All three filter option checkboxes should be selected by default (Courses, Materials, Tags)	pass	
2	Ensure all three filters (Courses, Materials, Tags) are checked.	Corresponding filter options remain selected.	pass	
3	Input the keyword "java" and click the "Search" button.	The system processes the search request and displays results, which should contain at least - "Java Basics" Study Material (by title) - "Java Course" Course - "Java" Tag	pass	
4	Click the tag result "Java", which should have a subtitle of "x materials with this tag"	System should redirect to a "Materials tagged by "Java"" -page This page should contain the Study Material "About Software Development"	pass	
5	Click the magnifying class button on the navigation bar to go back to the search page	The Search page is displayed All three filter option checkboxes should be selected by default (Courses, Materials, Tags)	pass	
6	Select only the Tags filter, uncheck Courses and Materials.	Only Tags filter is active for the search.	pass	

7	Input the keyword "Java" again, click the "Search" button.	Search results are shown "java" tag is one of the search results No study materials or courses are shown	pass	
8	Select the Courses filter	Both Courses and Tags filters are active.	pass	
9	Click the Search Button without modifying the text input	Search Results should refresh "java" Tag is one of the search results "Java Course" Course is one of the search results No study materials are shown in the search results	pass	
10	Select the Materials filter and deselect Tags and Courses filters	Only the materials filter is active	pass	
11	Click the Search Button without modifying the text input	Search Results should refresh "Java Basics" Study Material is one of the search results No tags or courses are shown in the search results	pass	
Post-condition	- The search system correctly handles and displays results based on the selected filter combinations (Courses, Materials, Tags).			

	- Results dynamically update when filters are toggled without needing to re-enter search keywords. - Study materials, courses, and tags matching the keyword are accurately shown or hidden according to the active filters. - No unrelated results appear outside the active filter scope.			
Name	3. Student switches interface language and translates reviews			
Design Date	26/04/2025			
Preconditions	- A student account is successfully registered. - Study material A exists in the system and is uploaded by someone other than the student account - While using a Russian interface, some account has left a review on it with text "Это очень хорошо"			

	- While using a Chinese interface, some account has left a review on it with text "好材料" - While using a Finnish interface, some account has left a review on it with text "Tämä on hyvä"			
Executed by:	Santtu Saaranen			
Execution date:	27/04/2025			

Step	Action	Expected System Resoponse	Pass / Fail	Comment
1	Open the StudyShelf login page.	Login page loads with default language (English)	pass	
2	Log into the system with the student account	After login, dashboard and menus are displayed in English	pass	
3	Find the card for StudyMaterial A and click it	Material page opens	pass	
4	Scroll down to Review Field, click any stars to set a score and write a review in English	Star color indicates the current score Text remains on the text field	pass	
5	Click upload button	Review writing space disappears	pass	

		English review appears under StudyMaterial A		
6	Click logout button (top right)	Confirmation prompt asks if you want to log out	pass	
7	Click "Yes" on the confirmation prompt	Be redirected to the Login page	pass	
8	Click on a different language icon (Finnish 🇫🇮, Russian 🇷🇺, Chinese 🇨🇳).	All UI text immediately updates to the selected language	pass	
9	Log into the system with the student account	After login, dashboard and menus are displayed in the selected language.	pass	
10	Find the card for StudyMaterial A and click it	Material page opens UI elements are in the selected language	pass	
11	Scroll down to Review section	There should be at least 4 reviews, all in different languages	pass	
12	Click the "Translate to [target language]" icon button near the review section.	The review in chosen language should remain the exact same The reviews in other languages should be translated to the chosen language "Translate to [target language]" button's label has become "Show original"	pass	

13	Click "Show Original" to revert to the original review text.	All of the reviews are back to their original language "Show original" button's label has become "Translate to [target language]"	pass	
Post-cond ition	- The interface language remains consistent with the user's last selected language even after re-login. - Reviews in different languages are accurately displayed and can be translated into the selected interface language. - The system allows toggling between the translated version and the original review text without errors. - Translation buttons correctly update their label to "Show original" after translation.			
Nam e	4. Student downloads study materials of various sizes and checks system responsiveness and error handling			

Design Date	25/04/2025			
Preconditions	- A student account is successfully registered and logged into the system. - Study materials of various file sizes (small, medium, large) exist in the system.	!!NOTE!! precondition fails. uploading "large" files sometimes freezes application, exact limit unclear		
Executed by:	Santtu Saaranen			
Execution date:	27/04/2025			

Step	Action	Expected System Resoponse	Pass / Fail	Comment
1	Click the "Courses" icon in the top navigation bar. Navigate to the courses list page with listing study materials.	Course list page opens, showing all available courses	pass	
2	Select a course that contains study materials.	Course displays study materials under that course.	pass	

#	Step	Expected Result	Status	Notes
3	Select and click a small-sized (1-1024 KB) study material.	Study material page opens, showing the details of the study material.	pass	
4	Click the Download button for the small-sized material.	Download starts immediately and completes successfully without freezing the page.	pass	
5	Select and click a medium-sized (1-100 MB) or larger(100 MB - 1 GB) study material.	Study material page opens, showing the details of the study material.	pass	
6	Click the Download button for the medium-sized or larger material.	The download begins smoothly; the system does not freeze or error out.	pass	medium file: OK, larger file: freezes
7	Repeat downloading different files to simulate stress and monitor system response.	System continues to respond normally without performance degradation.	pass	
8	Attempt downloading multiple files quickly one after another.	All downloads initiate correctly; system maintains stable performance.	pass	
9	Attempt downloading when network connection is unstable (simulate).	System continues to respond normally once internet connection is restored.	fail	to be clear, after reconnecting, it does respond normally: but it doesnt communicate that the download ever failed
Post-condition	The student successfully downloads study materials of various sizes.			

Name	5. Student completes full account lifecycle with error handling and security validation				
Design Date	26/04/2025				
Preconditions	- No existing account with the email address test@test.com				
Executed by:	Santtu Saaranen				
Execution date:	27/04/2025				

Step	Action	Expected System Resoponse	Pass / Fail	Comment
1	Launch StudyShelf	System displays Login page	pass	
2	Click "Create an account" link.	Registration form page opens requesting email, password, and other information.	pass	

3	Enter the e-mail "test@test.com" on e-mail field, and any first name and last name on corresponding fields	Text persists on text fields after moving to other text field	pass	
4	Enter the same password on both the "Password" and "Re-enter Password" fields	Password is hidden	pass	
5	Click the eye icon on both of the aforementioned fields	Passwords are visible	pass	
6	Select either of the roles in the drop-down menu	Selection is visible	pass	
7	Click registration button	Account is created User is redirected to the login page	pass	
8	Repeat steps 2-7 (with the same e-mail address) and click registration button	System should inform that the e-mail is already taken and not register the account	fail	doesn't inform, yet also doesn't register duplicate account and lets proceed
9	Go back to login screen Enter e-mail "test@test.com" and provide a wrong password	System shows "wrong password" error message; prevents access	pass	
10	Enter the correct password you wrote earlier	Login succeeds; homepage is displayed.	pass	
11	Click fourth icon (profile) on the navigation bar	Redirected to "My Profile" -page	pass	
12	Click "Profile Settings" on the sidebar	Redirected to "Profile Settings" -page	pass	
13	Attempt to reset password.	Password reset succeeds	pass	this step is here twice in practice...

