

Acceptance Test Plan

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ATP-0.4.3151



Where innovation starts



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Abstract

This document is the Acceptance Test Plan (ATP) of GROUP QIS. This project is part of the Software Engineering Project (2IP35) and is one of the assignments at Eindhoven University of Technology. The document complies with the ATP from the Software Engineering Standard, as set by the European Space Agency [1].

This document provides the main guidance for the Acceptance Test phase for the QIS application. It describes the environment needed to perform the acceptance test. When this environment is set up, all test cases must be executed according to their corresponding test procedures and a report needs to be written. If all tests pass, the acceptance test phase can be finished successfully.

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Various	various	Minor changes to match gui optimizations.
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Chapter 1

Introduction

1.1 Purpose

This document describes the plan for testing QIS against the user requirements as defined in the URD[5]. The purpose of this test is to make sure that QIS complies with the requirements in the URD[5]. Therefore this document needs to be agreed upon by the QIS developers and the Department of Mathematics and Computer Science at Eindhoven University of Technology. These tests should be executed in the Acceptance Test (AT) phase of QIS as described in the European Space Agency (ESA) software engineering standard[1].

1.2 Overview

Chapter 2 mentions the items to be tested and the general criteria for the AT phase. A specification for each test case is given in chapter 3. The procedures for these test cases are explained in chapter 4. In chapter 5 the reports for all test cases are presented.

1.3 List of definitions

AT	Acceptance Test
ESA	European Space Agency
URD	User Requirements Document

1.4 List of references

- [1] ESA Board for Software Standardization and Control (BSSC). European space agency software engineering standards, February 1991. (ESA PSS-05-0 Issue 2).
- [2] GROUP QIS. Software user manual. Technical report, Eindhoven University of Technology, Computer Science, December 2009.

- [3] GROUP QIS. Software verification and validation plan. Technical report, Eindhoven University of Technology, Computer Science, September 2009.
- [4] GROUP QIS. Svvp - acceptance test plan. Technical report, Eindhoven University of Technology, Computer Science, 2009.
- [5] GROUP QIS. User requirements document. Technical report, Eindhoven University of Technology, Computer Science, September 2009.

Chapter 2

Test plan

2.1 Test items

The software to be tested is QIS. Information about the requirements on this system by the Department of Mathematics and Computer Science at Eindhoven University of Technology can be found in the URD[5].

2.2 Features to be Tested

QIS must meet the requirements as stated in the URD[5].

2.3 Test deliverables

Before the testing starts the following documents must be delivered:

- SVVP[3]
- URD[5]
- ATP[4] (chapters 1, 2, 3 and 4)
- AT input data
- QIS

After completing the testing the following documents must be delivered:

- AT report (ATP[4] chapter 5)
- AT output data
- Problem reports (if any)

2.4 Testing tasks

Before any testing in the AT phase can take place the following tasks need to be done:

- Designing the acceptance tests.
- Tracing all test cases to user requirements and/or use cases.
- Creation of the AT input data.
- Ensuring that all environmental needs for the AT have been satisfied.

When these tasks have been done an AT can be performed according to the procedures described in chapter 4.

2.5 Environmental needs

To be able to perform the AT the following resources are needed:

- A computer connected to the internet running Internet Explorer 7 and Firefox 3.5.
- A server running QIS.

Check that the mailbox of *n.sidorova@tue.nl* is available and make sure that all email from QIS is marked as *read*.

The computer is assumed to be present, the server is assumed to be set up by the Bureau for Computer Facilities according to the installation procedure provided in the SUM[2]. The URL to access this server installation is known by people executing this ATP and is intended to be used when asked to navigate to QIS.

2.6 Test case pass/fail criteria

Every test describes the criteria that should be met to pass a specific test. An overall AT pass can only be achieved if all tests described in chapter 3 have been performed and passed.

Chapter 3

Test case specifications

3.1 Installation & preparation

We assume the environment is set up as specified in section 2.5.

3.2 Login & NT

ATR1

UCR1, 3, 4, 160, 162, 163

- Open Firefox and Internet Explorer and navigate to QIS.
- Using Firefox, log in with user name *nsidorov* and password *wrongpassword*.
- Using Internet Explorer, log in with user name *nsidorov* and the NT password of Natalia Sidorova.

Passing criteria

- Upon visiting the URL where QIS is hosted, a login screen is shown.
- Firefox shows an error that the password is wrong.
- Internet Explorer shows the employee overview of Natalia Sidorova.
- No further errors occurred.

ATR2

UCR105, 106, 117, 118

- Click *Administrative*.
- Click *External connections*.
- Click *Disable*.
- Log out of QIS by clicking *logout* on the menu bar.
- Click *Log in again*.
- Log in again with user name *nsidorov* and password *doesnotmatter*.

Passing criteria

- Log in should fail.
- One email should arrive shortly after the login attempt in the mailbox of *n.sidorova@tue.nl*, containing a password for user *nsidorov*.
- No further errors occurred.

ATR3

UCR105, 106, 117

- Log in with user name *nsidorov* and the password of Natalia Sidorova, which was provided by email.

Passing criteria

- The employee overview of Natalia Sidorova is shown.
- No further errors occurred.

3.3 Add & edit administrative

ATR4

UCR165

- Click *Administrative* in the menu bar.
- Click *add* next to *System years*.
- Enter the following information:
 - Name: *2010-2011*.
 - Begins: *2010-09-01*.
 - Ends: *2011-08-31*.
 - Hours per fte: *1336*.
- Click *Save*.
- Click *»* in the top right corner.
- Click *Courses*.

Passing criteria

- The system year should be added successfully.
- In the top right should be noted *2010-2011*.
- The course list in the new year should be empty.
- No further errors occurred.

ATR5

UCR13

- Click *Administrative* in the menu bar.
- Click *System years*.
- Click *2010-2011*.
- Enter the following information:
 - Hours per fte: *1337*.
- Click *Save*.

