DAT255 – Software engineering project
Grupp01

Test report for Ripped

By: GivDev

Innehåll

1 Introduction

This application is for persons that exercises and want to have an overview what they have done recently. The application can register:

- Cardio exercises (in example sports)
- Static exercises(in example sitting in 90 degress,
- Dynamic exercise(in example push-ups, bench-press etc)

1.1 Purpose of the application

This application is important since the most of the people nowdays exercise somehow and this application makes it easy to remember for the user on what they did and what they should do.

1.2 General characteristics of application

The application contains six different sections, they are:

1. The Workout – Here a user can have a routine that they should do, maybe a workout at the gym or a training pass. It is able to create routines in this section and edit the existing ones.
2. Exercises – List all the available exercises that the user can add into the workout. If something doesn't exist, the user is able to add it! An exercise can also be edited with a new name or adding a note to it.
3. History – In this section the user can see the past workouts that have been made. See what you did and which date it was made.
4. Statistics – Not implemented yet
5. Profile – Enter name, age, weight and height. Not implemented yet.
6. Settings – There is an about button where it is explained why the application was built and when, also in this section there are three options of settings. They are:

    - Language - Able to change language to Swedish or English
    - Distance - The user is also able to change distance unit to either kilometers or miles.
    - Weight – Is able to change unit in weight to either pounds or kilograms.

2 Test environment

The test code exists in the Android-project but has to be created as a new project since the current one is not a JUnit-testing project. When the GUI was tested a test-program called "Robotium" was used. How to install it is easy! Follow those instructions below to start the the test-project:

1. Start with File->New -> Other and thereafter take Android Test Project
2. Enter a name of the project
3. Select the application as the “Test target”.
4. Then insert the robotium-solo.jar and the javadoc.jar into the new project.
5. Then right-click into the project and select properties. Thereafter press Java Build Path and choose libraries and press the button “Add JARs..” which is placed on the left side. Then take the robotium-solo.jar in the selection and now the file will be shown in the library.
6. Click on the robotium-solo file in the library, press Javadoc location and click in the radio-button called “Javadoc in archive” and choose browse and thereafter pick the javadoc.jar.
7. Click the tab “Order and Export” and click in the robotium checkbox.
8. Now pick the “test code”:s source files that are located in the project and copy them into the JUnit test project.
9. Now the test can be started!

Before testing the application it is highly recommended that the database is cleaned since some of the test cases won’t go through.

2.1 Hardware environment

Since the GUI is based on Android 2.2 any device can be used since “timeouts” are implemented so the phone or the emulator can’t fail because it is to slow.

2.2 Software environment

In the testing Robotium(version 3.4.1) and JUnit testing was used. For the GUI Robotium was used and for the database JUnit was used.

2.2.3 Softwares

Since we want to test the GUI robotium is a perfect alternative

2.2.4 Software settings

No extra settings are needed since the configuration is done when Robotium is “installed”.

System information

3.1 System version

The current version is 1.0.

4 Known bugs and limitations

Before testing a few bugs where found, some of them weren't bugs, just misunderstandings. The issues were:

1. Distorded menu on ldpi devicess
2. Name for "add exercise" is not cleared
3. Not uniform design
4. ListWorkoutActivity.java does not update after creating a workout
5. Wrong string on cancel button
6. "Add new workout" does not work correctly
7. "Add exercise" in Exercise activity crashed
8. When submitting a exercise
9. Main menu is distorted on ldpi devices
10. All Swedish strings aren't implemented
11. Time in database is set to UTC, not the local timezone
12. Problems aborting add exercise
13. Not uniform design for profile

5 Test specification

Test cases for version 1.0

Main Activity

1.1 Launching the app

Description: When you launch the app it will starts and Main Activity will appear

Precondition: An installed app

Test steps:

1. Launch the app
2. Verify that the menu is visible

Related user stories: All

1.2 List Workouts in Workout-Activity

Description: List your Workouts in Workout-Activity

Precondition: The app is started(test case 1.1)

Test steps:

1. Select the Workout button
2. Verify that the Workout-activity viewing the content in WorkoutActivity

Related user stories: 1.1, 1.2

1.3 List all Exercises in Exercise-activity

Description: List all the Exercises in the Exercise-activity,

Precondition: The app is started(test case 1.1)

Test steps:

1. Select the Exercise-Button.
2. Verify that the Exercise-activity viewing the content in Exercise

Related user stories: 2

1.4 List the History in History-activity

Description: List your history in the History-activity

Precondition: The app is started(test case 1.1)

Test steps:

1. Select the History-Button.
2. Verify that the History-activity viewing the content in history

Related user stories:

