

APP INVENTOR ΒΑΣΕΙΣ ΔΕΔΟΜΕΝΩΝ ΠΡΟΣΒΑΣΗ ΣΤΟ ΔΙΑΔΙΚΤΥΟ Β' ΜΕΡΟΣ

ΣΟΦΙΑ ΤΖΕΛΕΠΗ

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ΜΑΙΟΣ 2013

2

Επανάληψη

3

Hello you

Hello you

4

Πηγές

- App Inventor Tutorial 1.pdf
- HelloYou.zip
- HelloYou.apk

Emulator



Hello you – Component Designer

5

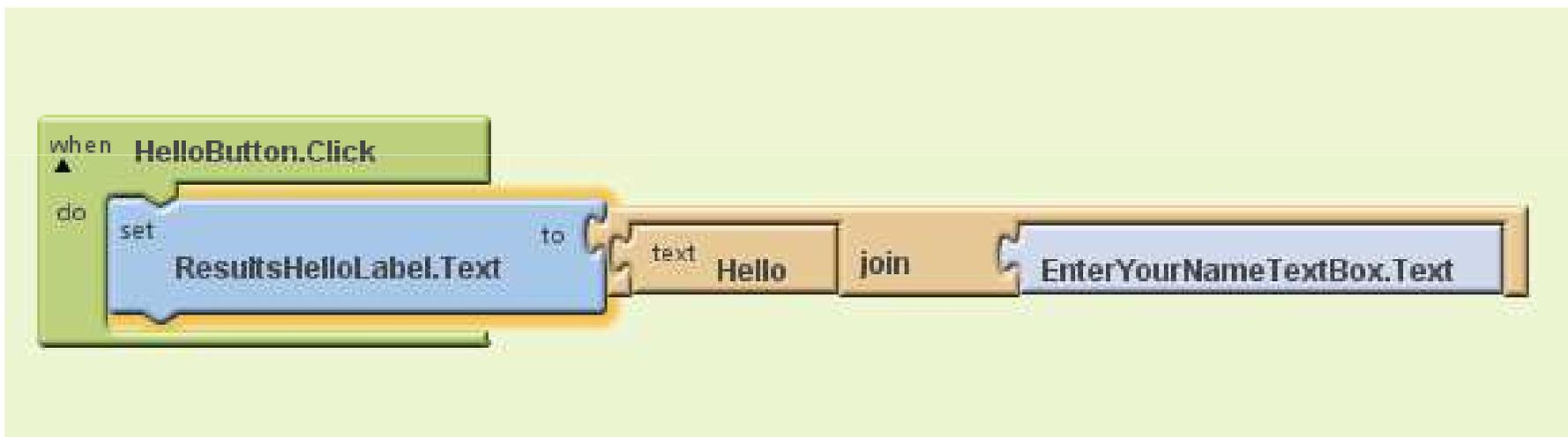
The screenshot displays the App Inventor Component Designer interface, which is divided into three main sections: Viewer, Components, and Properties.

- Viewer:** Shows a mobile app preview for 'Screen1'. The app has a title bar with the time '5:09 PM'. Below the title bar, the text 'Enter your Name and say Hello' is displayed. There is a text input field and a button labeled 'Hello you'.
- Components:** Lists the components used in the app: 'Screen1', 'HelloLabel', 'EnterYourNameTextBox', 'HelloButton', and 'ResultsHelloLabel'. The 'ResultsHelloLabel' component is currently selected.
- Properties:** Shows the properties for the selected 'ResultsHelloLabel' component. The properties include: 'BackgroundColor' (set to 'None'), 'FontBold' (checkbox), 'FontItalic' (checkbox), 'FontSize' (set to '14.0'), 'FontTypeface' (set to 'default'), 'Text' (empty input field), 'TextAlignment' (set to 'left'), 'TextColor' (set to 'Black'), 'Visible' (set to 'showing'), 'Width' (set to 'Automatic...'), and 'Height' (set to 'Automatic...').

At the bottom of the Components panel, there are 'Rename' and 'Delete' buttons. Below the Components panel is a 'Media' section.