14	Change the input on first name and last name fields	Both fields should have a "Save" on the right of them	pass	
15	Click Save button for both of the fields	Save buttons change to grey "V" buttons when clicked	pass	
16	Click the StudyShelf logo to be redirected on the front page	Home page is displayed The new names are displayed in the Welcome-message at the top	pass	
17	Repeat steps 11-12 to go to Profile Settings	Redirected to "Profile Settings" -page	pass	
18	Enter the old password on the "Old Password" field and a new password on "New Password" field	Both fields are filled Field contents are hidden by default, but can be shown via the eye icon	pass	
19	Click "Change Password"	"Password changed successfully" -feedback message should appear	pass	
20	Log out via the log out link in the sidebar, press "Yes" on the confirmation prompt	User session ends and system displays the login page	pass	
21	Enter the correct email and previous password, press Login	System shows "wrong password" error message; prevents access	pass	
22	Login with correct email and new password.	Login succeeds; homepage is displayed.	pass	
23	Repeat step 11 to go to Profile page	Redirected to "My Profile" -page	pass	

24	Click "Delete account" on the sidebar	Redirected to "Delete account" -page	pass	
25	Check the confirmation checkbox on the page	"Delete Account" -button is no longer disabled	pass	
26	Click "Delete Account"	Account is deleted Redirected to login -page	pass	
Post-condition	Account with the e-mail "test@test.com" doesn't exist in the system			
Name	6. Student rates and comments on study materials, and verifies average rating update			
Design Date	25/04/2025			
Preconditions	- A student account is successfully registered and logged into the system. - Study materials exist in the system.			
Executed by:	Santtu Saaranen			

		27/04/2025			
Execution date:					
Step	**Action**	**Expected System Resoponse**	**Pass / Fail**	**Comment**	
1	Navigate to a course that has approved study materials.	Course page displays a list of available study materials.	pass		
2	Select and open a study material that is available for rating and reviewing.	Material detail page opens with a visible rating section (stars) and review text area.	pass		
3	Click on a star rating to rate the material.	Rating selection is visually updated (stars highlighted).	pass		
4	Write a review comment into the provided text box.	The comment is entered into the input field without issues.	pass		
5	Click "Send Review" button.	Review appears under the material; average rating recalculates if necessary.	pass		
6	Log out and log back in to verify persistence.	Previously submitted rating and comment remain visible; average rating is consistent.	pass		

Post-condition	- Student's rating and comment are stored and persist between sessions. - The system correctly updates and displays the average rating after each change. - User is allowed to modify their own rating/comment but not others'. - Comment and rating are visible to all users once submitted.			
Name	7. Student completes study material lifecycle: finds a specific course, uploads a material, edits material name and description, then deletes it			
Design Date	25/04/2025			
Preconditions	- A student account is successfully registered and logged into the system. - At least one course exists in the system to which materials can be uploaded.			

Executed by:	Santtu Saaranen			
Execution date:	27/04/2025			

Step	Action	Expected System Response	Pass / Fail	Comment
1	Navigate to Search page	System shows Search page	pass	
2	Enter course name in search textfield, uncheck Materials and Tags checkboxes and click Search button	Search page displays Course entered in search field	pass	
3	Click on Course	System redirects to Course page	pass	
4	Click on "Add Your Material to this Course" button	System redirects to Upload page	pass	
5	Choose file Enter file name in title field, check checkbox and click Upload button	System redirects to Material page	pass	
6	Click on Pen icon on the right of material name	System opens materail name editing textfield	pass	
7	Change Material name and click save icon	System displays Material page with changed material name	pass	

8	Click "Edit Desription" button	System opens Desription editing textfield	pass	
9	Change Material description and click "Save Description" button	System displays Material page with changed material description	pass	
10	Click trashcan icon and confirm material deletion in pop up dialog	System redirects to Course page without deleted material	pass	
Post-condition	- The uploaded study material is successfully added to the selected course. - Changes to the material's title and description are saved and reflected correctly in the system. - After deletion, the material is no longer visible in the course material listing. - No residual data or broken links remain for the deleted material.			
	Test cases for teachers			

Name	8. Teacher creates a new course and uploads study material			
Design Date	23/04/2025			
Preconditions	A teacher account is successfully registered and logged into the system.			
Executed by:	Santtu Saaranen			
Execution date:	27/04/2025			

Step	Action	Expected System Resoponse	Pass / Fail	Comment
1	Teacher navigates to the "Upload Material" page	System displays "Upload Material" page with option to create a new course	pass	
2	Teacher writes new course name in "Course Name" field	System validates the input field in real time and enables the "Create Course" button	pass	
3	Teacher clicks "Create Course" button to create the course	System saves the new category to the database	pass	

		System redirects to Course Page with button "Add Your Material to this Course"		
4	Teacher clicks "Add Your Material to this Course" button	System redirects to "Upload Material" page	pass	
5	Teacher clicks "Choose file" button	System opens "Add Material File" window	pass	
6	Teacher chose pdf file and clicks "Open" button	System closes "Add Material File" window, Chosen file displayed on the right side of "Choose File" button	pass	
7	Teacher enters Title and Description in corresponding fields, accepts conditions of StudyShelf and clicks "Upload" button	System displays entered text in the fields System marks the checkbox as checked System uploads the material and redirects to Material Page.	pass	
Post-cond ition	Material is uploaded and visible for other users			
Nam e	9. Teacher approves or rejects uploaded materials with repeated			

	actions; material remains hidden from others before approval			
Design Date	25/04/2025			
Preconditions	- A teacher account is successfully registered and logged into the system. - Study materials uploaded by students are pending approval.			
Executed by:	Santtu Saaranen			
Execution date:	27/04/2025			

Step	Action	Expected System Resoponse	Pass / Fail	Comment
1	On the dashboard, locate the message "You have courses with pending materials".	List of pending study materials is displayed.	pass	
2	Click into the relevant course that contains pending materials.	Course page opens, showing a section labeled "Pending Materials".	pass	

3	Review the pending materials listed under Pending Materials.	Material details are displayed with options to Approve (√) or Reject (×).	pass	
4	Click the Reject (×) icon for a pending material.	Study material disappears and remains hidden from others.	pass	
5	Approve (√) another material from the pending list.	Approved materials appear under the corresponding course's "Materials from "Materials from Others" sections and become visible to all users.	pass	
6	Repeat the approval/rejection actions on additional materials to verify multiple cycles.	The "Pending Materials" section displays a confirmation message ("Relax! This course doesn't have materials waiting for your approval right now.") if no pending items remain. Each action updates the corresponding material's status accordingly. No errors occur during repeated operations.	pass	
7	Verify that materials not yet approved remain hidden from other users (except uploader and teacher).	Unapproved materials are not visible in general search or course listings.	pass	course row still displays pending or rejected materials, home + course page itself don't

Post-condition	- Approved materials are correctly displayed to all users in the course material listings. - Rejected materials are removed from the pending list and remain hidden from all users except the uploader. - No pending materials are shown if all have been processed.			