Passing criteria

- The list of system years should contain year *2010-2011* .
- No further errors occurred.

ATR6
UCR33, 34

- Click *Administrative* in the menu bar.
- Click *Periods*.
- Click *Add period*.
- Enter the following information:
 - Name: *S2*
- Click *Save*.
- Click *S2*.
- Enter the following information:
 - Name: *S1*
- Click *Save*.

Passing criteria

- The *S1* period should be present in the periods overview.
- No further errors occurred.

ATR7

UCR35, 36, 37

- Click *Administrative* in the menu bar.
- Click *Subperiods*.
- Click *Add subperiod*.
- Enter the following information:
 - Name: *Q2*
 - Weeks: 12
 - Period: *S1*
- Click *Save and add another*.
- Enter the following information:
 - Name: *Q3*
 - Weeks: 12
 - Period: *S1*
- Click *Save*.
- Click *Q3*.
- Enter the following information:
 - Name: *Q1*
- Click *Save*.

Passing criteria

- The *Q1* and *Q2* subperiods should be present in the subperiods overview.
- No further errors occurred.

ATR8
UCR76, 78

- Click *Administrative* in the menu bar.
- Click *Departments*.
- Click *Add department*.
- Enter the following information:
 - Name: *Innovation & Life science*
- Click *Save*.
- Click *Innovation & Life science*.
- Change the name to *Innovation & Life sciences*.
- Click *Save*.

Passing criteria

- The department *Innovation & Life sciences* should be present in the list of departments.
- No further errors occurred.

ATR9
UCR67, 69

- Click *Administrative* in the menu bar.
- Click *Subdepartments*.
- Click *Add subdepartment*.
- Enter the following information:
 - Department: *Innovation & Life sciences*
 - Name: *Death sciences*
- Click *Save*.
- Click *Death sciences*.
- Enter the following information:
 - Name: *Life sciences*
- Click *Save*.

Passing criteria

- *Life sciences* should be in the list of subdepartments.
- No further errors occurred.

ATR10

UCR11, 12

- Click *Administrative* on the menu bar.
- Click *Rights*.
- Click *Add right*.
- Select the following information:
 - Rightset: *Mathematics Policy advisor*
 - Employee: *Sidorova, Natalia*
 - VSDW object: *Life sciences*
 - MSDW object: *Life sciences*
 - MSDCI object: *Life sciences*
- Click *Save*.

Passing criteria

- *Sidorova, Natalia* should have at least the *Mathematics Policy Advisor* rightset with MSDW and VSDW objects *Life sciences*.
- No further errors occurred.

ATR11

UCR59, 61

- Click *Administrative* in the menu bar.
- Click *Expertise groups*.
- Click *Add expertise group*.
- Enter the following information:
 - Subdepartment: *Life sciences*
 - Name: *Sihgt*
- Click *Save*.
- Click *Sihgt*.
- Enter the following information:
 - Name: *Sight*
- Click *Save*.

Passing criteria

- *Sight* should be in the list of expertise groups.
- No further errors occurred.

3.4 Add & edit employees & employments, initial users

ATR12

UCR9, 48, 49, 58

- Click *Employees* on the menu bar.
- Click *Add employee* on the top right, just below the menu bar.
- Enter the following information:
 - First name: *Stevie*
 - Last name: *Miracle*
 - Email: *n.sidorova@tue.nl*
 - User name: *swonder*
 - Expertise group: *Sight*
 - FTE: *1.0*
 - Starts: *2009-01-01*
 - Education ratio: *0.1*
 - Research ratio: *0.2*
 - Management ratio: *0.7*
- For Ends, click the calendar icon and choose the *1st of March, 2012*.
- Click the little green cross next to *Position*.
- Enter the following information:
 - Name: *hgl*
- Click *Save*.
- Click *Save*.
- Locate the employee *Miracle, Stevie* in the employee overview that shows up and click the little pencil on that row.
- Change *Last name* to *Wonder*.
- Click *Save*

Passing criteria

- All data shown in the employee overview on the row of *Stevie Wonder* should match the data entered, with the edited last name: *Wonder*.
- The hours available to *Stevie Wonder* for *other* tasks should be *0*.
- No further errors occurred.

ATR13
UCR48, 52, 53, 54, 55, 58

- Use the above test procedure, except changing the last name, to add another employee with the following information:
 - First name: *Geert*
 - Last name: *Wilders*
 - Email: *n.sidorova@tue.nl*
 - User name: *gwilders*
 - Expertise group: *Sight*
 - Position: *aio*
 - FTE: *2.0*
 - Education ratio: *0.0*
 - Research ratio: *0.8*
 - Management ratio: *0.2*
 but leave *Start* and *End* empty.
- Use the test procedure above to change the *Research ratio* to *0.7*, the *Management ratio* to *0* and *FTE* to *1.0*.

Passing criteria

- All data shown in the employee overview on the row of *Geert Wilders* should match the data entered and changed.
- The hours available to Geert Wilders for *other* tasks should be *401*.
- No further errors occurred.

ATR14
UCR1, 8

- Click *Administrative* in the menu bar.
- Click *Right sets*

Passing criteria

- All right sets should match the according table rows from table 2.1 in the urd[5].
- No further errors occurred.

ATR15
UCR11, 12

- Click *Administrative* on the menu bar.
- Click *Rights*.
- Click *Add right*.
- Select the following information:
 - Rightset: *Computer science policy advisor*
 - Employee: *Wilders, Geert*
 - VSDW object: *Life sciences*
- Click *Save*.
- Locate the row with *Wilders, Geert* and *Computer science policy advisor* and click *Wilders, Geert* in it.
- Click *Delete* and confirm.
- Add another right using the procedure above, except the deletion, with the following information:
 - Rightset: *Head of expertise group*
 - Employee: *Wonder, Stevie*
 - VEGW object: *Sight*

Passing criteria

- *Wilders, Geert* should have the *Employee* rightset.
- *Wonder, Stevie* should have the *Employee* and the *Head of expertise group* rightset with VEGW object *Sight*.
- No further errors occurred.