Hello you – Blocks Editor

6



7

Poll

Poll

8

Πηγές

- Poll.zip
- Poll.apk

Emulator



Poll – Components Designer

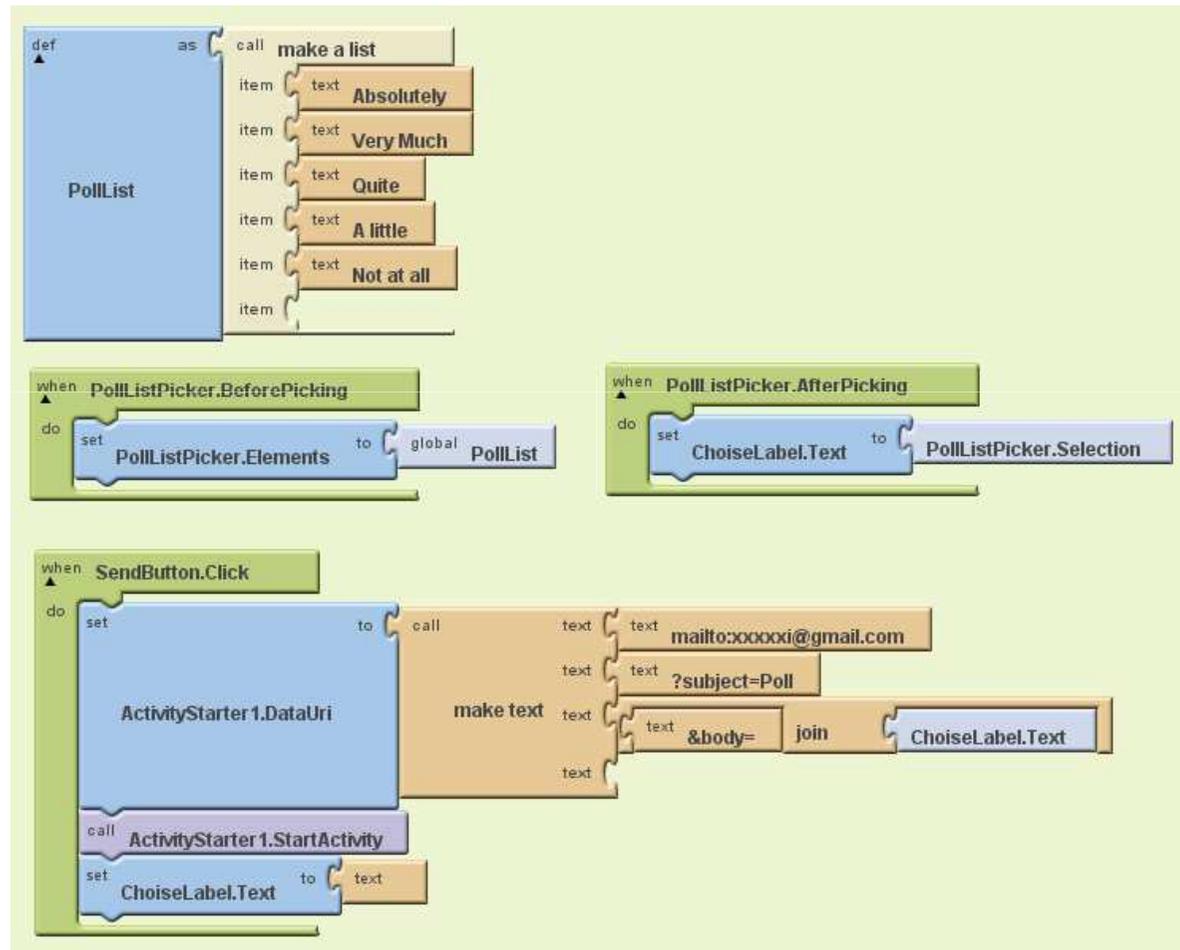
9

The screenshot displays the App Inventor Components Designer interface. On the left is the 'Viewer' showing a poll application with the text 'How do you like my presentation so far?', a text input field labeled 'Your Choice:', and a 'Send' button. Below the viewer is a 'Non-visible components' section containing 'ActivityStarter1'. On the right is the 'Components Designer' showing a tree view of the screen's components: 'Screen1', 'PollListPicker', 'HorizontalArrangement1', 'ChoiseTextLabel', 'ChoiseLabel', 'SendButton', and 'ActivityStarter1'. A red arrow points from the 'ActivityStarter1' component in the tree to the 'Action' property field in the right-hand configuration panel, which is set to 'android.intent.action.VIE'. The configuration panel also includes fields for 'ActivityClass', 'ActivityPackage', 'DataType', 'DataUri', 'ExtraKey', 'ExtraValue', and 'ResultName'. At the bottom of the components designer are 'Rename', 'Delete', and 'Upload new...' buttons.

