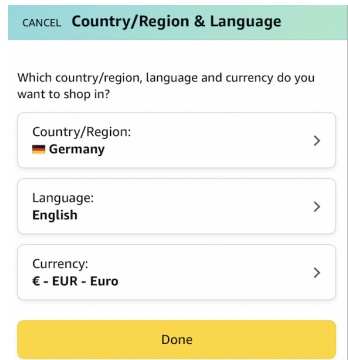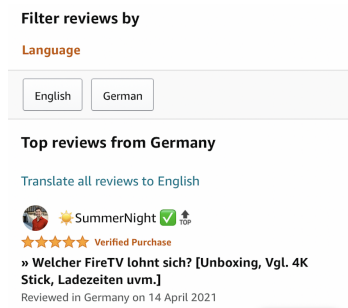# Ceren Caylak Appian Interview Task

Amazon Shopping is selected for the interview task. The customer review language filter feature is selected as an imagined major release.

Requirements

Imagine Amazon Shopping has a new feature that users can filter customer reviews by language. (It is already in Amazon, not a new feature, it has been chosen for this task)

New review filter feature requirements for this task are below:

ID	Description	Notes/Attachments
AMZ-CMT-001	Reviews should be filtered by the user's selected "Country/Region" language and selected "Language" preferences.	CANCEL **Country/Region & Language** Which country/region, language and currency do you want to shop in? Country/Region: 🇩🇪 **Germany** > Language: **English** > Currency: **€ - EUR - Euro** > Done
AMZ-CMT-002	Only reviews written in selected "Country/Region" language and selected "Language" should be listed to the user.	Ex: If the user selects Germany as "Country/Region" and English as "Language" product reviews should be listed in only English and German. **Filter reviews by** **Language** English German **Top reviews from Germany** Translate all reviews to English 🌟SummerNight ✅🔝 ★★★★★ **Verified Purchase** » Welcher FireTV lohnt sich? [Unboxing, Vgl. 4K Stick, Ladezeiten uvm.] Reviewed in Germany on 14 April 2021

AMZ-CMT-003	If the user updates the "Country/Region" and "Language", the listed product reviews language should change.	-
AMZ-CMT-004	If the user's "Country/Region" language is same as "Language" setting there should be no language filter for listed product reviews.	-

Test Plan

[Defined requirements](#) will be tested for the review language filter feature. The test process will include Unit & Integration, E2E, and non-functional tests.

Unit & Integration Tests

Unit & Integration tests will be implemented and maintained by backend engineers.

- Unit test coverage should be higher than 70%.
- JUnit will be used as a unit test framework.
- Unit tests should be executed and reported in the CI/CD process for each commit.

E2E Tests

E2E tests will be performed by quality assurance engineers.

- Defined E2E [Test Scenarios](#) will be run for each minor release on IOS, Android, and Web manually.
- After the first major release, E2E Test Scenarios will be automated and included in CI/CD process.

E2E Test Tools

- JIRA will be used as a ticket and bug management tool.
- Zephyr will be used as a test management (test case management, test execution, test report etc) tool.
- Manual test tools
    - Postman
    - Browser Stack
    - Android and IOS emulator
- API Test Automation Tools
    - Rest Assured
    - TestNG
- Web UI Test Automation Tools
    - Selenium
    - TestNG
- Mobile Test Automation Tools
    - Appium

Non-Functional Tests

Performance, Usability and Security tests will be performed for review filter feature before each major release. Performance tests will be performed by quality engineers, usability tests will be performed by design engineers and security tests will be performed by cyber security engineers.

Performance Test Tools

- Jmeter will be used as a performance test tool.
- Grafana will be used as a monitoring tool.
- Zephyr will be used as a test report tool.

Sample Test Scenarios

The list of sample test scenarios is listed below. According to the test plan, all test scenarios will be added to Zephyr. Scenarios "Test-SCN-01" and "Test-SCN-02" are presented as main test scenarios and "Test-SCN-03" is presented affected area scenario.

Test-SCN-01 Adding Customer Review Test

Verify that reviews are added and filtered according to selected "Country/Region" and "Language" settings.

Preconditions
- "Language" setting should be "English"
- "Country/Region" setting should be "Germany"
- There should be no reviews for the test product

	Test Steps	Expected Results	Requirement ID
1	Go to the test product page	User should see the test product page on the screen There should be no reviews related to the test product There should be no customer rating (yellow star)	
2	Add a customer review for the test product with the information below: ● Review in German ● Rating 5 ● With Video	Customer review should be added.	
3	Add a customer review for the test product with the information below: ● Review in English	Customer review should be added.	