Name	10. Teacher finds, downloads, approves, and leaves a review on a pending material under their course			
Design Date	25/04/2025			
Preconditions	- A teacher account is successfully registered and logged into the system. - Study materials are uploaded to the teacher's course and awaiting approval.			
Executed by:	Santtu Saaranen			

Execution date:	27/04/2025			
Step	**Action**	**Expected System Resoponse**	**Pass / Fail**	**Comment**
1	Upon logging in, teacher sees a banner for a pending material in their course and clicks on it	System is redirected to the course page	pass	
2	Teacher clicks on the material title that is in the list of pending materials	System is redirected to the material page	pass	
3	Teacher clicks the download button	System opens dialogue to choose the download destination in the file system	pass	
4	Teacher saves the file	System closes file system dialogue and continues from the material screen	pass	
5	Teacher presses "Approve Material Button"	"Waiting for approval!" card closes The material is approved The new status of the material is shown on the screen	pass	
6	Teacher clicks stars to give it a numerical rating	Stars change color to indicate what score has been chosen	pass	

7	Teacher clicks the text box	Text box is visibly highlighted The cursor is on the textbox to indicate that writing is possible	pass	
8	Teacher types text and presses "Send Review"	Review writing dialogue disappears A new review with the input contents appears under "Reviews"	pass	
Post-condition	- Material has been approved and has a review from the course owner - Material can be found from the teacher's system files			

A2: Test Execution Record — Armas

	Test cases for students			

Name	1. Student uploads study material, material gets rejected by teacher, student re-uploads a revised version of material, revised material receives approval from teacher; material remains hidden for students before approval				
Design Date	25/04/2025				
Preconditions	- A student account is successfully registered and logged into the system - A teacher account exists in the system and owns a course				
Executed by:	Armas Nevolainen				
Execution date:	27/04/2025				

Step	Action	Expected System Response	Pass / Fail	Comment
1	Student clicks the "Create" icon (first icon in the navigation bar)	System displays "Upload Material" page	Pass	
2	Student clicks "Choose file" button	System opens "Add Material File" window	Pass	

3	Student chooses .pdf file and clicks "Open" button	System closes "Add Material File" window, Chosen file name displayed on the right side of "Choose File" button	Pass	
4	Student enters Title and Description in corresponding fields	System displays entered text in the fields	Pass	
5	Student chooses the existing course in the dropdown	The course name is visibly selected in the drop-down menu	Pass	
6	Student clicks the checkbox to accept conditions of StudyShelf	Checkbox is clicked Since all required fields are filled, the Upload button is no longer disabled	Pass	
7	(Optional) Student adds tags by entering text in the "Tags" field and pressing Enter	Added tags appear in a list below, where they can be deleted from	Pass	
8	Student presses "Upload" -button	The material is uploaded to the system Student is redirected on the new material page	Pass	
9	Teacher logs in system with teachers credentials	System redirects to home page with Course that have pending material	Pass	
10	Teacher clicks on Course name	System diplays to Course page with pending material	Pass	
11	Teacher clicks "X" icon	System removes pending material from Course page	Pass	

12	Student navigates to Course page	System displays Course page without uploaded material	Pass	
13	Student navigates to Profile page and clicks on material in My Materials section	System shows Material page with message that material is rejected	Pass	
14	Student navigates to the "Upload Material" page	System displays "Upload Material" page	Pass	
15	Student clicks "Choose file" button	System opens "Add Material File" window	Pass	
16	Student chose another pdf file and clicks "Open" button	System closes "Add Material File" window, Chosen file displayed on the right side of "Choose File" button	Pass	
17	Student enters Title and Description in corresponding fields, chooses Course, accepts conditions of StudyShelf and clicks "Upload" button	System displays entered text in the fields System marks the checkbox as checked System uploads the material and redirects to Material page	Pass	
18	Teacher clicks on Course name	System redirects to Course page with pending material	Pass	
19	Teacher clicks "V" icon	System displays Course page without Pending Materials	Pass	
20	Student navigates to Course page	System displays uploaded material on course page	Pass	
Post-condition	Study material is uploaded and visible for all users			

Name	2. Student searches for study material using various filter combinations (Courses, Materials, Tags)			
Design Date	25/04/2025			
Preconditions	- A student account is successfully registered and logged into the system. - Course exists: "Java Course" - Study Material A exists: any file, titled "Java Basics", any description, no tags, under "Java Course" - Study Material B exists: any file, titled "About Software Development", tagged as "Java", under "Java Course"			
Executed by:	Armas Nevolainen			
Execution date:	27/04/2025			

Step	Action	Expected System Response	Pass / Fail	Comment
1	Click the "Go to Search" button on the bottom of the dashboard page.	The Search page is displayed All three filter option checkboxes should be selected by default (Courses, Materials, Tags)	Pass	
2	Ensure all three filters (Courses, Materials, Tags) are checked.	Corresponding filter options remain selected.	Pass	
3	Input the keyword "java" and click the "Search" button.	The system processes the search request and displays results, which should contain at least - "Java Basics" Study Material (by title) - "Java Course" Course - "Java" Tag	Pass	
4	Click the tag result "Java", which should have a subtitle of "x materials with this tag"	System should redirect to a "Materials tagged by "Java"" -page This page should contain the Study Material "About Software Development"	Pass	
5	Click the magnifying class button on the navigation bar to go back to the search page	The Search page is displayed All three filter option checkboxes should be selected by default (Courses, Materials, Tags)	Pass	
6	Select only the Tags filter, uncheck Courses and Materials.	Only Tags filter is active for the search.	Pass	
7	Input the keyword "Java" again, click the "Search" button.	Search results are shown "java" tag is one of the search results No study materials or courses are shown	Pass	
8	Select the Courses filter	Both Courses and Tags filters are active.	Pass	

9	Click the Search Button without modifying the text input	Search Results should refresh "java" Tag is one of the search results "Java Course" Course is one of the search results No study materials are shown in the search results	Pass	
10	Select the Materials filter and deselect Tags and Courses filters	Only the materials filter is active	Pass	
11	Click the Search Button without modifying the text input	Search Results should refresh "Java Basics" Study Material is one of the search results No tags or courses are shown in the search results	Pass	
Post-c onditi on	- The search system correctly handles and displays results based on the selected filter combinations (Courses, Materials, Tags). - Results dynamically update when filters are toggled without needing to re-enter search keywords. - Study materials, courses, and tags matching the keyword are accurately shown or hidden according to the active filters. - No unrelated results appear outside the active filter scope.			