android.intent.action.VIEW

Poll – Blocks Editor

10



11

Pick the Color

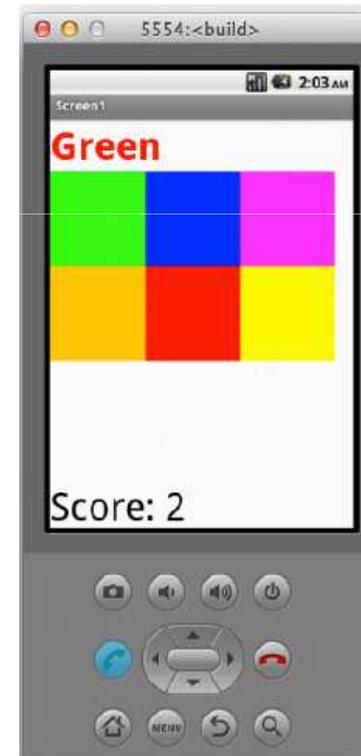
Pick the Color

12

Πηγές

- PickTheColor.pdf
- PickTheColor.zip
- PickTheColor.apk

Emulator



Pick the Color – Components Designer

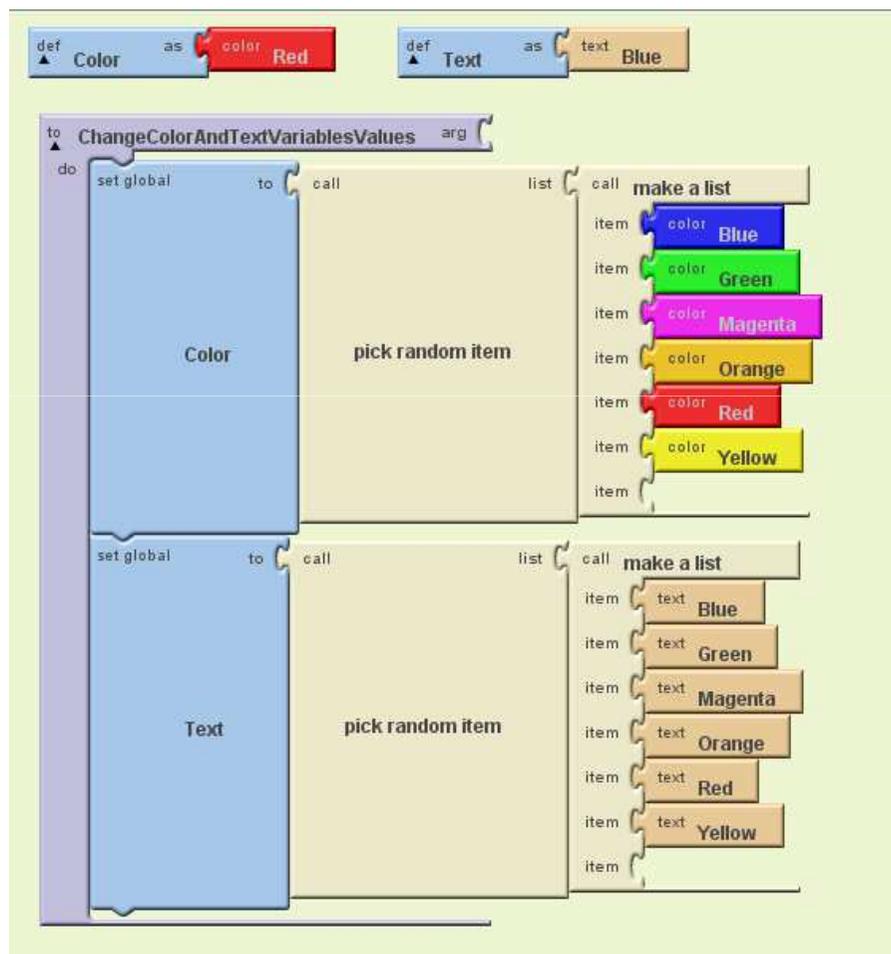
13

The screenshot displays the App Inventor Components Designer interface for a project named 'Screen1'. The interface is divided into four main sections: Palette, Viewer, Components, and Properties.

- Palette:** Lists various components categorized into Basic (Button, Canvas, CheckBox, Clock, Image, Label, ListPicker, PasswordTextBox, TextBox, TinyDB), Media, Animation, Social, Sensors, Screen Arrangement, LEGO® MINDSTORMS®, Other stuff, Not ready for prime time, and Old stuff.
- Viewer:** Shows a preview of the application. The screen displays the word 'Green' in a large yellow font. Below it is a 2x3 grid of colored buttons: Green, Blue, and Magenta in the top row; Orange, Red, and Yellow in the bottom row. At the bottom of the screen, a label displays 'Score: 0'. A checkbox 'Display hidden components in Viewer' is checked. Below the viewer, a 'Non-visible components' section lists 'Sound1' and 'ChangeLabelTimer'.
- Components:** A tree view showing the hierarchy of components on the screen: Screen1 (VerticalArrangement1, TableArrangement1, HorizontalArrangement1, Sound1, ChangeLabelTimer). The 'ScoreLabel' component is highlighted.
- Properties:** Shows the properties for the selected 'ScoreLabel' component, including BackgroundColor (None), FontBold (unchecked), FontItalic (unchecked), FontSize (40), FontTypeface (default), Text (Score: 0), TextAlignment (left), TextColor (Black), Visible (showing), Width (Automatic...), and Height (Automatic...).