1.5 See your Statistic in Statistic-Activity

Description: See your Statistic in Statistic-Activity

Precondition: The app is started(test case 1.1)

Test steps:

1. Select the Statistics-Button.
2. Verify that the Statistics-activity viewing the content in statistics

Related user stories:

1.6 Show your Profile in Profile-Activity

Description: Show your Profile

Precondition: The app is started(test case 1.1)

Test steps:

1. Select the Profile-Button.
2. Verify that the Profile-activity shows the profile

Related user stories:

1.7 List the Settings-menu

Description: List the Settings-menu

Precondition: The app is started (test case 1.1)

Test steps:

1. Select the Settings-Button.
2. Verify that the Settings-activity starts

Related user stories:

Workout

2.1.1 Add a workout

Description: Add a workout

Precondition: Accessibility to the Workout-Activity(test case 1.2)

Test steps:

1. Select the Add Workout button
2. Verify that a dialog pops up
3. Try to enter text into the text field
4. Click the Add workout button
5. Verify that the Edit Workout-Activity starts with the text from the text field as the title
6. Verify that the workout exist in the database

Related user stories: 1.1.1

2.1.2 Cancel add-workout dialog

Description: Cancel add-workout dialog

Precondition: Accesibility to add-workout dialog(test case 2.1)

Test steps:

1. Select the cancel-button
2. Verify that dialog is cancelled

Related user stories: 1.1.1

2.1.3 Search for Exercises by muscle group in Edit Workout

Description: Search for Exercises by muscle group in Edit Workout

Precondition: Accessibility to Edit Workout works(test case 2.4)

Test steps:

1. Select the spinner that contains the muscle groups
2. Verify that the spinner opens
3. Verify that the spinner is scroll-able
4. Select an item in the spinner
5. Verify that the spinner is closed after an item is selected
6. Verify that the searched exercises appear

Related user stories: 1.1.2

2.1.4 Open edit a workout

Description: Open edit a workout

Precondition: Accessibility to Workout-Activity(Test case 2.1)

Test steps:

1. Select a workout in Workout-activity
2. Verify that the Edit Workout-Activity is listing Exercises
3. Verify that the list is scroll-able

OR

1. Longclick a workout in Workout-activity
2. Press “Edit” on the pop-up screen
3. Verify that the Edit Workout-Activity is Listing Exercises

Related user stories: 1.1.4

2.1.5 Add exercise to Workout

Description: Add Exercise to Workout

Precondition: Accessibility to Edit Workout-Activity(Test case 2.4)

Test steps:

1. Select an unchecked Exercise
2. Verify that the Exercise got a checkbox
3. Save the workout
4. Open the workout and see if the exercise is checked

Related user stories: 1.1.4

2.1.6 Remove exercise from Workout

Description: Remove exercise from Workout

Precondition:Accessibility to Edit Workout(test case 2.4)

Test steps:

1. Select an already checked Exercise
2. Verify that the Exercise don’t have a checkbox
3. Save the workout
4. Open the workout and see if the exercise is not checked.

Related user stories: 1.1.4

2.1.7 Clone the workout

Description: Make a duplicate of the workout

Precondition: The user has selected Workout from the main menu.

Test steps:

1. Long click a workout in the list.
2. Select “Clone” from the pop up menu.

3. Verify that there is two workouts with same name and exercises.

Related user stories: 1.1.5

2.1.8 Delete a workout

Description: Deletes a workout

Precondition: The user has selected Workout from the main menu.

Test steps:

1. Long click a workout in the list.
2. Select “Delete” from the pop up menu.
3. Press ok in the dialog
4. Verify that the workout doesn’t exists.

Related user stories: 1.1.3

2.2.1 Register cardio exercises

Description: Register result for performed cardio exercise

Precondition: The user has selected to start a workout

Test steps:

1. Click on a cardio exercise
2. Verify that the activity for register cardio is active

Related user stories: 1.2.2

2.2.2 Register cardio exercises: Not valid time

Description: Register result for performed cardio exercise

Precondition: The user has selected to start a workout

Test steps:

1. Set both minutes and seconds to zero (or blank), distance whatever you want (can only be decimal numbers and blank).
2. Press “Add set”.
3. Note that the set is not added to “Current sets” label and an error will appear.

Related user stories: 1.2.2

2.2.3 Register cardio exercises: Valid time

Description: Register result for performed cardio exercise

Precondition: The user has selected to start a workout

Test steps:

1. Set either minutes or seconds to zero and the other one to a number greater than 0, distance whatever you want (can only be decimal numbers).
2. Press “Add set”.
3. Note that the set is added to “Current sets”.
4. Verify that it is written to database when clicking “Done”.