Name	3. Student switches interface language and translates reviews			
Design Date	26/04/2025			
Preconditions	- A student account is successfully registered. - Study material A exists in the system and is uploaded by someone other than the student account - While using a Russian interface, some account has left a review on it with text "Это очень хорошо" - While using a Chinese interface, some account has left a review on it with text "好材料" - While using a Finnish interface, some account has left a review on it with text "Tämä on hyvä"			
Executed by:	Armas Nevolainen			
Execution date:	27/04/2025			

Step	Action	Expected System Response	Pass / Fail	Comment
1	Open the StudyShelf login page.	Login page loads with default language (English)	Pass	
2	Log into the system with the student account	After login, dashboard and menus are displayed in English	Pass	
3	Find the card for StudyMaterial A and click it	Material page opens	Pass	
4	Scroll down to Review Field, click any stars to set a score and write a review in English	Star color indicates the current score Text remains on the text field	Pass	
5	Click upload button	Review writing space disappears English review appears under StudyMaterial A	Pass	
6	Click logout button (top right)	Confirmation prompt asks if you want to log out	Pass	
7	Click "Yes" on the confirmation prompt	Be redirected to the Login page	Pass	
8	Click on a different language icon (Finnish 🇫🇮, Russian 🇷🇺, Chinese 🇨🇳).	All UI text immediately updates to the selected language	Pass	
9	Log into the system with the student account	After login, dashboard and menus are displayed in the selected language.	Pass	
10	Find the card for StudyMaterial A and click it	Material page opens UI elements are in the selected language	Pass	
11	Scroll down to Review section	There should be at least 4 reviews, all in different languages	Pass	

12	Click the "Translate to [target language]" icon button near the review section.	The review in chosen language should remain the exact same The reviews in other languages should be translated to the chosen language "Translate to [target language]" button's label has become "Show original"	Pass	
13	Click "Show Original" to revert to the original review text.	All of the reviews are back to their original language "Show original" button's label has become "Translate to [target language]"	Pass	
Post-condition	- The interface language remains consistent with the user's last selected language even after re-login. - Reviews in different languages are accurately displayed and can be translated into the selected interface language. - The system allows toggling between the translated version and the original review text without errors. - Translation buttons correctly update their label to "Show original" after translation.			

Name	4. Student downloads study materials of various sizes and checks system responsiveness and error handling				
Design Date	25/04/2025				
Preconditions	- A student account is successfully registered and logged into the system. - Study materials of various file sizes (small, medium, large) exist in the system.				
Executed by:	Armas Nevolainen				
Execution date:	27/04/2025				
Step	**Action**	**Expected System Response**	**Pass / Fail**	**Comment**	
1	Click the "Courses" icon in the top navigation bar. Navigate to the courses list page with listing study materials.	Course list page opens, showing all available courses	Pass		
2	Select a course that contains study materials.	Course displays study materials under that course.	Pass		

3	Select and click a small-sized (1-1024 KB) study material.	Study material page opens, showing the details of the study material.	Pass	
4	Click the Download button for the small-sized material.	Download starts immediately and completes successfully without freezing the page.	Pass	
5	Select and click a medium-sized (1-100 MB) or larger(100 MB - 1 GB) study material.	Study material page opens, showing the details of the study material.	Pass	
6	Click the Download button for the medium-sized or larger material.	The download begins smoothly; the system does not freeze or error out.	Fail	Application window is unresponsive during download
7	Repeat downloading different files to simulate stress and monitor system response.	System continues to respond normally without performance degradation.	Fail	Application window is unresponsive during download
8	Attempt downloading multiple files quickly one after another.	All downloads initiate correctly; system maintains stable performance.	Fail	Application not able to start download until previous download finishes
9	Attempt downloading when network connection is unstable (simulate).	System continues to respond normally once internet connection is restored.	Fail	Exception in thread "JavaFX Application Thread" java.lang.OutOfMemoryError: Java heap space
Post-condition	The student successfully downloads study materials of various sizes.			

Name	5. Student completes full account lifecycle with error handling and security validation			
Design Date	26/04/2025			
Preconditions	- No existing account with the email address test@test.com			
Executed by:	Armas Nevolainen			
Execution date:	27/04/2025			

Step	Action	Expected System Response	Pass / Fail	Comment
1	Launch StudyShelf	System displays Login page	Pass	
2	Click "Create an account" link.	Registration form page opens requesting email, password, and other information.	Pass	
3	Enter the e-mail "test@test.com" on e-mail field, and any first name and last name on corresponding fields	Text persists on text fields after moving to other text field	Pass	

4	Enter the same password on both the "Password" and "Re-enter Password" fields	Password is hidden	Pass	
5	Click the eye icon on both of the aforementioned fields	Passwords are visible	Pass	
6	Select either of the roles in the drop-down menu	Selection is visible	Pass	
7	Click registration button	Account is created User is redirected to the login page	Pass	
8	Repeat steps 2-7 (with the same e-mail address) and click registration button	System should inform that the e-mail is already taken and not register the account	Fail	Doesn't inform, redirects to login page
9	Go back to login screen Enter e-mail "test@test.com" and provide a wrong password	System shows "wrong password" error message; prevents access	Pass	
10	Enter the correct password you wrote earlier	Login succeeds; homepage is displayed.	Pass	
11	Click fourth icon (profile) on the navigation bar	Redirected to "My Profile" -page	Pass	
12	Click "Profile Settings" on the sidebar	Redirected to "Profile Settings" -page	Pass	
13	Attempt to reset password.	Password reset succeeds	Pass	
14	Change the input on first name and last name fields	Both fields should have a "Save" on the right of them	Pass	
15	Click Save button for both of the fields	Save buttons change to grey "V" buttons when clicked	Pass	

16	Click the StudyShelf logo to be redirected on the front page	Home page is displayed The new names are displayed in the Welcome-message at the top	Pass	
17	Repeat steps 11-12 to go to Profile Settings	Redirected to "Profile Settings" -page	Pass	
18	Enter the old password on the "Old Password" field and a new password on "New Password" field	Both fields are filled Field contents are hidden by default, but can be shown via the eye icon	Pass	
19	Click "Change Password"	"Password changed successfully" -feedback message should appear	Pass	
20	Log out via the log out link in the sidebar, press "Yes" on the confirmation prompt	User session ends and system displays the login page	Pass	
21	Enter the correct email and previous password, press Login	System shows "wrong password" error message; prevents access	Pass	
22	Login with correct email and new password.	Login succeeds; homepage is displayed.	Pass	
23	Repeat step 11 to go to Profile page	Redirected to "My Profile" -page	Pass	
24	Click "Delete account" on the sidebar	Redirected to "Delete account" -page	Pass	
25	Check the confirmation checkbox on the page	"Delete Account" -button is no longer disabled	Pass	
26	Click "Delete Account"	Account is deleted Redirected to login -page	Pass	

Post-condition	Account with the e-mail "test@test.com" doesn't exist in the system			
Name	6. Student rates and comments on study materials, and verifies average rating update			
Design Date	25/04/2025			
Preconditions	- A student account is successfully registered and logged into the system. - Study materials exist in the system.			
Executed by:	Armas Nevolainen			
Execution date:	27/04/2025			
Step	**Action**	**Expected System Response**	**Pass / Fail**	**Comment**

1	Navigate to a course that has approved study materials.	Course page displays a list of available study materials.	Pass	
2	Select and open a study material that is available for rating and reviewing.	Material detail page opens with a visible rating section (stars) and review text area.	Pass	
3	Click on a star rating to rate the material.	Rating selection is visually updated (stars highlighted).	Pass	
4	Write a review comment into the provided text box.	The comment is entered into the input field without issues.	Pass	
5	Click "Send Review" button.	Review appears under the material; average rating recalculates if necessary.	Pass	
6	Log out and log back in to verify persistence.	Previously submitted rating and comment remain visible; average rating is consistent.	Pass	
Post-condition	- Student's rating and comment are stored and persist between sessions. - The system correctly updates and displays the average rating after each change. - User is allowed to modify their own rating/comment but not others'. - Comment and rating are visible to all users once submitted.			