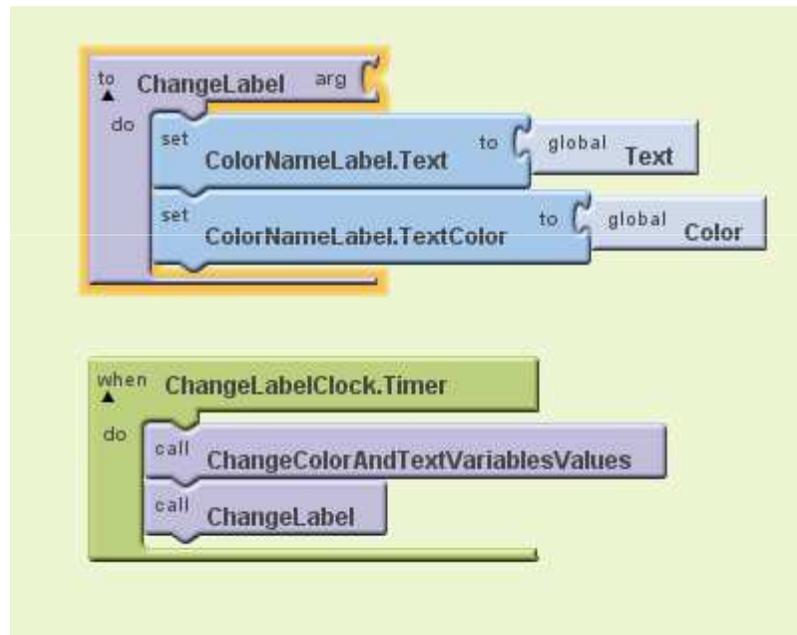
Pick the Color – Blocks Editor (1)

14



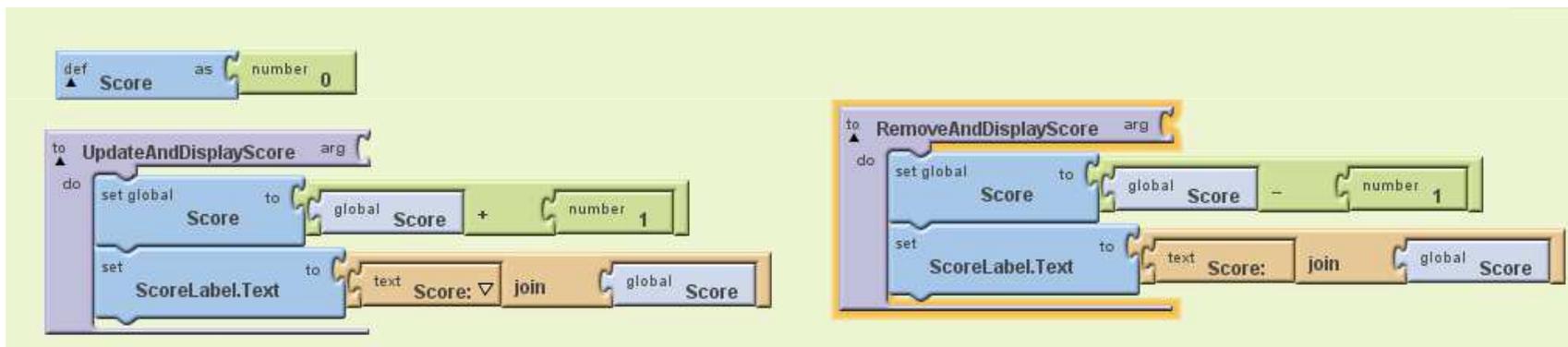
Pick the Color – Blocks Editor (2)

15



Pick the Color – Blocks Editor (3)

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Pick the Color – Blocks Editor (4)

17

The image displays six blocks from the App Inventor Blocks Editor, each representing a button click event. Each block is structured as follows:

- when [ButtonName].Click** (green block)
- do** (orange block)
- ifelse** (orange block) with a **test** condition: `ColorNameLabel.TextColor = [color]`
- then-do** (purple block): `call UpdateAndDisplayScore`
- else-do** (purple block): `call RemoveAndDisplayScore`

The color blocks used in the tests are: Blue, Magenta, Red, Green, Yellow, and Orange. A trash can icon is visible in the bottom right corner of the editor area.

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Paris Map Tour

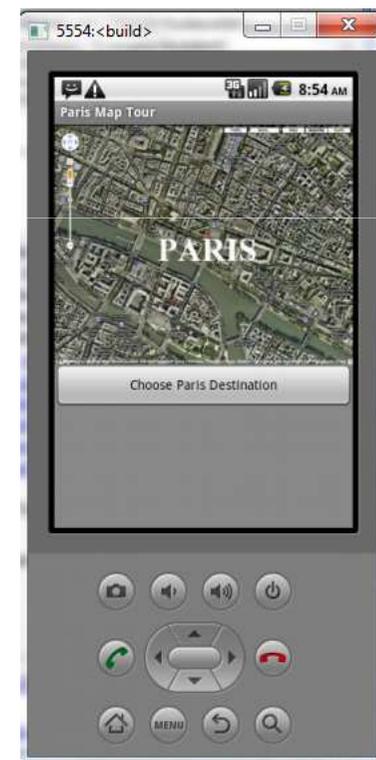
Paris Map Tour

19

Πηγές

- chόMap.pdf
- parismap.png
- ParisMapTour.zip
- ParisMapTour.apk

Emulator



Paris Map Tour – Component Designer

20

Display hidden components in Viewer

Paris Map Tour

5:09 PM

Choose Paris Destination

Non-visible components

ActivityStarter1

Screen1

- Image1
- HorizontalArrangement1
 - ListPicker1
 - ActivityStarter1

Action

android.intent.action.VIEW

ActivityClass

com.google.android.ma

ActivityPackage

com.google.android.apj

DataType

DataUri

ExtraKey

ExtraValue

ResultName

Rename Delete

Media

parismap.png

Upload new...