Related user stories: 1.2.2

2.2.4 Register static exercises:

Description: Register result for performed static exercise
Precondition: The user has selected to start a workout
Test steps:

1. Click on a cardio exercise
2. Verify that the activity for register static is active

Related user stories: 1.2.3

2.2.5 Register static exercises: Not valid time

Description: Register result for performed static exercise
Precondition: The user has selected to start a workout
Test steps:

1. Set both minutes and seconds to zero and the other one to a number greater than 0, weight whatever you want (can only be decimal numbers).
2. Press “Add set”.
3. Verify that the set is not added to “Current sets” and an error is displayed.

Related user stories: 1.2.3

2.2.6 Register static exercises: Valid time

Description: Register result for performed cardio exercise
Precondition: The user has selected to start a workout
Test steps:

1. Set either minutes or seconds to zero and the other one to a number greater than 0, weight whatever you want (can only be decimal numbers).
2. Press “Add set”.
3. Note that the set is added to “Current sets”.
4. Verify that it is written to database when clicking “Done”.

Related user stories: 1.2.3

2.2.7 Register dynamic exercises:

Description: Register result for performed dynamic exercise
Precondition: The user has selected to start a workout
Test steps:

1. Click on a cardio exercise
2. Verify that the activity for register dynamic is active

Related user stories: 1.2.6

2.2.8 Register dynamic exercises: Not valid reps

Description: Register result for performed dynamic exercise
Precondition: The user has selected to start a workout
Test steps:

1. Set number of reps to zero (or blank), weight either blank, zero or decimal number)
2. Press “Add set”.
3. Verify that the set is not added to “Current sets” and an error is displayed.

Related user stories: 1.2.6

2.2.9 Register dynamic exercises: Valid reps

Description: Register result for performed dynamic exercise
Precondition: The user has selected to start a workout
Test steps:

1. Enter a number greater than zero in Reps and whatever you want in weight (blank, zero or decimal number).
2. Press “Add set”.
3. Note that the set is added to “Current sets”.
4. Verify that it is written to database when clicking “Done”.

Related user stories: 1.2.6

2.2.10 Sets from last time

Description: See sets from last time
Precondition: The user has performed and saved the sets of an exercise
Test steps:

1. Choose to register new results for an exercise you have performed before.
2. Verify that the last time sets is listed in the view.

Related user stories: 1.2.9

2.2.11 Add a workout with no name(SHOULD NOT BE POSSIBLE)

Description: Add a workout with no name

Precondition: Accessibility to Workout-Activity(Test case 2.1)

Test steps:

1. Choose to register new results for an exercise you have performed before.
2. Verify that the last time sets is listed in the view.

Related user stories: 1.2.9

Exercises

3.1 View all exercises

Description: View all exercises

Precondition: the start menu is shown test case 1.1

Test steps:

1. Push the exercise button
2. Verify that list exercise view is shown

Related user stories: 2.1

3.2 Test Exercise home button

Description: Test Exercise home button

Precondition: Testfallet som testar Exerciseknappen

Test steps:

1. Push Exercise Button
2. In Exercise Activity push the home button
3. Verify that the home screen is shown

Related user stories: 2.1

3.3 Enter name on new exercise

Description: Enter name on new exercise

Precondition: The exercise window is active and the test case 1.1.1 successful

Test steps:

1. Push ADD EXERCISE! Button
2. Write Exercise name
3. Push Add
4. The activity edit Exercise should show up with the exercise name as title

Related user stories: 2.9, 2.2

3.4 Enter no name on a new exercise

Description: Enter no name on a new exercise

Precondition: The exercise window is active and the test case 1.1.1

successful

Test steps:

1. Push “ADD EXERCISE!” - Button
2. Push Add without adding a name
3. A text will appear in the textbox, “Please enter a name”

Related user stories: 2.8, 2.2

3.5 Add data for a new exercise and press cancel(With no data)

Description: Add data for a new exercise and also adds the exercise

Precondition: That the Edit Exercise activity is active and also test case 1.2.1

Test steps:

1. Push “ADD EXERCISE!” - Button
2. Write a exercise name
3. Edit Exercise activity will pop-up
4. Choose musclegroups/Cardio and click Save.
5. Verify that List Exercise activity starts.

Related user stories: 2.9

3.6 Add a new exercise with all the data(Maximum settings)

Description: Add a new exercise with all the data

Precondition: The activity Edit exercise is working and test case 3.3 is working.