Name	7. Student completes study material lifecycle: finds a specific course, uploads a material, edits material name and description, then deletes it			
Design Date	25/04/2025			
Preconditions	- A student account is successfully registered and logged into the system. - At least one course exists in the system to which materials can be uploaded.			
Executed by:	Armas Nevolainen			
Execution date:	27/04/2025			

Step	Action	Expected System Response	Pass / Fail	Comment
1	Navigate to Search page	System shows Search page	Pass	
2	Enter course name in search textfield, uncheck Materials and	Search page displays Course entered in search field	Pass	

	Tags checkboxes and click Search button		Pass	
3	Click on Course	System redirects to Course page	Pass	
4	Click on "Add Your Material to this Course" button	System redirects to Upload page	Pass	
5	Choose file Enter file name in title field, check checkbox and click Upload button	System redirects to Material page	Pass	
6	Click on Pen icon on the right of material name	System opens materail name editing textfield	Pass	
7	Change Material name and click save icon	System displays Material page with changed material name	Pass	
8	Click "Edit Desription" button	System opens Desription editing textfield	Pass	
9	Change Material description and click "Save Description" button	System displays Material page with changed material description	Pass	
10	Click trashcan icon and confirm material deletion in pop up dialog	System redirects to Course page without deleted material	Pass	

Post-condition	- The uploaded study material is successfully added to the selected course. - Changes to the material's title and description are saved and reflected correctly in the system. - After deletion, the material is no longer visible in the course material listing. - No residual data or broken links remain for the deleted material.			
	Test cases for teachers			
Name	8. Teacher creates a new course and uploads study material			
Design Date	23/04/2025			
Preconditions	A teacher account is successfully registered and logged into the system.			

Executed by:	Armas Nevolainen			
Execution date:	27/04/2025			

Step	Action	Expected System Response	Pass / Fail	Comment
1	Teacher navigates to the "Upload Material" page	System displays "Upload Material" page with option to create a new course	Pass	
2	Teacher writes new course name in "Course Name" field	System validates the input field in real time and enables the "Create Course" button	Pass	
3	Teacher clicks "Create Course" button to create the course	System saves the new category to the database System redirects to Course Page with button "Add Your Material to this Course"	Pass	
4	Teacher clicks "Add Your Material to this Course" button	System redirects to "Upload Material" page	Pass	
5	Teacher clicks "Choose file" button	System opens "Add Material File" window	Pass	
6	Teacher chose pdf file and clicks "Open" button	System closes "Add Material File" window, Chosen file displayed on the right side of "Choose File" button	Pass	

7	Teacher enters Title and Description in corresponding fields, accepts conditions of StudyShelf and clicks "Upload" button	System displays entered text in the fields System marks the checkbox as checked System uploads the material and redirects to Material Page.	Pass	
Post-condition	Material is uploaded and visible for other users			
Name	9. Teacher approves or rejects uploaded materials with repeated actions; material remains hidden from others before approval			
Design Date	25/04/2025			
Preconditions	- A teacher account is successfully registered and logged into the system. - Study materials uploaded by students are pending approval.			
Executed by:	Armas Nevolainen			

Execution date:	27/04/2025			
Step	**Action**	**Expected System Response**	**Pass / Fail**	**Comment**
1	On the dashboard, locate the message "You have courses with pending materials".	List of pending study materials is displayed.	Pass	
2	Click into the relevant course that contains pending materials.	Course page opens, showing a section labeled "Pending Materials".	Pass	
3	Review the pending materials listed under Pending Materials.	Material details are displayed with options to Approve (√) or Reject (×).	Pass	
4	Click the Reject (×) icon for a pending material.	Study material disappears and remains hidden from others.	Pass	
5	Approve (√) another material from the pending list.	Approved materials appear under the corresponding course's "Materials from "Materials from Others" sections and become visible to all users.	Pass	
6	Repeat the approval/rejection actions on additional materials to verify multiple cycles.	The "Pending Materials" section displays a confirmation message ("Relax! This course doesn't have materials waiting for your approval right now.") if no pending items remain. Each action updates the corresponding material's status accordingly. No errors occur during repeated operations.	Pass	

	7	Verify that materials not yet approved remain hidden from other users (except uploader and teacher).	Unapproved materials are not visible in general search or course listings.	Pass	
Post-c onditi on		- Approved materials are correctly displayed to all users in the course material listings. - Rejected materials are removed from the pending list and remain hidden from all users except the uploader. - No pending materials are shown if all have been processed.			
Name		10. Teacher finds, downloads, approves, and leaves a review on a pending material under their course			
Desig n Date		25/04/2025			
Preco nditio ns		- A teacher account is successfully registered and logged into the system.			

	- Study materials are uploaded to the teacher's course and awaiting approval.			
Execu ted by:	Armas Nevolainen			
Execu tion date:	27/04/2025			

Step	**Action**	**Expected System Response**	**Pass / Fail**	**Comment**
1	Upon logging in, teacher sees a banner for a pending material in their course and clicks on it	System is redirected to the course page	Pass	
2	Teacher clicks on the material title that is in the list of pending materials	System is redirected to the material page	Pass	
3	Teacher clicks the download button	System opens dialogue to choose the download destination in the file system	Pass	
4	Teacher saves the file	System closes file system dialogue and continues from the material screen	Pass	
5	Teacher presses "Approve Material Button"	"Waiting for approval!" card closes The material is approved The new status of the material is shown on the screen	Pass	

6	Teacher clicks stars to give it a numerical rating	Stars change color to indicate what score has been chosen	Pass	
7	Teacher clicks the text box	Text box is visibly highlighted The cursor is on the textbox to indicate that writing is possible	Pass	
8	Teacher types text and presses "Send Review"	Review writing dialogue disappears A new review with the input contents appears under "Reviews"	Pass	
Post-condition	- Material has been approved and has a review from the course owner - Material can be found from the teacher's system files			

A3: Test Execution Record — Jiayue

	Test cases for students			

Name	1. Student uploads study material, material gets rejected by teacher, student re-uploads a revised version of material, revised material receives approval from teacher; material remains hidden for students before approval			
Design Date	25/04/2025			
Preconditions	- A student account is successfully registered and logged into the system - A teacher account exists in the system and owns a course			
Executed by:	Jiayue Zheng			
Execution date:	27/04/2025			
Step	Action	Expected System Response	Pass / Fail	Comment