android.intent.action.VIEW

**com.google.android.maps.
MapsActivity**

**com.google.android.apps.
maps**

<https://maps.google.com/?q=Tour Eiffel>

21

The image is a screenshot of a Google Maps browser window. The address bar shows the URL <https://maps.google.com/?q=Tour Eiffel>. The search bar contains the text "Tour Eiffel". The map displays the Eiffel Tower in Paris, France, with a red location pin. The left sidebar provides information about the tower, including its name in Greek, address, phone number, and a rating of 26 out of 2230 reviews. The map shows the surrounding area, including the Seine river, various streets, and landmarks like the Trocadéro and the Champ de Mars.

Google
Tour Eiffel

Λήψη οδηγιών Τα μέρη μου

Tour Eiffel

Πύργος του Αίφελ
Champ de Mars, 5 Avenue Anatole France,
75007 Paris, Γαλλία
+33 892 70 12 39 - tour-eiffel.fr

26 2230 αξιολογήσεις
"I love this tower" -

Οδηγίες Αναζήτηση στην γύρω περιοχή Αποθήκευση σε... περισσότερα ▾

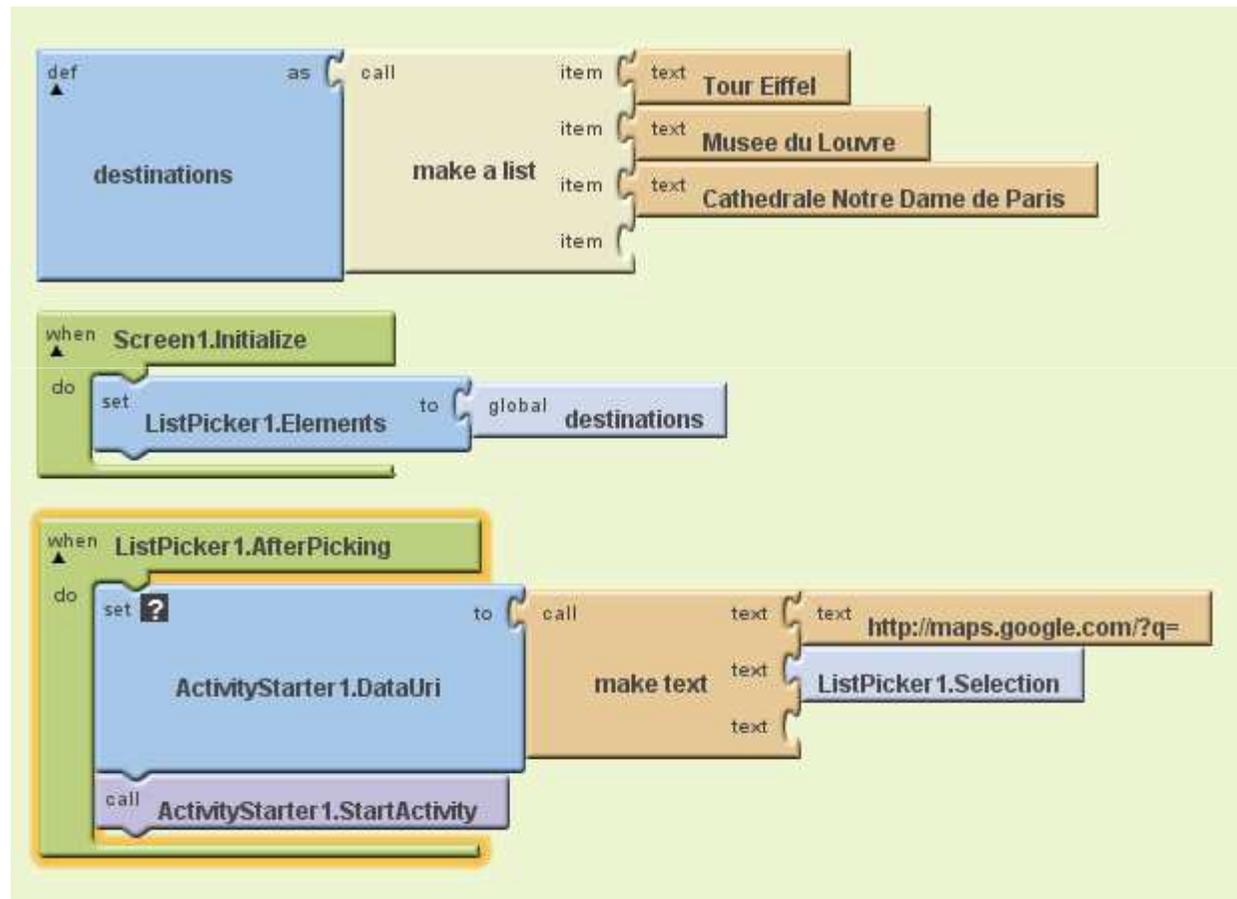
Αναφ. προβλημ. - Maps Labs - Βοήθεια
Χάρτες Google - ©2013 Google - Όροι χρήσης - Απόρρητο