Test steps:

1. Push “ADD EXERCISE!” – Button
2. Write a exercise name
3. Edit Exercise activity will pop-up
4. Choose musclegroups/Cardio, fill in notes and data and click Save.
5. Verify that List Exercise activity starts.

Related user stories: 2.2, 2.10

3.7 Edit an existing exercise

Description: Edit an existing exercise

Precondition: The list exercise view is active testcase 1.2.2, 1.2.3

Test steps:

1. Click on an existing exercise
2. Edit something in the exercise
3. Click Save button.
4. Verify that List Exercise activity starts.

Related user stories: 2.3

3.8 Delete an existing exercise

Description: Delete an existing exercise
Precondition: The list exercise view is active and test cases 1.2.2, 1.2.3
Test steps:

1. Longclick an exercise
2. On the pop-up menu, click “Delete”
3. Verify that the current activity is List Exercise Activity

Related user stories: 2.3

3.9 Abort adding exercise

Description: Abort adding exercise
Precondition: The list exercise view is active test case 1.2.2, 1.2.3
Test steps:

1. Push ADD EXERCISE! Button
2. Fill in Exercise name
3. Push Add
4. Go to the bottom and push cancel
5. Verify that the current activity is List Exercise

Related user stories: 2.6

3.10 Rename an existing exercise

Description: Rename an existing exercise
Precondition: The list exercise view is active test case 1.2.2, 1.2.3
Test steps:

1. Isn’t implemented yet

Related user stories: 2.5

3.11 Cancel when editing an exercise

Description: Cancel when editing an exercise

Precondition: The list exercise view is active test case 1.2.2, 1.2.3
Test steps:

1. Push an exercise
2. Edit some info
3. Go to the bottom and push cancel
4. Verify that the exercise not have been changed

Related user stories: 2.7

Profile

4.1 Open profile
Description: Open profile
Precondition: The app is started
Test steps:

1. Select the Profile-button
2. Verify that the right activity starts

Related user stories: 3.1

4.2 Add data to profile
Description: Add data to profile
Precondition: Able to go into the profile menu(4.1)
Test steps:

1. Add data to all fields
2. Click the button “update profile”
3. Verify that the main activity starts

Related user stories: 3.1

4.3 Add data to profile without filling in all fields
Description: Add data to profile without filling in all fields
Precondition: Able to go into the profile menu(4.1)
Test steps:

1. Add data but not to all of the fields
2. Click the button “update profile”
3. Verify that a message pop-up that says “Fill in correct information”.

Related user stories: 3.1

Settings

5.1 Change distance unit

Description: Able to change distance unit

Precondition: Able to go into settings menu(test case 1.7)

Test steps:

1. Go into settings menu
2. Click the label called distance
3. Choose unit
4. Verify that the right unit that was clicked is now active

5.2 Change language

Description: Able to change language

Precondition: Able to go into settings menu(test case 1.7)

Test steps:

1. Go into settings menu
2. Click the label called language or språk
3. Choose language
4. Verify that the right language is used

5.3 Change weight unit

Description: Able to change weight unit

Precondition: Able to go into settings menu(test case 1.7)

Test steps:

1. Go into settings menu
2. Click the label called weight
3. Choose unit
4. Verify that the right unit that was clicked is now active

JUnit test cases for database

6.1 Test add 100 exercise

Description: Test add 100 exercises

Test steps:

1. Check how many exercises that is in the database
2. Adds 100 exercises
3. Verify that 100 exercises is added

6.2 Test add one exercise

Description: Test add one exercise

Test steps:

1. Check how many exercises that is in the database
2. Adds one exercise
3. Verify that one exercise is added

6.3 Test delete all exercises

Description: Test delete all exercises

Test steps:

1. Check how many exercises that is in the database
2. Delete all exercises
3. Verify that there are no exercises in the database

6.4 Test delete one exercise

Description: Test delete one exercise

Test steps:

1. Check how many exercises that is in the database
2. Delete one exercise
3. Verify that one exercise is deleted

6.5 Test receive exercise with specific id

Description: Test receive exercise with specific id

Test steps:

1. Receive an exercise with specific ID
2. Check that ID is right
3. Verify that the name isn’t null
4. Verify that the TypeID isn’t null

6.6 Test edit one exercise

Description: Test edit one exercise

Test steps:

1. Receive an exercise with specific ID
2. Change the description of the exercise
3. Edit the exercise
4. Verify that the edits that recently were done works.