1	Student clicks the "Create" icon (first icon in the navigation bar)	System displays "Upload File" page	Pass	System behavior matches expected result.
2	Student clicks "Choose file" button	System opens "Add Material File" window	Pass	System behavior matches expected result.
3	Student chooses .pdf file and clicks "Open" button	System closes "Add Material File" window, Chosen file name displayed on the right side of "Choose File" button	Pass	System behavior matches expected result.
4	Student enters Title and Description in corresponding fields	System displays entered text in the fields	Pass	System behavior matches expected result.
5	Student chooses the existing course in the dropdown	The course name is visibly selected in the drop-down menu	Pass	System behavior matches expected result.
6	Student clicks the checkbox to accept conditions of StudyShelf	Checkbox is clicked Since all required fields are filled, the Upload button is no longer disabled	Pass	System behavior matches expected result.
7	(Optional) Student adds tags by entering text in the "Tags" field and pressing Enter	Added tags appear in a list below, where they can be deleted from	Pass	System behavior matches expected result.
8	Student presses "Upload" -button	The material is uploaded to the system Student is redirected on the new material page	Pass	System behavior matches expected result.
9	Teacher logs in system with teachers credentials	System redirects to home page with Course that have pending material	Pass	System behavior matches expected result.
10	Teacher clicks on Course name	System diplays to Course page with pending material	Pass	System behavior matches expected result.
11	Teacher clicks "X" icon	System removes pending material from Course page	Pass	System behavior matches expected result.

12	Student navigates to Course page	System displays Course page without uploaded material	Pass	System behavior matches expected result.
13	Student navigates to Profile page and clicks on material in My Materials section	System shows Material page with message that material is rejected	Pass	System behavior matches expected result.
14	Student navigates to the "Upload Material" page	System displays "Upload Material" page	Pass	System behavior matches expected result.
15	Student clicks "Choose file" button	System opens "Add Material File" window	Pass	System behavior matches expected result.
16	Student chose another pdf file and clicks "Open" button	System closes "Add Material File" window, Chosen file displayed on the right side of "Choose File" button	Pass	System behavior matches expected result.
17	Student enters Title and Description in corresponding fields, chooses Course, accepts conditions of StudyShelf and clicks "Upload" button	System displays entered text in the fields System marks the checkbox as checked System uploads the material and redirects to Material page	Pass	System behavior matches expected result.
18	Teacher clicks on Course name	System redirects to Course page with pending material	Pass	System behavior matches expected result.
19	Teacher clicks "V" icon	System displays Course page without Pending Materials	Pass	System behavior matches expected result.
20	Student navigates to Course page	System displays uploaded material on course page	Pass	System behavior matches expected result.

Post-condition	Study material is uploaded and visible for all users			
Name	2. Student searches for study material using various filter combinations (Courses, Materials, Tags)			
Design Date	25/04/2025			
Preconditions	- A student account is successfully registered and logged into the system. - Course exists: "Java Course" - Study Material A exists: any file, titled "Java Basics", any description, no tags, under "Java Course" - Study Material B exists: any file, titled "About Software Development", tagged as "Java", under "Java Course"			

Executed by:	Jiayue Zheng			
Execution date:	27/04/2025			

Step	Action	Expected System Resoponse	Pass / Fail	Comment
1	Click the "Go to Search" button on the bottom of the dashboard page.	The Search page is displayed All three filter option checkboxes should be selected by default (Courses, Materials, Tags)	Pass	System behavior matches expected result.
2	Ensure all three filters (Courses, Materials, Tags) are checked.	Corresponding filter options remain selected.	Pass	System behavior matches expected result.
3	Input the keyword "java" and click the "Search" button.	The system processes the search request and displays results, which should contain at least - "Java Basics" Study Material (by title) - "Java Course" Course - "Java" Tag	Pass	System behavior matches expected result.
4	Click the tag result "Java", which should have a subtitle of "x materials with this tag"	System should redirect to a "Materials tagged by "Java"" -page This page should contain the Study Material "About Software Development"	Pass	System behavior matches expected result.
5	Click the magnifying class button on the navigation bar to go back to the search page	The Search page is displayed All three filter option checkboxes should be selected by default (Courses, Materials, Tags)	Pass	System behavior matches expected result.

6	Select only the Tags filter, uncheck Courses and Materials.	Only Tags filter is active for the search.	Pass	System behavior matches expected result.
7	Input the keyword "Java" again, click the "Search" button.	Search results are shown "java" tag is one of the search results No study materials or courses are shown	Pass	System behavior matches expected result.
8	Select the Courses filter	Both Courses and Tags filters are active.	Pass	System behavior matches expected result.
9	Click the Search Button without modifying the text input	Search Results should refresh "java" Tag is one of the search results "Java Course" Course is one of the search results No study materials are shown in the search results	Pass	System behavior matches expected result.
10	Select the Materials filter and deselect Tags and Courses filters	Only the materials filter is active	Pass	System behavior matches expected result.
11	Click the Search Button without modifying the text input	Search Results should refresh "Java Basics" Study Material is one of the search results No tags or courses are shown in the search results	Pass	System behavior matches expected result.
Post-condition	- The search system correctly handles and displays results based on the selected filter combinations (Courses, Materials, Tags). - Results dynamically update when filters are toggled			

	without needing to re-enter search keywords. - Study materials, courses, and tags matching the keyword are accurately shown or hidden according to the active filters. - No unrelated results appear outside the active filter scope.

Name	3. Student switches interface language and translates reviews
Design Date	26/04/2025
Preconditions	- A student account is successfully registered. - Study material A exists in the system and is uploaded by someone other than the student account - While using a Russian interface, some account has left a review on it with text "Это очень хорошо"

	- While using a Chinese interface, some account has left a review on it with text "好材料" - While using a Finnish interface, some account has left a review on it with text "Tämä on hyvä"			
Executed by:	Jiayue Zheng			
Execution date:	27/04/2025			

Step	Action	Expected System Resoponse	Pass / Fail	Comment
1	Open the StudyShelf login page.	Login page loads with default language (English)	Pass	System behavior matches expected result.
2	Log into the system with the student account	After login, dashboard and menus are displayed in English	Pass	System behavior matches expected result.
3	Find the card for StudyMaterial A and click it	Material page opens	Pass	System behavior matches expected result.
4	Scroll down to Review Field, click any stars to set a score and write a review in English	Star color indicates the current score Text remains on the text field	Pass	System behavior matches expected result.

5	Click upload button	Review writing space disappears English review appears under StudyMaterial A	Pass	System behavior matches expected result.
6	Click logout button (top right)	Confirmation prompt asks if you want to log out	Pass	System behavior matches expected result.
7	Click "Yes" on the confirmation prompt	Be redirected to the Login page	Pass	System behavior matches expected result.
8	Click on a different language icon (Finnish 🇫🇮, Russian 🇷🇺, Chinese 🇨🇳).	All UI text immediately updates to the selected language	Pass	System behavior matches expected result.
9	Log into the system with the student account	After login, dashboard and menus are displayed in the selected language.	Pass	System behavior matches expected result.
10	Find the card for StudyMaterial A and click it	Material page opens UI elements are in the selected language	Pass	System behavior matches expected result.
11	Scroll down to Review section	There should be at least 4 reviews, all in different languages	Pass	System behavior matches expected result.
12	Click the "Translate to [target language]" icon button near the review section.	The review in chosen language should remain the exact same The reviews in other languages should be translated to the chosen language "Translate to [target language]" button's label has become "Show original"	Pass	System behavior matches expected result.
13	Click "Show Original" to revert to the original review text.	All of the reviews are back to their original language "Show original" button's label has become "Translate to [target language]"	Pass	System behavior matches expected result.