ATR16
UCR2, 4

- Using Firefox, log in with username *swonder* and password *doesnotmatter*.

Passing criteria

- An email should arrive soon with a password for the *swonder* account.
- No further errors occurred.

3.5 Add & edit education types, protection against url hacking

ATR17

UCR4, 5, 30, 32

- Using Internet Explorer, click *Administrative* in the menu bar.
- Click the *+ add* next to Education types.
- Enter the following information:
 - Subdepartment: *Life sciences*
 - Name: *College*
- Copy the url of the page to the clipboard.
- Click *Save*.
- Using Firefox, visit the url copied to the clipboard.
- Using Internet Explorer, locate *College* in the list that is showing up and click it.
- Change the *Name* to *Video college* and save.

Passing criteria

- In Firefox, a *403* or *Permission denied* error should have occurred.
- In Internet Explorer, the education type *Video college* should be in the education types list.
- No further errors occurred.

3.6 Add & edit study phases

ATR18

UCR172

- Click *Administrative* in the menu bar.
- Click the *+ add* next to Study phases.
- Enter the following information:
 - Name: *Bachelro*
- Click *Save*.
- In the list of study phases, click *Bachelro*.
- Change the name of the study phase to *Bachelor*.
- Click *Save*.

Passing criteria

- The study phase *Bachelor* should be in the list of study phases.
- No further errors occurred.

3.7 Add & edit study programs & target groups

ATR19

UCR96, 98

- Click *Programs* in the menu bar.
- Click *Add study program*.
- Enter the following information.
 - Name: *Innovations*
- Click *Save*.
- Click the little pencil on the row of *Innovations*.
- Enter the following information.
 - Name: *Innovation*
- Click *Save*.

Passing criteria

- *Innovation* should be in the list of study programs.
- No further errors occurred.

ATR20

UCR99

- Click the little green cross on the row of *Innovation*
- Click the little green cross next to *Name*
- Enter the following information:
 - Name: *Year 1*
- Click *Save*.
- Enter the following information:
 - Study program: *Innovation*
- Click *Save*.
- Click the little grey arrow on the row of *Innovation*

Passing criteria

- *Year 1* should be in the list of target groups.
- No further errors occurred.

3.8 Add & edit courses & course instances

ATR21

UCR14, 16, 43, 44, 47

- Click *Courses* in the menu bar.
- Click *Add course*.
- Enter the following information:
 - Code: *2DB45*
 - Name: *Statistics 2*
 - Given by: *Life sciences*
 - Description: *A course about regression models and stuff*
 - Credits: *3*
- Click *Save*.
- Locate the course *Statistics 2* in the course overview that shows up and click the little pencil on that row.
- Change Name to *Statistics for dummies*.
- Click *Save*.

Passing criteria

- The code and name in the course overview on the row of *Statistics for dummies* should match the data entered and edited.
- The Periods, Responsible and Assigned hours columns should be empty.
- No further errors occurred.

ATR22
UCR19, 21

- Locate the course *Statistics for dummies* in the course overview and click the green cross with name 'Add course instance' in that row.
- Add a course instance with the following information:
 - Responsible employee(s): *Wonder, Stevie*
 - Subperiods: *Q1, Q2*
 - Study phase: *Bachelor*
- Click *Save*.
- Locate the course instance of *Statistics for dummies* in subperiods *Q1, Q2* and click the little pencil in the periods column.
- Change subperiods and select only *Q1*.
- Click *Save*.

Passing criteria

- The course overview on the row of *Statistics for dummies* should match the data entered and changed.
- No further errors occurred.

ATR23
UCR14, 16

- Click *Add course* and enter the following information:
 - Code: *8C030*
 - Name: *Molecular simulations*
 - Given by: *Life sciences*
 - Credits: *6*
- Click *Save*.
- Edit the course *Molecular simulations* and change *Credits* to *5*.

Passing criteria

- The courses list should contain the course *Molecular simulations* and its data should match the data given.
- No further errors occurred.

3.9 Add course instance to a target group

ATR24

UCR18, 101

- Click *Programs* in the menu bar.
- Click the little grey arrow on the row of *Innovation*.
- Click the little pencil next to *Year 1*.
- Select the course instance *Statistics for Dummies(Q1)* in the available course instances list.
- Click the rightarrow next to the list.
- Click *Save*.
- Click *Expand study programs* and *Expand course instances*.

Passing criteria

- The course instance *Statistics for Dummies* should be added to the courses given to this target group.
- No further errors occurred.

3.10 Add & edit education instances

ATR25

UCR23, 25, 26, 29

- Click *Courses* in the menu bar.
- Locate the course *Statistics for dummies* in the course overview and click the little green cross in the *Periods* column with the name *Add task*.
- Enter the following information:
 - Education type: *Video college*
 - Subperiods: *Q1, Q2*
 - Number of employees to be assigned: *2*
 - Weekly hours: *14*
- Click *Save*.
- Locate the course *Statistics for dummies* in the course overview and click the little grey arrow in the *Periods* column with the name *View tasks*.
- Click the little pencil in the row that just showed up.
- Change *Number of employees to be assigned* to *3* and *Weekly hours* to *21*.
- Click *Save*.
- Click *Expand course instances*.

Passing criteria

- The course *Statistics for dummies* should have an education task, containing the data entered.
- No further errors occurred.

3.11 Add & edit tasks & leaves

ATR26

UCR79, 81

- Click *Tasks* in the menu bar.
- Click *Add task*.
- Enter the following information:
 - Name: *Write conference paper*
 - Subdepartment: *Life sciences*
 - Type: *Research project*
 - Description: *The hours for this task include research, writing and reviewing hours.*
 - Hours: *200*
- Click *Save*.
- Locate the task *Write conference paper* in the task overview and click the little pencil in that row.
- Change the following information:
 - Hours: *250*
- Click *Save*.

