Universität Zürich[UZH]
Institut für Informatik

ÜBUNG 5

Gruppe [3]
Tom Huber, 10-932-937
Alina Marti, 15-723-364
Elias Bernhaut, 14-735-773
Johanna Azevedo, 15-730-419

Aufgabe 1: Durchführung von Sprint 2

1.1: Das Ziel von Sprint 2 — **1 Punkt**

Goal of sprint 2:
Implementing the last critical requirements and start with implementing the important requirements. All tasks that were moved from the 1 to the 2 sprint should be finished. We hope to finish the important tasks, so that we can start with the unimportant requirements in sprint 3.

1.2: Durchführung von Sprint 2 — **8 Punkt**

Linkt to the project:
http://1-dot-itse16-149521.appspot.com
https://github.com/alpox/ITSE_16

What created extra effort?	User history	Why this one?
We got some problems with the functionality of the slider	S-3.2	Because this one depends on the slider
We got some problems with the functionality of the slider	S-9	Because this one depends on the slider

1.3: Testen — **7 Punkt**

a) We added some unit tests for the aggregation methods to check weather the methods work or not.

b&c)

1. Introduction

1.1. Purpose

For this tests we use functional oriented test. Our goal is to check every function that we have so far.

1.2. Test volume

We will check all the functions of Sprint 2. These are:

- Data can be filtered by city, country and measurement
- The aggregation function can be computed and will be shown in a label
- Inaccurate data can be removed from the view with a checkbox
- The allowed error can be specified with a textbox
- Areas with higher temperatures are coloured in a darker hue

1.3. Referenced documents

The csv-document in which the data is saved.

2. Test environment

2.1. Outline

The test is split in to six test sequences. Each sequence contains one of the functions, the application should have so far.

2.2. Test instruments

The test is made on windows 10. The tested browsers are google chrome and internet explorer and the app runs with eclipse.

2.3. Test data, test database

The required data are on a separate csv file, » GlobalLandTemperaturesByMajorCity_v1.csv», which we downloaded from OLAT.

2.4. Personnel requirement

For doing the test we need one person.

3. Criteria for acceptance

For a successfull test-completion, all the functions in mentioned in the test volume have to work. An interruption and resuming can be done if there where found some errors while testing. To break the test there has to be a fundamental error with which we cannot continue testing.

4. Test cases

Test section 2:

Purpose: All the functions have to be tested

1) Data can be filtered by city, country and measurement
2) The aggregation function can be computed and will be shown in a label
3) Inaccurate data can be removed from the view with a checkbox
4) The allowed error can be specified with a textbox
5) Areas with higher temperatures are coloured in a darker hue

Preparatory work: none

Clean-up: none

Notes: none

Test sequence 2-1: Data filter

Test case Nr.	Action	Expected result	Foundings
2-1-1	Search for Berlin in cities	Table shows all data from Berlin	Works
2-1-2	Search for London in countries	Table shows all data from London	Works

2-1-3	Search for 1955-01-01 in dates	Table shows all data of the 1th January 1955	Works
2-1-4	Search for 4.301 in average	Table shows all data with average 4.301	Works
2-1-5	Search for 5.019 in error	Table shows all data with the error 5.019	Works
2-1-6	Search for 42.59 in latitude	Table shows all data with latitude 42.59	Works
2-1-7	Search for -42.31 in longitude	Table shows all data with longitude -46.31	Works

Test sequence 2-2: Aggregation functions

Test case Nr.	**Action**	**Expected result**	**Foundings**
2-2-1	Select average in the first, median in the second dropdown list	Rounded: 20,428	20.42799949645996
2-2-2	Select error in the first, maximum in the second dropdown list	Rounded: 14,037	14.036999702453613
2-2-3	Select latitude in the first, minimum in the second dropdown list	Rounded: -37,78	-37.779998779296875
2-2-4	Select longitude in the first, average in the second dropdown list	Rounded: 43,991	43.990840911865234

Test sequence 2-3: Remove inaccurate data

Test case Nr.	**Action**	**Expected result**	**Foundings**
2-3	Select checkbox	Inaccurate data is removed	Works

Test sequence 2-4: Specifying allowed error

Test case Nr.	**Action**	**Expected result**	**Foundings**
2-4	Type 1,5 and select checkbox	All errors up to 1,5 are shown in the table	Works

Test sequence 2-6: Darker colours

Test case Nr.	**Action**	**Expected result**	**Foundings**

2-5	Select Map Visualization and move over the map	Higher temperatures have darker colour	Works

Aufgabe 2: Planung von Sprint 3

2.1: Erstellung der Sprint-Auftragsliste (Sprint Backlog) **2 Punkte**

Story-ID: S-3	Refers to requirement from a citizen
Story: As a citizen, I want to be able to see a chronological temperature profile on the map.	
Acceptance criteria: • ~~A world map shows the temperature for a specific date in different locations.~~ • The world map shows new temperature for a specified date chosen by moving the slider shown next to the map.	
Author: Elias Bernhaut	Date: 16.10.2016
Priority: Kritisch	Effort: 30 hours

Story-ID: S-5	Refers to requirement from scientist
Story: As a scientist, I want to be able to export the visualisations and data.	
Acceptance criteria: • The graphical visualisations can be exported as PNG or SVG. • The tabular visualisations can be exported as CSV.	
Author: Elias Bernhaut	Date: 16.10.2016
Priority: Kritisch	Effort: 4 hours

Story-ID: S-9	Refers to requirement from historian
Story: As a historian, I want to be able to select a specific year	
Acceptance criteria: • The year can be chosen by moving the slider on the map or selecting a year in the tabular view.	
Author: Alina Marti	Date: 16.10.2016
Priority: Kritisch	Effort: 2 hours

Story-ID: S-12	Refers to requirement to politician from Grüne
Story: As a politician, I want to compare the different values with some other.	
Acceptance criteria: • Comparison of different locations at certain times with each other.	
Author: Alina Marti	Date: 16.10.2016
Priority: nebensächlich	Effort: 10 hours

2.2: Aufgabenverteilung für Sprint 3 2 Punkte

Task Nr.	Geschichte Nr.	Taskbezeichnung	Aufwand	Person	Status
1	S-3.2	The world map shows new temperatures for a specific date by moving the slider	15 hours	Tom	All countries, average of one year, coloured representation
2	S-9	The year can be chosen by moving the silder or selecting a year in the table	2 hours	Tom	
3	S-5.1	The graphical visualisations can be exported as PNG or SVG.	2 hours	Alina	
4	S-5.2	The tabular visualisations can be exported as CSV.	2 hours	Johanna	
5	S-12	Comparison of different locations at certain times with each other.	10 hours	Elias	