Post-condition	- The interface language remains consistent with the user's last selected language even after re-login. - Reviews in different languages are accurately displayed and can be translated into the selected interface language. - The system allows toggling between the translated version and the original review text without errors. - Translation buttons correctly update their label to "Show original" after translation.			
Name	4. Student downloads study materials of various sizes and checks system responsiveness and error handling			
Design Date	25/04/2025			

Preconditions	- A student account is successfully registered and logged into the system. - Study materials of various file sizes (small, medium, large) exist in the system.			
Executed by:	Jiayue Zheng			
Execution date:	27/04/2025			
Step	**Action**	**Expected System Resoponse**	**Pass / Fail**	**Comment**
1	Click the "Courses" icon in the top navigation bar. Navigate to the courses list page with listing study materials.	Course list page opens, showing all available courses	Pass	System behavior matches expected result.
2	Select a course that contains study materials.	Course displays study materials under that course.	Pass	System behavior matches expected result.
3	Select and click a small-sized (1-1024 KB) study material.	Study material page opens, showing the details of the study material.	Pass	System behavior matches expected result.
4	Click the Download button for the small-sized material.	Download starts immediately and completes successfully without freezing the page.	Pass	System behavior matches expected result.

5	Select and click a medium-sized (1-100 MB) or larger(100 MB - 1 GB) study material.	Study material page opens, showing the details of the study material.	Pass	System behavior matches expected result.
6	Click the Download button for the medium-sized or larger material.	The download begins smoothly; the system does not freeze or error out.	Pass	The system became temporarily unresponsive during the large file download, but recovered and returned to normal after the download completed.
7	Repeat downloading different files to simulate stress and monitor system response.	System continues to respond normally without performance degradation.	Fail	The system became temporarily unresponsive during large file downloads and could not proceed with further actions.
8	Attempt downloading multiple files quickly one after another.	All downloads initiate correctly; system maintains stable performance.	Fail	The system became temporarily unresponsive during large file downloads and could not proceed with further actions.
9	Attempt downloading when network connection is unstable (simulate).	System continues to respond normally once internet connection is restored.	Fail	If the connection is interrupted, the download must be restarted from the beginning.
Post-condition	The student successfully downloads study materials of various sizes.			

Name	5. Student completes full account lifecycle with error handling and security validation				
Design Date	26/04/2025				
Preconditions	- No existing account with the email address test@test.com				
Executed by:	Jiayue Zheng				
Execution date:	27/04/2025				

Step	Action	Expected System Resoponse	Pass / Fail	Comment
1	Launch StudyShelf	System displays Login page	Pass	System behavior matches expected result.
2	Click "Create an account" link.	Registration form page opens requesting email, password, and other information.	Pass	System behavior matches expected result.
3	Enter the e-mail "test@test.com" on e-mail field, and any first name and	Text persists on text fields after moving to other text field	Pass	System behavior matches expected result.

		last name on corresponding fields			Pass	
4	Enter the same password on both the "Password" and "Re-enter Password" fields	Password is hidden	Pass	System behavior matches expected result.
5	Click the eye icon on both of the aforementioned fields	Passwords are visible	Pass	System behavior matches expected result.
6	Select either of the roles in the drop-down menu	Selection is visible	Pass	System behavior matches expected result.
7	Click registration button	Account is created User is redirected to the login page	Pass	System behavior matches expected result.
8	Repeat steps 2-7 (with the same e-mail address) and click registration button	System should inform that the e-mail is already taken and not register the account	Fail	No error message is displayed to inform about duplicate email; system redirects directly to login page.
9	Go back to login screen Enter e-mail "test@test.com" and provide a wrong password	System shows "wrong password" error message; prevents access	Pass	System behavior matches expected result.
10	Enter the correct password you wrote earlier	Login succeeds; homepage is displayed.	Pass	System behavior matches expected result.
11	Click fourth icon (profile) on the navigation bar	Redirected to "My Profile" -page	Pass	System behavior matches expected result.
12	Click "Profile Settings" on the sidebar	Redirected to "Profile Settings" -page	Pass	System behavior matches expected result.
13	Attempt to reset password.	Password reset succeeds	Pass	System behavior matches expected result.

14	Change the input on first name and last name fields	Both fields should have a "Save" on the right of them	Pass	System behavior matches expected result.
15	Click Save button for both of the fields	Save buttons change to grey "V" buttons when clicked	Pass	System behavior matches expected result.
16	Click the StudyShelf logo to be redirected on the front page	Home page is displayed The new names are displayed in the Welcome-message at the top	Pass	System behavior matches expected result.
17	Repeat steps 11-12 to go to Profile Settings	Redirected to "Profile Settings" -page	Pass	System behavior matches expected result.
18	Enter the old password on the "Old Password" field and a new password on "New Password" field	Both fields are filled Field contents are hidden by default, but can be shown via the eye icon	Pass	System behavior matches expected result.
19	Click "Change Password"	"Password changed successfully" -feedback message should appear	Pass	System behavior matches expected result.
20	Log out via the log out link in the sidebar, press "Yes" on the confirmation prompt	User session ends and system displays the login page	Pass	System behavior matches expected result.
21	Enter the correct email and previous password, press Login	System shows "wrong password" error message; prevents access	Pass	System behavior matches expected result.
22	Login with correct email and new password.	Login succeeds; homepage is displayed.	Pass	System behavior matches expected result.
23	Repeat step 11 to go to Profile page	Redirected to "My Profile" -page	Pass	System behavior matches expected result.
24	Click "Delete account" on the sidebar	Redirected to "Delete account" -page	Pass	System behavior matches expected result.

25	Check the confirmation checkbox on the page	"Delete Account" -button is no longer disabled	Pass		System behavior matches expected result.
26	Click "Delete Account"	Account is deleted Redirected to login -page	Pass		System behavior matches expected result.
Post-condition	Account with the e-mail "test@test.com" doesn't exist in the system				
Name	6. Student rates and comments on study materials, and verifies average rating update				
Design Date	25/04/2025				
Preconditions	- A student account is successfully registered and logged into the system. - Study materials exist in the system.				
Executed by:	Jiayue Zheng				

Execution date:	27/04/2025			
Step	**Action**	**Expected System Resoponse**	**Pass / Fail**	**Comment**
1	Navigate to a course that has approved study materials.	Course page displays a list of available study materials.	Pass	System behavior matches expected result.
2	Select and open a study material that is available for rating and reviewing.	Material detail page opens with a visible rating section (stars) and review text area.	Pass	System behavior matches expected result.
3	Click on a star rating to rate the material.	Rating selection is visually updated (stars highlighted).	Pass	System behavior matches expected result.
4	Write a review comment into the provided text box.	The comment is entered into the input field without issues.	Pass	System behavior matches expected result.
5	Click "Send Review" button.	Review appears under the material; average rating recalculates if necessary.	Pass	System behavior matches expected result.
6	Log out and log back in to verify persistence.	Previously submitted rating and comment remain visible; average rating is consistent.	Pass	System behavior matches expected result.
Post-condition	- Student's rating and comment are stored and persist between sessions. - The system correctly updates and displays the			

	average rating after each change. - User is allowed to modify their own rating/comment but not others'. - Comment and rating are visible to all users once submitted.			
 	 	 	 	