Passing criteria

- *Write conference paper* in the task overview should match the data entered and changed.
- No further errors occurred.

ATR27

UCR86, 88, 90

- Click *Add task*.
- Enter the following information:
 - Name: *Head of Sight*
 - Subdepartment: *Life sciences*
 - Type: *Management project*
 - Description: *Being the head of expertise group Sight*.
 - Hours: *300*
- Click *Save*.
- Locate the task *Head of Sight* in the task overview and click the little pencil in that row.
- Change the *Hours* to 400.
- Click *Save*.

Passing criteria

- The task with name *Head of Sight* in the task overview should match the data entered and changed.
- No further errors occurred.

ATR28

UCR91, 93, 95

- Click *Add task*.
- Enter the following information:
 - Name: *Presentation Training*
 - Subdepartment: *Life sciences*
 - Type: *Other task*
 - Description: *Part of the bi-yearly employee training.*
 - Hours: *20*
- Click *Save*.
- Locate the task *Presentation Training* in the task overview and click the little pencil in that row.
- Change *Hours* to *30*.
- Click *Save*.

Passing criteria

- The task with name *Presentation Training* in the task overview should match the data entered and changed.
- No further errors occurred.

ATR29
UCR104

- Click *Add task*.
- Enter the following information:
 - Name: *Pregnancy leave*
 - Subdepartment: *Life sciences*
 - Type: *Leave*
 - Hours: *500*
- Click *Save*.
- Locate the task *Pregnancy Leave* in the task overview and click the little pencil in that row.
- Change *Hours* to *400*
- Click *Save*.

Passing criteria

- The task with name *Pregnancy Leave* in the task overview should match the data entered and changed.
- No further errors occurred.

ATR30
UCR28

- Click *Add task*.
- Enter the following information:
 - Name: *Workshop "Line of Sight"*
 - Subdepartment: *Life sciences*
 - Type: *Education Project*
 - Description: *Part of the bi-yearly employee training.*
 - Hours: *20*
- Click *Save*.
- Locate the task *Workshop "Line of Sight"* in the task overview and click the little pencil in that row.
- Change *Hours* to *30*.
- Click *Save*.

Passing criteria

- The task with name *Workshop "Line of Sight"* in the task overview match the data entered and changed.
- No further errors occurred.

3.12 Add & edit assignments for tasks & leaves

ATR31

UCR28

- Locate the task *Workshop "Line of Sight"* in the task overview and click the little green cross in the *Assignments* column with the name *Add assignment*.
- Enter the following information:
 - Employment: *Wonder, Stevie*
 - Hours: *7*
 - Share: *0.1*
- Click *Save*.
- Locate the task *Workshop "Line of Sight"* in the task overview and click the grey arrow in the *Assignments* column.
- Click the little pencil in the row that just showed up.
- Change *Hours* to *2*.
- Click *Save*.
- Locate the task *Workshop "Line of Sight"* in the task overview and click the grey arrow in the *Assignments* column.

Passing criteria

- The task *Workshop "Line of Sight"* has an assignment as entered.
- No further errors occurred.

ATR32

UCR82, 83, 84

- Locate the task *Write conference paper* in the task overview and click the little green cross in the *Assignments* column with the name 'Add assignment'.
- Enter the following information:
 - Employment: *Wonder, Stevie*
 - Hours: *125*
 - Share: *0.7*
- Click *Save*.
- Locate the task *Write conference paper* in the task overview and click the little grey arrow in the *Assignments* column next to it.
- Click the little pencil in the row that just showed up.
- Change *Share* to *0.5*.
- Click *Save*.
- Locate the task *Write Conference paper* in the task overview and click the grey arrow in the *Assignments* column.

Passing criteria

- The task *Write conference paper* has an assignment as entered.
- No further errors occurred.

ATR33
UCR89

- Locate the task *Head of Sight* in the task overview and click the little green cross in the *Assignments* column with the name *Add assignment*.
- Enter the following information:
 - Employment: *Wonder, Stevie*
 - Hours: *40*
 - Share: *0.6*
- Click *Save*.
- Locate the task *Head of Sight* in the task overview and click the little grey arrow in the *Assignments* column next to that task.
- Click the little pencil in the *Assignments* column which just showed up.
- Change *Share* to *0.1*.
- Click *Save*.
- Locate the task *Head of Sight* in the task overview and click the grey arrow in the *Assignments* column.

Passing criteria

- The task *Head of Sight* has an assignment as entered.
- No further errors occurred.

ATR34
UCR94

- Locate the task *Presentation Training* in the task overview and click the little green cross in the *Assignments* column with the name *Add assignment*.
- Enter the following information:
 - Employment: *Wilders, Geert*
 - Hours: *30*
 - Share: *0.6*
- Click *Save*.
- Locate the task *Presentation Training* in the task overview and click the little grey arrow in the *Assignments* column next to it.
- Click the little pencil in the *Assignment* column which just showed up.
- Change *Share* to *1.0*.
- Click *Save*.
- Locate the task *Presentation training* in the task overview and click the grey arrow in the *Assignments* column.

Passing criteria

- The task *Presentation training* has an assignment as entered.
- No further errors occurred.

ATR35
UCR102, 104

- Locate the task *Pregnancy leave* in the task overview and click the little green cross in the *Assignments* column with the name *Add assignment*.
- Enter the following information:
 - Employment: *Wonder, Stevie*
 - Hours: *200*
- Click *Save*.
- Locate the task *Pregnancy leave* in the task overview and click the little grey arrow in the *Assignments* column next to that task.
- Click the little pencil in the *Assignments* column which just showed up.
- Change the *Hours* to *400*.
- Click *Save*.
- Locate the task *Pregnancy leave* in the task overview and click the grey arrow in the *Assignments* column.

Passing criteria

- The task *Pregnancy leave* has an assignment as entered.
- No further errors occurred.