1000 πόδια
200 μ

©2013 Δεδομένα χάρτη Google

Paris Map Tour – Blocks Editor

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Τοπικές Βάσεις Δεδομένων

Τι θα μάθω:

- TinyDB Component (Dear Diary, Help Me)

24

Dear Diary

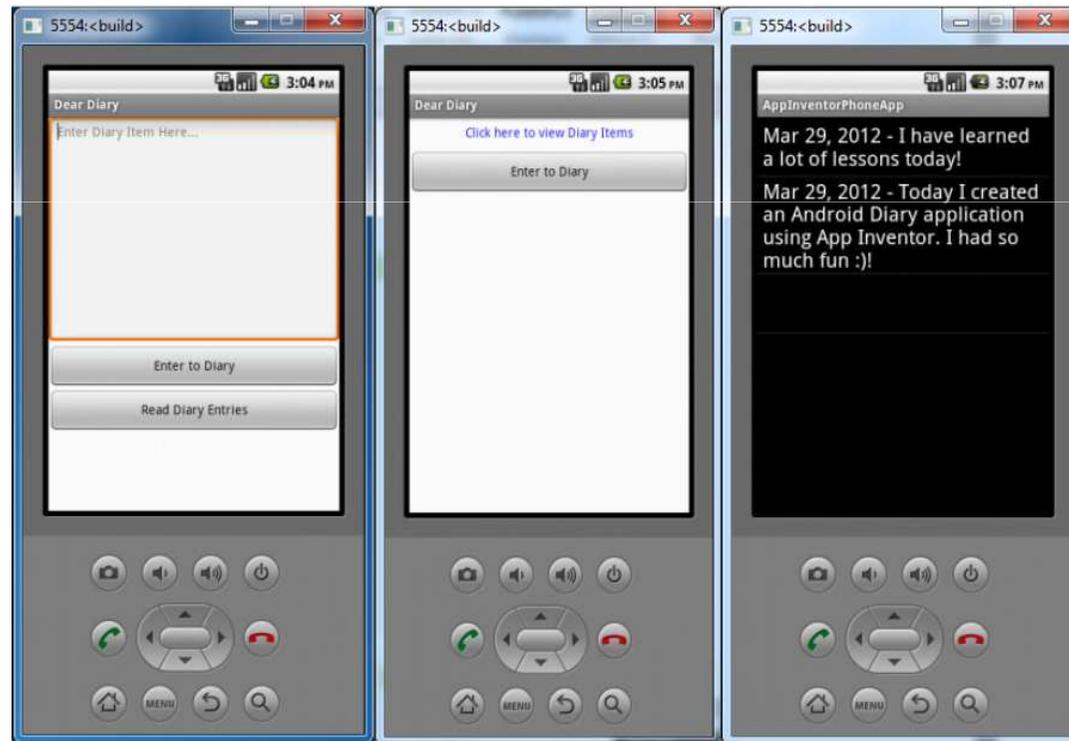
Dear Diary

25

Πηγές

- App Inventor Tutorial 6.pdf
- DearDiary.zip
- DearDiary.apk

Emulator



Dear Diary– Component Designer

26



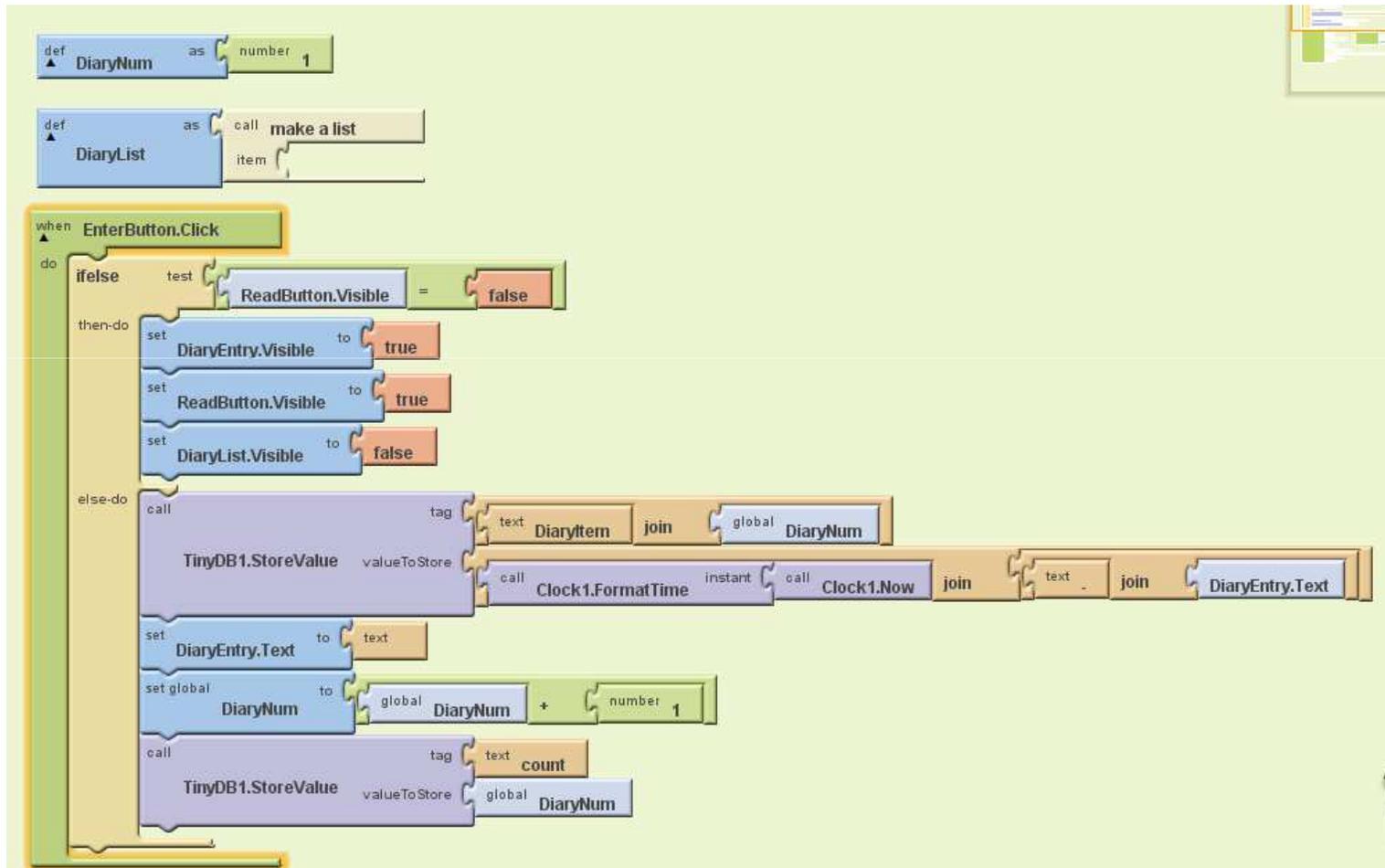
Components	Properties
<ul style="list-style-type: none">Screen1<ul style="list-style-type: none">DiaryListDiaryEntryEnterButtonReadButtonTinyDB1Clock1	<p>BackgroundColor <input type="checkbox"/> None</p> <p>ElementsFromString <input type="text"/></p> <p>Enabled <input checked="" type="checkbox"/></p> <p>FontBold <input type="checkbox"/></p> <p>Fontitalic <input type="checkbox"/></p> <p>FontSize <input type="text" value="14.0"/></p> <p>FontTypeface default</p> <p>Image None...</p> <p>Selection <input type="text"/></p> <p>Shape default</p> <p>Text <input type="text"/></p>

Rename Delete

Media

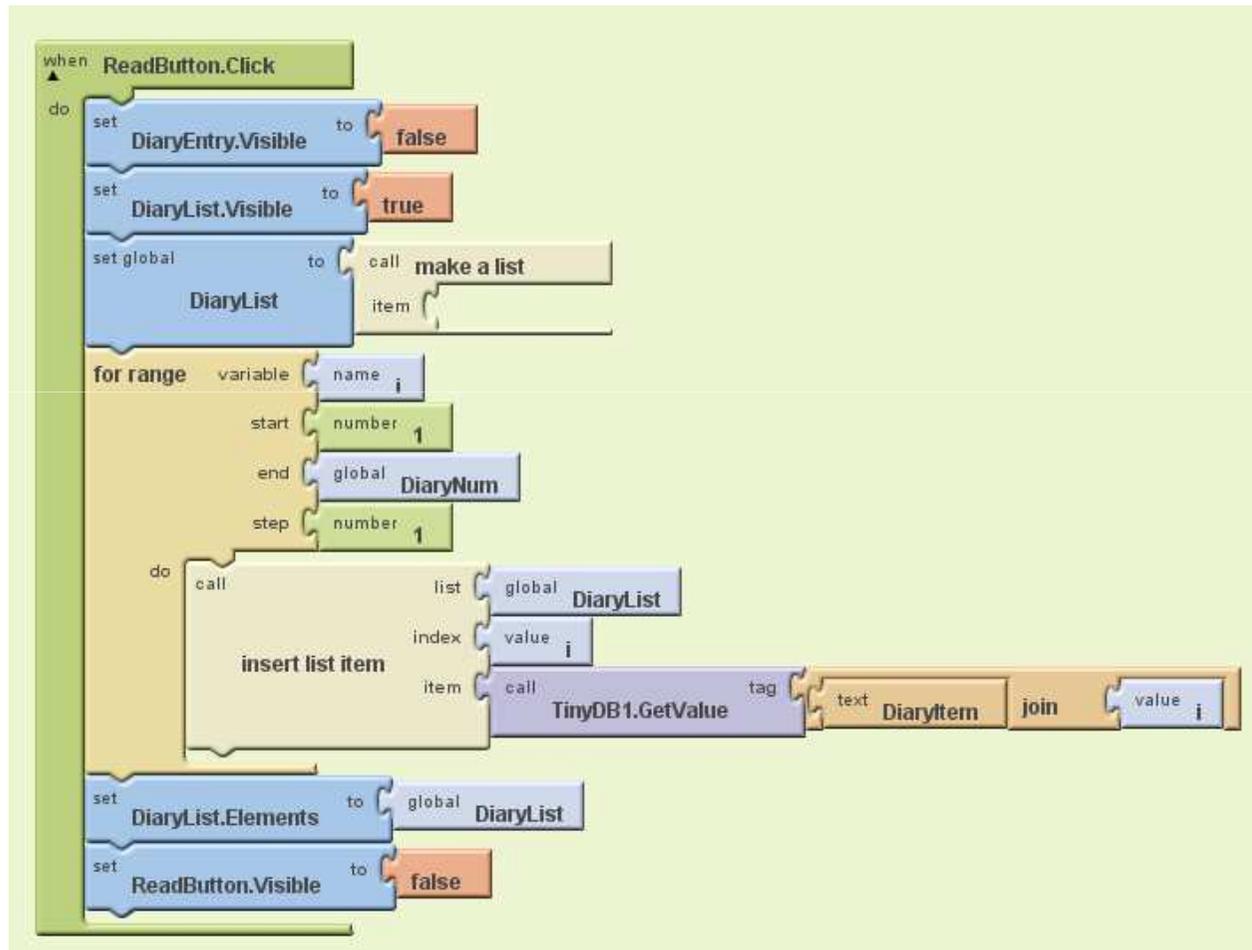
Dear Diary– Blocks Editor (1)