6.7 Test add profile

Description: Test add profile

Test steps:

1. Checks number of profiles in the database
2. Adds a profile
3. Verify that the profile is added

6.8 Test to get performed workouts

Description: Test get performed workouts

Test steps:

1. Checks how many workouts it is in the database

6.9 Test add cardio set

Description: Test add cardio set

Test steps:

1. Checks how many sets that are currently in the database
2. Adds one cardio set
3. Verify that the set is added

6.10 Test add dynamic set

Description: Test add dynamic set

Test steps:

1. Checks how many sets that are currently in the database
2. Adds one dynamic set
3. Verify that the set is added

6.11 Test add static set

Description: Test add static set

Test steps:

1. Checks how many sets that are currently in the database
2. Adds one static set
3. Verify that the set is added

6.12 Test delete set

Description: Test delete set

Test steps:

1. Checks how many sets that are currently in the database
2. Delete one set
3. Verify that the set was deleted

6 Automatic test

6.1 Code coverage

Since Emma wasn't implemented in this application we don't know how much coverage we had. The goal is of course 100% but since we didn't implemented Emma we don't know how much we covered.

6.2 Nightly builds

None.

6.3 Unit test

Things that are difficult to test are example the scrolling since some of the activities doesn't have enough workouts or exercises in it.

Test report

We always tested the temporary tagged version since it was the important thing to test. During a week we waited to fix the test until we wanted to release a new .apk.

Test ID	What is tested?	Result	Bugs	Reflection
1.1	Launching the app	OK	None	None
1.2	List Workouts in Workout-Activity	OK	None	None
1.3	List all Exercises in Exercise-activity	OK	None	None
1.4	List the History in History-activity	OK	None	None
1.5	See your Statistic in Statistic-Activity	Not implemented	Not implemented	Not implemented
1.6	Show your Profile in Profile-Activity	OK	None	None
1.7	List the Settings-menu	OK	None	None
2.1.1	Add a workout	OK	None	None
2.1.2	Cancel add-workout dialog	OK	None	None
2.1.3	Search for Exercises by muscle group in Edit Workout	Not implemented	Not implemented	Not implemented
2.1.4	Open edit a workout	OK	None	None
2.1.5	Add exercise to Workout	OK	None	None
2.1.6	Remove exercise from Workout	OK	None	None

2.1.7	Clone the workout	Not implemented	Not implemented	Not implemented
2.1.8	Delete a workout	OK	None	None
2.2.1	Register cardio exercises	OK	None	None
2.2.2	Register cardio exercises: Not valid time	OK	None	None
2.2.3	Register cardio exercises: Valid time	OK	Yes, language wasn't implemented but became fixed	None
2.2.4	Register static exercises	OK	None	None
2.2.5	Register static exercises: Not valid time	OK	None	None
2.2.6	Register static exercises: Valid time	OK	Yes, language wasn't implemented but became fixed	None
2.2.7	Register dynamic exercises	OK	None	None
2.2.8	Register dynamic exercises: Not valid reps	OK	None	None
2.2.9	Register dynamic exercises: Valid reps	OK	Yes, language wasn't implemented but became fixed	None
2.2.10	Sets from last time	OK	Yes, wasn't implemeted but became fixed	None
2.2.11	Add a workout with no name	OK	Yes, wasn't implemeted but became fixed	None
3.1	View all exercises	OK	None	None
3.2	Test Exercise home button	Error	Doesn't find the home button	Hard to find the home-button
3.3	Enter name on new exercise	OK	None	None
3.4	Enter no name on a new exercise	OK	None	None
3.5	Add data for a new exercise and press	OK	None	None

	cancel(No data)			
3.6	Add a new exercise with all the data(Maximum settings)	OK	None	None
3.7	Edit an existing exercise	OK	None	None
3.8	Delete an existing exercise	OK	None	None
3.9	Abort adding exercise	OK	None	None
3.10	Rename an existing exercise	OK	None	None
3.11	Cancel when editing an exercise	OK	None	None
4.1	Open profile	OK	None	None
4.2	Add data to profile	OK	None	None
4.3	Add data to profile without filling in all fields	OK	None	None
5.1	Change distance unit	OK	None	None
5.2	Change language	OK	Since some phones got english as standard this test may fail	None
5.3	Change weight unit	OK	None	None
6.1	Test add 100 exercise	OK	None	None
6.2	Test add one exercise	OK	None	None
6.3	Test delete all exercises	OK	None	None
6.4	Test delete one exercise	OK	None	None
6.5	Test receive exercise with specific id	OK	None	None
6.6	Test edit one exercise	OK	None	None
6.7	Test add profile	OK	None	None
6.8	Test to get performed workouts	OK	None	None
6.9	Test add cardio set	OK	None	None

6.10	Test add dynamic set	OK	None	None
6.11	Test add static set	OK	None	None
6.12	Test delete set	OK	None	None