3.13 Notifications & provisional versions

ATR36
UCR123, 124, 125, 126

- Using Firefox, visit the URL where QIS is located.
- Click *Edit details*.
- Uncheck *Receive notifications on my own workload*.
- Check *Receive notifications on workload of my expertise group*.
- Click *Save*.

Passing criteria

- No further errors occurred.

ATR37
UCR43, 44, 47

- Using Firefox, click » in the menu bar.
- Click *Courses* in both Internet Explorer and Firefox.

Passing criteria

- In Firefox, there is no course instance scheduled for the course *Statistics for dummies*.
- In Internet Explorer, there is a course instance scheduled for the course *Statistics for dummies*.
- No further errors occurred.

ATR38
UCR45, 46, 120, 121, 122

- Using Internet Explorer, click *Courses definitive* and confirm.
- Using Firefox, click *Courses*.

Passing criteria

- Both Internet Explorer and Firefox show the same data for the course *Statistics for dummies*.
- An email should have arrived at *n.sidorova@tue.nl*. Addressed to *Stevie Wonder*, containing the note that something has changed and the date of the test.
- No further errors occurred.

ATR39

UCR17, 27, 158, 159

- Locate the course *Statistics for dummies* in the course overview and click the little grey arrow in the *Periods* column.
- Click the little green cross with the name *Assign employee* on the row of *Video college*.
- Enter the following information:
 - Employment: *Wilders, Geert*
 - Hours: 7
 - Share: 0.33
- Click *Save*.
- Click *Expand course instances* and click *Expand tasks*.
- Locate the course *Statistics for dummies* in the course overview.
- Locate the assignment of *Wilders, Geert* and click the little pencil in that row.
- Change the hours to 11 and the share to 0.5.
- Click *Save*.
- Click *Expand course instances* and click *Expand tasks*.

Passing criteria

- The Assigned hours for the course is equal to 11.
- The assignment of *Geert Wilders* is located below the education task he was assigned to with all the entered information, including the edited hours and share.
- No further errors occurred.

ATR40

UCR38, 39, 42

- Using Internet Explorer, click *Employees* and click the magnifying glass on the row of *Stevie Wonder*.
- Using Firefox, click the QIS logo.

Passing criteria

- In Firefox, no leave or task is assigned.
- In Internet Explorer, an education project, a research task, a management task and a leave are assigned.
- No further errors occurred.

ATR41
UCR40, 41, 120, 121, 122

- Click *Tasks*
- Click *Assignments definitive* and confirm.
- Using Firefox, press F5.

Passing criteria

- Both Internet Explorer and Firefox show an education project, a research task, a management task and a leave.
- Two emails have arrived at *n.sidorova@tue.nl*, addressed to *Stevie Wonder* and *Geert Wilders*, containing the note that something has changed and the date of the test.
- No further errors occurred.

3.14 Automatic research hours

ATR42
UCR85

- Click *Employees*.
- Click the little grey arrow next to *Wonder, Stevie*
- Click *Fill research hours*

Passing criteria

- *Stevie Wonder* should have an assignment to *Write conference paper* for 895 hours.
- No further errors occurred.

3.15 Reports

ATR43
UCR51

- Click the QIS logo.

Passing criteria

- A report as specified in **SCR37** should be shown. It should not contain any assignments.
- No further errors occurred.

ATR44
UCR56, 70, 73, 74, 167

- Click *Reports* in the menu bar.
- In the Report Overview, click *view* next to the report *Workload for all employees of a subdepartment* of subdepartment *Life sciences*.
- Use the browsers printing functionality to print the page.

Passing criteria

- A report as specified in **SCR88** should be shown for subdepartment *Life sciences*.
- *Stevie Wonder* should have 1337 hours in his employment, of which 400 should be for a *Pregnancy leave*.
- *Stevie Wonder* should have the following assignments:

Education 2 *Workshop "Line of Sight"*

Research 895 *Write conference paper*

Management 40 *Head of Sight*

- *Geert Wilders* should have 1337 hours in his employment.
- *Geert Wilders* should have the following assignments:

Education 30 *Presentation training*

Education 11 *Video college*

- The browser should have offered the report to be printed.
- No further errors occurred.

ATR45
UCR57, 63, 64, 65

- Click *Reports* in the menu bar.
- In the Report Overview, click *view*, next to the report *Workload for all employees of an expertise group* of expertise group *Sight*.

Passing criteria

- A report as specified in **SCR101** is shown for expertise group *Sight*.
- No further errors occurred.

ATR46
UCR62, 169

- Click *Reports* in the menu bar.
- In the Report Overview, select *Geert Wilders* in the combo box next to the report *Workload for a single employee of an expertise group* of expertise group *Sight*.
- In the Report Overview, click *view*, next to the report *Workload for a single employee of an expertise group* of expertise group *Sight*.

Passing criteria

- A report as specified in **SCR37** is shown for employee *Geert Wilders*.
- No further errors occurred.

ATR47
UCR66

- Click *Reports* in the menu bar.
- In the Report Overview, click *view*, next to the report *Tasks related to course instances of an expertise group* of expertise group *Sight*.

Passing criteria

- A report as specified in **SCR102** is shown for expertise group *Sight*.
- The course *Statistics for dummies* should have one assignment, to *Geert Wilders*.
- No further errors occurred.

ATR48
UCR71, 73, 170

- Click *Reports* in the menu bar.
- In the Report Overview, click *view*, next to the report *Tasks related to course instances of an subdepartment* for subdepartment *Life Sciences*.

Passing criteria

- A report as specified in **SCR102** is shown for subdepartment *Life sciences*.
- No further errors occurred.

ATR49**UCR72, 73, 74**

- Click *Reports* in the menu bar.
- In the Report Overview, click *view*, next to the report *Capacity for a subdepartment* of subdepartment *Life sciences*.