	● Rating 3 ● With Image		
4	Add a customer review for the test product with the information below: ● Review in Italian ● Rating 2	Customer review should be added.	
5	Go to the test product page's "Customer Reviews" section	User should see added product reviews in "English" and "German" language. The user should see a review rating as "3.3" User should see added Video and Images.	[AMZ-CMT-001 [AMZ-CMT-002]
6	Go to "Language by Filter" and select "English"	User should see only "English" reviews on the list	
7	Go to "Language by Filter" and select "German"	User should see only "German" reviews on the list	
8	Clear "Language by Filter"	User should see product reviews in "English" and "German" language.	
9	Go to user reviews and update the written "English" review as "German" and add one new review for the test product with the information below: ● Review in English	Review should be updated and new review should be added.	
10	Go to the test product page's "Customer Reviews" section	User should see added product reviews in "English" and "German" language. User should see updated "German" review on the list. User should see added Video and Images.	
11	Go to "Language by Filter" and select "English"	User should see only "English" reviews on the list	
12	Go to "Language by Filter" and select "German"	User should see only "German" reviews on the list	
13	Clear "Language by Filter"	User should see product reviews in "English" and "German" language.	AMZ-CMT-001]

Test-SCN-02 Country/Region and Language Update Test

Verify that reviews are listed and filtered according to updated "Country/Region" and "Language" settings.

Preconditions

- English, German and Italian reviews should be added to the system.
- "Language" setting should be "English"
- "Country/Region" setting should be "Germany"

	Test Steps	Expected Results	Requirement ID
1	Go to a specific product page (ex: Kindle)	User should see the product page on the screen	
2	Go to "Customer Reviews" section	User should see product reviews in "English" and "German" language.	
3	Change "Language" setting to "Italian"	Language should be updated as Italian	[AMZ-CMT-003
4	Go to "Customer Reviews" section	User should see product reviews in "Italian" and "German" language.	
5	Go to "Language by Filter" and select "Italian"	User should see only "Italian" reviews on the list	
6	Go to "Language by Filter" and select "German"	User should see only "German" reviews on the list	
7	Clear "Language by Filter"	User should see product reviews in "Italian" and "German" language.	
8	Change "Country/Region" setting to "United Kingdom"	Country/Region should be updated as the United Kingdom	
9	Go to a specific product page (ex: Kindle)	User should see the product page on the screen	
10	Go to "Customer Reviews" section	User should see product reviews in "Italian" and "English" language.	
11	Go to "Language by Filter" and select "Italian"	User should see only "Italian" reviews on the list	
12	Go to "Language by Filter" and select "English"	User should see only "English" reviews on the list	
13	Clear "Language by Filter"	User should see product reviews in "Italian" and "English" language.	AMZ-CMT-003]
14	Change "Language" setting to "English"	Language should be updated as English	[AMZ-CMT-004
15	Go to a specific product page (ex: Kindle)	User should see the product page on the screen	
16	Go to "Customer Reviews" section	User should see product reviews in only "English" language.	AMZ-CMT-004]

		The user should not see any language filter option	

Test-SCN-03 Product Search Filter Test

Verify that the review filter feature is affecting product search filter options.

Preconditions
- "Language" setting should be "English"
- "Country/Region" setting should be "Germany"
- There should one product which has "English", "German" and "Italian" reviews and it should have a review rating as 5
- There should one product which has "English", "German" and "Italian" reviews and it should have a review rating as 4
- There should one product which has "English", "German" and "Italian" reviews and it should have a review rating as 3
- There should one product which has "English", "German" and "Italian" reviews and it should have a review rating as 2
- There should one product which has "English", "German" and "Italian" reviews and it should have a review rating as 1

	Test Steps	Expected Results	Requirement ID
1	Go to product search and use any filter.	All test products should be listed.	
2	Go to search filter and select "Customer Reviews" as "1 & Up"	All test products should be listed.	
3	Go to search filter and select "Customer Reviews" as "2 & Up"	All test products should be listed except the product which has rating 1.	
4	Go to search filter and select "Customer Reviews" as "3 & Up"	All test products should be listed except the products which have rating 1 and 2.	
5	Go to search filter and select "Customer Reviews" as "4 & Up"	The products which have rating 4 and 5 should be listed.	