Name	7. Student completes study material lifecycle: finds a specific course, uploads a material, edits material name and description, then deletes it			
Design Date	25/04/2025			
Preconditions	- A student account is successfully registered and logged into the system. - At least one course exists in the system to which materials can be uploaded.			

Executed by:	Jiayue Zheng			
Execution date:	27/04/2025			

Step	Action	Expected System Response	Pass / Fail	Comment
1	Navigate to Search page	System shows Search page	Pass	System behavior matches expected result.
2	Enter course name in search textfield, uncheck Materials and Tags checkboxes and click Search button	Search page displays Course entered in search field	Pass	System behavior matches expected result.
3	Click on Course	System redirects to Course page	Pass	System behavior matches expected result.
4	Click on "Add Your Material to this Course" button	System redirects to Upload page	Pass	System behavior matches expected result.
5	Choose file Enter file name in title field, check checkbox and click Upload button	System redirects to Material page	Pass	System behavior matches expected result.
6	Click on Pen icon on the right of material name	System opens materail name editing textfield	Pass	System behavior matches expected result.
7	Change Material name and click save icon	System displays Material page with changed material name	Pass	System behavior matches expected result.

8	Click "Edit Desription" button	System opens Desription editing textfield	Pass	System behavior matches expected result.
9	Change Material description and click "Save Description" button	System displays Material page with changed material description	Pass	System behavior matches expected result.
10	Click trashcan icon and confirm material deletion in pop up dialog	System redirects to Course page without deleted material	Pass	System behavior matches expected result.
Post-condition	- The uploaded study material is successfully added to the selected course. - Changes to the material's title and description are saved and reflected correctly in the system. - After deletion, the material is no longer visible in the course material listing. - No residual data or broken links remain for the deleted material.			

Test cases for teachers

Name	8. Teacher creates a new course and uploads study material
Design Date	23/04/2025
Preconditions	A teacher account is successfully registered and logged into the system.
Executed by:	Jiayue Zheng
Execution date:	27/04/2025

Step	Action	Expected System Resoponse	Pass / Fail	Comment
1	Teacher navigates to the "Upload Material" page	System displays "Upload Material" page with option to create a new course	Pass	System behavior matches expected result.
2	Teacher writes new course name in "Course Name" field	System validates the input field in real time and enables the "Create Course" button	Pass	System behavior matches expected result.

3	Teacher clicks "Create Course" button to create the course	System saves the new category to the database System redirects to Course Page with button "Add Your Material to this Course"	Pass	System behavior matches expected result.
4	Teacher clicks "Add Your Material to this Course" button	System redirects to "Upload Material" page	Pass	System behavior matches expected result.
5	Teacher clicks "Choose file" button	System opens "Add Material File" window	Pass	System behavior matches expected result.
6	Teacher chose pdf file and clicks "Open" button	System closes "Add Material File" window, Chosen file displayed on the right side of "Choose File" button	Pass	System behavior matches expected result.
7	Teacher enters Title and Description in corresponding fields, accepts conditions of StudyShelf and clicks "Upload" button	System displays entered text in the fields System marks the checkbox as checked System uploads the material and redirects to Material Page.	Pass	System behavior matches expected result.
Post-condition	Material is uploaded and visible for other users			
Name	9. Teacher approves or rejects uploaded materials with repeated actions;			

	material remains hidden from others before approval			
Design Date	25/04/2025			
Preconditions	- A teacher account is successfully registered and logged into the system. - Study materials uploaded by students are pending approval.			
Executed by:	Jiayue Zheng			
Execution date:	27/04/2025			

Step	Action	Expected System Resoponse	Pass / Fail	Comment
1	On the dashboard, locate the message "You have courses with pending materials".	List of pending study materials is displayed.	Pass	System behavior matches expected result.
2	Click into the relevant course that contains pending materials.	Course page opens, showing a section labeled "Pending Materials".	Pass	System behavior matches expected result.

3	Review the pending materials listed under Pending Materials.	Material details are displayed with options to Approve (√) or Reject (×).	Pass	System behavior matches expected result.
4	Click the Reject (×) icon for a pending material.	Study material disappears and remains hidden from others.	Pass	System behavior matches expected result.
5	Approve (√) another material from the pending list.	Approved materials appear under the corresponding course's "Materials from "Materials from Others" sections and become visible to all users.	Pass	System behavior matches expected result.
6	Repeat the approval/rejection actions on additional materials to verify multiple cycles.	The "Pending Materials" section displays a confirmation message ("Relax! This course doesn't have materials waiting for your approval right now.") if no pending items remain. Each action updates the corresponding material's status accordingly. No errors occur during repeated operations.	Pass	System behavior matches expected result.
7	Verify that materials not yet approved remain hidden from other users (except uploader and teacher).	Unapproved materials are not visible in general search or course listings.	Pass	System behavior matches expected result.
Post-condition	- Approved materials are correctly displayed to all users in the course material listings. - Rejected materials are removed from the pending list			

	and remain hidden from all users except the uploader. - No pending materials are shown if all have been processed.			
Name	10. Teacher finds, downloads, approves, and leaves a review on a pending material under their course			
Design Date	25/04/2025			
Preconditions	- A teacher account is successfully registered and logged into the system. - Study materials are uploaded to the teacher's course and awaiting approval.			
Executed by:	Jiayue Zheng			

Execution date:	27/04/2025			
Step	Action	Expected System Resoponse	Pass / Fail	Comment
1	Upon logging in, teacher sees a banner for a pending material in their course and clicks on it	System is redirected to the course page	Pass	System behavior matches expected result.
2	Teacher clicks on the material title that is in the list of pending materials	System is redirected to the material page	Pass	System behavior matches expected result.
3	Teacher clicks the download button	System opens dialogue to choose the download destination in the file system	Pass	System behavior matches expected result.
4	Teacher saves the file	System closes file system dialogue and continues from the material screen	Pass	System behavior matches expected result.
5	Teacher presses "Approve Material Button"	"Waiting for approval!" card closes The material is approved The new status of the material is shown on the screen	Pass	System behavior matches expected result.
6	Teacher clicks stars to give it a numerical rating	Stars change color to indicate what score has been chosen	Pass	System behavior matches expected result.
7	Teacher clicks the text box	Text box is visibly highlighted The cursor is on the textbox to indicate that writing is possible	Pass	System behavior matches expected result.

	8	Teacher types text and presses "Send Review"	Review writing dialogue disappears A new review with the input contents appears under "Reviews"	Pass	System behavior matches expected result.
Post-condition		- Material has been approved and has a review from the course owner - Material can be found from the teacher's system files			