Passing criteria

- A report as specified in **SCR95** is shown for subdepartment *Life sciences*.
- No further errors occurred.

ATR50**UCR75, 169**

- Click *Reports* in the menu bar.
- In the Report Overview, select *Geert Wilders* in the combo box next to the report *Workload for a single employee* of subdepartment *Life sciences*.
- In the Report Overview, click *view*, next to the report *Single Employee* of subdepartment *Life sciences*.

Passing criteria

- A report as specified in **SCR37** is shown for employee *Geert Wilders*.
- All calculated values in specified report are shown with their calculations.
- No further errors occurred.

ATR51

UCR168, 169, 171, 172

- Click *Reports* in the menu bar.
- In the Report Overview, click *view*, next to the report *Budget for a subdepartment of subdepartment Life sciences*.
- Click *Export as CSV*.

Passing criteria

- The report has been shown to the user in CSV format or the browser should have offered it for download.
- A report as specified in **SCR92** is shown for subdepartment *Life sciences*.
- The planned hours in education tasks for *aio, Bachelor* equals 11.
- The planned hours in other for *aio* equals 30.
- The planned hours in education projects for *hgl* equals 2.
- The planned hours in research for *hgl* equals 895.
- The planned hours in management for *hgl* equals 40.
- No further errors occurred.

ATR52

UCR169, 173

- Click *Reports* in the menu bar.
- In the Report Overview, click *view*, next to the report *Research hours for a subdepartment of subdepartment Life sciences*.

Passing criteria

- A report as specified in **SCR93** is shown for subdepartment *Life sciences*.
- *Stevie Wonder* should have the following assignment:

Research 895 Write conference paper.

- No further errors occurred.

ATR53
UCR169, 174

- Click *Reports* in the menu bar.
- In the Report Overview, click *view*, next to the report *Management hours for a subdepartment* of subdepartment *Life sciences*.

Passing criteria

- A report as specified in **SCR94** is shown for subdepartment *Life sciences*.
- *Stevie Wonder* has the following assignment:

Management 40 Head of Sight.

- No further errors occurred.

ATR54
UCR169, 175

- Click *Reports* in the menu bar.
- In the Report Overview, select *Video college* in the combo box next to the report *Course instances and assigned employees for an education type* of subdepartment *Life sciences*.
- In the Report Overview, click *view*, next to the report *Course instances and assigned employees for an education type* of subdepartment *Life sciences*.

Passing criteria

- A report as specified in **SCR58** is shown for subdepartment *Life sciences*.
- The only assigned employee for *Statistics for Dummies* is *Geert Wilders*.
- No further errors occurred.

3.16 Copy information between system years

ATR55

UCR164, 165, 166

- Click *Administrative* in the menu bar.
- Click *System years*.
- Click *Add system year*.
- Enter the following information:
 - Copy information from: *2010-2011*
 - Name: *2011-2012*
 - Begins: *2011-09-01*
 - Ends: *2012-08-31*
 - Hours per fte: *1660*
- Click *Save* and check the first two passing criteria.
- Click » in the top right corner.
- Click *Courses* and check the third passing criterium.
- Click *Employees*.
- Click *Expand Employments* and check the fourth passing criterium.

Passing criteria

- The year should be added successfully.
- The system year 2011-2012 should appear in the system years list.
- The course list should contain course instances copied from system year *2010-2011*.
- The employees list should contain assignments copied from system year *2010-2011*.
- No further errors occurred.

3.17 Remove education instances

ATR56

UCR24

- Click *Courses* in the menu bar.
- Locate the course *Statistics for dummies* in the course overview and click the little grey arrow in the *Periods* column with the name *View tasks*.
- Click the little red cross in the row that just showed up.

Passing criteria

- The system should ask for confirmation to remove the assignment from *Geert Wilders* to *Statistics for dummies* along with the education task.
- No further errors occurred.

ATR57

UCR24

- Click *Yes, I'm sure*.

Passing criteria

- There should not be a little grey arrow in the column *Periods* on the row of *Statistics for dummies*.
- No further errors occurred.

ATR58

UCR24

- Click *Employees* in the menu bar
- Locate *Geert Wilders* in the list and click the little grey arrow on the same row.

Passing criteria

- There should not be an assignment from *Geert Wilders* to *Statistics for dummies*.
- No further errors occurred.

3.18 Remove employee

ATR59**UCR10, 28, 50**

- From the employee overview, click the little pencil next to *Geert Wilders*.
- Click *Delete* and confirm.

Passing criteria

- *Geert Wilders* should not be present in the employee overview.
- No further errors occurred.

3.19 Close year

ATR60**UCR7**

- Click *Administrative* in the menu bar.
- Click *Subdepartments*.
- Locate the subdepartment *Life sciences* and click it.
- Click *Close year* and confirm.

Passing criteria

- The subdepartment *Life sciences* should be closed.
- No further errors occurred.

ATR61**UCR6**

- Click *Courses* in the menu bar.
- Locate the course *Statistics for dummies* in the course overview.

Passing criteria

- There should not be a green cross with the name *Add task* next to the course instance *Statistics for dummies*.
- No further errors occurred.

3.20 Remove assignments from tasks & leaves

ATR62**UCR82**

- Locate the task *Write conference paper* in the task overview and click the little grey arrow in the *Assignments* column.
- Click the little red cross in the row that just appeared.
- Click *Yes, I'm sure*.

Passing criteria

- Task *Write conference paper* has no assignment in the *Assignments* column.
- No further errors occurred.

ATR63**UCR89**

- Locate the task *Head of Sight* in the task overview and click the little grey arrow in the *Assignments* column.
- Click the little red cross in the row that just appeared.
- Click *Yes, I'm sure*.

Passing criteria

- Task *Head of Sight* has no assignment in the *Assignments* column.
- No further errors occurred.

ATR64**UCR92**

- Locate the task *Presentation Training* in the task overview and click the little grey arrow in the *Assignments* column.
- Click the little red cross in the row that just appeared.
- Click *Yes, I'm sure*.

Passing criteria

- The assignment for task *Presentation Training* should not be present in the task overview.
- Task *Presentation Training* has no assignment in the *Assignments* column.
- No further errors occurred.

ATR65**UCR103**

- Locate the task *Pregnancy leave* in the task overview and click the little grey arrow in the *Assignments* column.
- Click the little red cross in the row that just appeared.
- Click *Yes, I'm sure*.

Passing criteria

- Task *Pregnancy leave* has no assignment in the *Assignments* column.
- No further errors occurred.

3.21 Remove tasks & leaves

ATR66**UCR80**

- Locate the task *Write conference paper* in the task overview and click the little red cross in that row.
- Click *Yes, I'm sure*.

Passing criteria

- The task *Write conference paper* should not be present in the task overview.
- No further errors occurred.

ATR67**UCR87**

- Locate the task *Head of Sight* in the task overview and click the little red cross in that row.
- Click *Yes, I'm sure*.

Passing criteria

- The task *Head of Sight* should not be present in the task overview.
- No further errors occurred.

ATR68
UCR92

- Locate the task *Presentation Training* in the task overview and click the little red cross in that row.
- Click *Yes, I'm sure*.

Passing criteria

- The task *Presentation Training* should not be present in the task overview.
- No further errors occurred.

ATR69
UCR103

- Locate the task *Pregnancy leave* in the task overview and click the little red cross in that row.
- Click *Yes, I'm sure*.

Passing criteria

- The task *Pregnancy leave* should not be present in the task overview.
- No further errors occurred.

ATR70
UCR28

- Locate the task *Workshop "Line of Sight"* in the task overview and click the little red cross in that row.
- Click *Yes, I'm sure*.

Passing criteria

- The task *Workshop "Line of Sight"* should not be present in the task overview.
- No further errors occurred.

3.22 Remove courses & course-instances

ATR71**UCR22**

- Click *Courses* in the menu bar.
- Locate the course *Statistics for dummies* in the course overview and click the little red cross in the *Periods* column with the name *Remove course instance*.
- Click *Yes, I'm sure*.

Passing criteria

- The course *Statistics for dummies* should not have a course instance.
- No further errors occurred.

ATR72**UCR15**

- Locate the course *Statistics for dummies* in the course overview and click the little red cross in that row.
- Click *Yes, I'm sure*.

Passing criteria

- The course *Statistics for dummies* should not show up in the course overview.
- No further errors occurred.

3.23 Remove study programs & target groups

ATR73**UCR100**

- Click *Programs* in the menu bar.
- Locate *Innovation* and click the little grey arrow in its row.
- Click the little red cross in the row that just showed up, *Year 1*.
- Click *Yes, I'm sure*.

Passing criteria

- *Innovation* should have 0 target groups.
- No further errors occurred.

ATR74
UCR97

- Locate *Innovation* and click the little red cross on its row.
- Click *Yes, I'm sure*.

Passing criteria

- The study program *Innovation* should not be present in the programs list.
- No further errors occurred.

3.24 Remove education types

ATR75
UCR31

- Click *Administrative* in the menu bar.
- Click *Education types*.
- Locate *Video college* in the list that is showing up and click it.
- Click *Delete* and confirm.

Passing criteria

- The education type *Video college* should not be present in the education types list.
- No further errors occurred.

3.25 Remove study phases

ATR76

UCR172

- Click *Administrative* in the menu bar.
- Click *Study phases*.
- Locate *Bachelor* in the list that is showing up and click it.
- Click *Delete* and confirm.

Passing criteria

- The study phase *Bachelor* should not be present in the study phases list.
- No further errors occurred.

3.26 Remove subperiods

ATR77

UCR35

- Click *Administrative* in the menu bar.
- Click *Subperiods*.
- Locate *Q1* in the list that is showing up and click it.
- Click *Delete* and confirm.

Passing criteria

- The subperiod *Q1* should not be present in the subperiods list.
- No further errors occurred.

3.27 Remove periods

ATR78**UCR33**

- Click *Administrative* in the menu bar.
- Click *Periods*.
- Locate *S1* in the list that is showing up and click it.
- Click *Delete* and confirm.

Passing criteria

- The period *S1* should not be present in the periods list.
- No further errors occurred.

3.28 Remove expertise groups

ATR79**UCR60**

- Click *Administrative* in the menu bar.
- Click *Expertise groups*.
- Locate *Sight* in the list that is showing up and click it.
- Click *Delete* and confirm.

Passing criteria

- The expertise group *Sight* should not be present in the expertise groups list.
- No further errors occurred.

3.29 Remove subdepartments

ATR80**UCR68**

- Click *Administrative* in the menu bar.
- Click *Subdepartments*.
- Locate *Life sciences* in the list that is showing up and click it.
- Click *Delete*.

Passing criteria

- The system should ask for confirmation to remove the course *Molecular Simulations* along with the subdepartment *Life Sciences*.
- No further errors occurred.

ATR81**UCR68**

- Click *Yes, I'm sure*.

Passing criteria

- The subdepartment *Life sciences* should not be present in the subdepartments list.
- No further errors occurred.

3.30 Remove departments

ATR82**UCR77**

- Click *Administrative* in the menu bar.
- Click *Departments*.
- Locate *Innovation & Life sciences* in the list that is showing up and click it.
- Click *Delete* and confirm.

Passing criteria

- The department *Innovation & Life sciences* should not be present in the departments list.
- No further errors occurred.

Chapter 4

Test procedures

- Install and prepare a webserver, as described in section 3.1.
- Perform all tests in the order in which they appear in chapter 3.
Do not shuffle them, as the order is chosen to visualize some data when viewing the reports.

Most tests are performed using Internet Explorer. In order to easily show QIS with other login credentials, Firefox is used every now and then.

Use Internet Explorer, except when the test says to use Firefox. Do not close Firefox afterwards, however.

Chapter 5

Test reports

5.1 First AT

Location: Eindhoven University of Technology, HG 7.84 Date and time: 8th of January, 2010, 13:00 Held by: Natalia Sidorova, Kevin van der Pol, Sander Leemans

Only the tests which were not passed or have certain remarks are listed below:

<i>Test case</i>	<i>Result</i>	<i>Remarks</i>
ATR 4	Failed	Courses can not yet be clicked - there are no departments to which the user has enough rights.
ATR 6	Passed	For the same reason ATR 4 failed, this test could not be completed. It was included after ATR 11, where it passed.
ATR 7	Passed	For the same reason ATR 4 failed, this test could not be completed. It was included after ATR 11, where it passed.
ATR 24	Failed	The correct course instance could not be selected.
ATR 25	Failed	Weekly hours are displayed incorrectly.
ATR 38	Failed	No mail was sent.
ATR 49	Failed	Internal server error.
ATR 50	Failed	Internal server error.
ATR 51	Failed	Internal server error.
ATR 52	Failed	Internal server error.
ATR 53	Failed	Internal server error.
ATR 54	Failed	Internal server error.

5.2 Second AT

Location: Eindhoven University of Technology, HG 7.84 Date and time: 11th of January, 2010, 11:00 Held by: Natalia Sidorova, Roy Berkeveld, Sander Leemans

Only those tests which were not passed during the first AT were tested. All tests were passed.

Appendix A

Tests traceability matrix

A.1 URD to ATP

User	Test	User	Test	User	Test
1	1, 14	60	79	119	<i>Not matched</i>
2	16	61	11	120	38, 41
3	1	62	46	121	38, 41
4	1, 16, 17	63	45	122	38, 41
5	17	64	45	123	36
6	61	65	45	124	36
7	60	66	47	125	36
8	14	67	9	126	36
9	12	68	80, 81	127	<i>Not matched</i>
10	59	69	9	128	<i>Not matched</i>
11	10, 15	70	44	129	<i>Not matched</i>
12	10, 15	71	48	130	<i>Not matched</i>
13	5	72	49	131	<i>Not matched</i>
14	21, 23	73	44, 48, 49	132	<i>Not matched</i>
15	72	74	44, 49	133	<i>Not matched</i>
16	21, 23	75	50	134	<i>Not matched</i>
17	39	76	8	135	<i>Not matched</i>
18	24	77	82	136	<i>Not matched</i>
19	22	78	8	137	<i>Not matched</i>
20	<i>Not matched</i>	79	26	138	<i>Not matched</i>
21	22	80	66	139	<i>Not matched</i>
22	71	81	26	140	<i>Not matched</i>
23	25	82	32, 62	141	<i>Not matched</i>
24	56, 57, 58	83	32	142	<i>Not matched</i>
25	25	84	32	143	<i>Not matched</i>
26	25	85	42	144	<i>Not matched</i>
27	39	86	27	145	<i>Not matched</i>
28	30, 31, 59, 70	87	67	146	<i>Not matched</i>
29	25	88	27	147	<i>Not matched</i>
30	17	89	33, 63	148	<i>Not matched</i>
31	75	90	27	149	<i>Not matched</i>
32	17	91	28	150	<i>Not matched</i>
33	6, 78	92	64, 68	151	<i>Not matched</i>
34	6	93	28	152	<i>Not matched</i>
35	7, 77	94	34	153	<i>Not matched</i>

36	7	95	28	154	Not matched
37	7	96	19	155	Not matched
38	40	97	74	156	Not matched
39	40	98	19	157	Not matched
40	41	99	20	158	39
41	41	100	73	159	39
42	40	101	24	160	1
43	21, 37	102	35	161	All
44	21, 37	103	65, 69	162	1
45	38	104	29, 35	163	1
46	38	105	2, 3	164	55
47	21, 37	106	2, 3	165	4, 55
48	12, 13	107	Not matched	166	55
49	12	108	Not matched	167	44
50	59	109	Not matched	168	51
51	43	110	Not matched	169	46, 50, 51, 52, 53, 54
52	13	111	Not matched	170	48
53	13	112	Not matched	171	51
54	13	113	Not matched	172	18, 51, 76
55	13	114	Not matched	173	52
56	44	115	Not matched	174	53
57	45	116	Not matched	175	54
58	12, 13	117	2, 3		
59	11	118	2		

A.2 ATP to URD

Test	User	Test	User	Test	User
1	1, 3, 4, 160, 162, 163	29	104	57	24
2	105, 106, 117, 118	30	28	58	24
3	105, 106, 117	31	28	59	10, 28, 50
4	165	32	82, 83, 84	60	7
5	13	33	89	61	6
6	33, 34	34	94	62	82
7	35, 36, 37	35	102, 104	63	89
8	76, 78	36	123, 124, 125, 126	64	92
9	67, 69	37	43, 44, 47	65	103
10	11, 12	38	45, 46, 120, 121, 122	66	80
11	59, 61	39	17, 27, 158, 159	67	87
12	9, 48, 49, 58	40	38, 39, 42	68	92
13	48, 52, 53, 54, 55, 58	41	40, 41, 120, 121, 122	69	103
14	1, 8	42	85	70	28
15	11, 12	43	51	71	22
16	2, 4	44	56, 70, 73, 74, 167	72	15
17	4, 5, 30, 32	45	57, 63, 64, 65	73	100
18	172	46	62, 169	74	97
19	96, 98	47	66	75	31
20	99	48	71, 73, 170	76	172
21	14, 16, 43, 44, 47	49	72, 73, 74	77	35
22	19, 21	50	75, 169	78	33
23	14, 16	51	168, 169, 171, 172	79	60
24	18, 101	52	169, 173	80	68
25	23, 25, 26, 29	53	169, 174	81	68
26	79, 81	54	169, 175	82	77
27	86, 88, 90	55	164, 165, 166		

28	91, 93, 95	56	24		
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