27



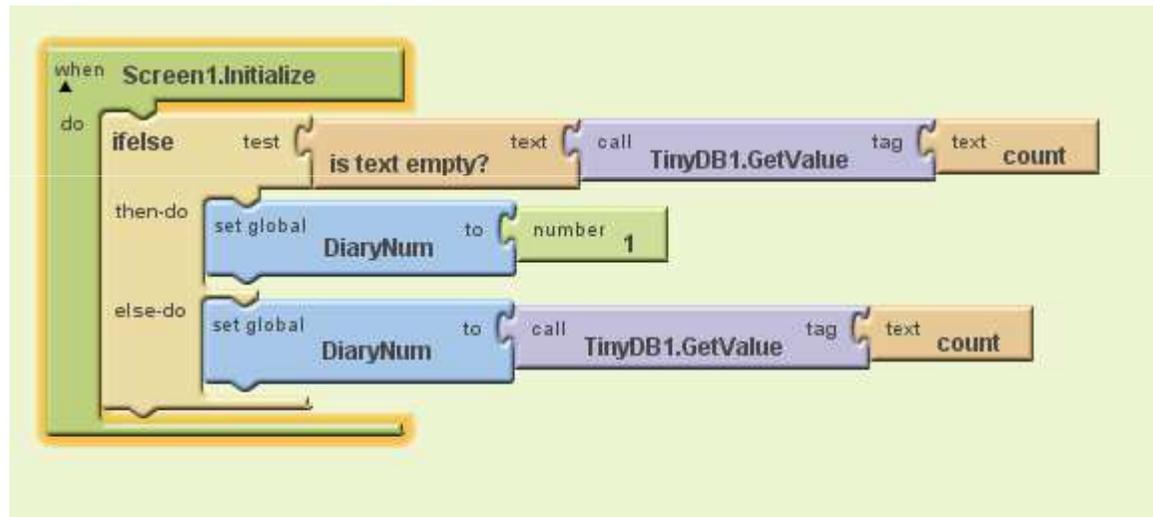
Dear Diary– Blocks Editor (2)

28



Dear Diary– Blocks Editor (3)

29



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Help Me!

Help Me!

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Πηγές

- App Inventor Tutorial 8.pdf
- helpme.png
- HelpMe.zip
- HelpMe.apk

Emulator



Help Me – Component Designer

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The screenshot displays the App Inventor Component Designer interface for an application named "Help Me".

Viewer: The main window shows a mobile app interface with a red "HELP" button. Below the button, there are labels for "Last message Sent:", "Position Fix Try:", and "Please enter Emergency Contact number:" followed by a text input field and a "Save contact" button.

Component Palette: The left sidebar lists components for "Screen1":

- ButtonScreen
 - btnHelp
 - IblMessageSent
 - IblMessageSentResult
 - IblPositionFixTry
 - IblPositionFixResult
- EmergencyContact
 - IblEmergencyContact
 - txtContactNumbe
 - btnSave
- TinyDB1
- Clock1
- Texting1
- LocationSensor1 (highlighted)

Buttons for "Rename" and "Delete" are visible below the palette.

Media: The bottom right section shows a "Media" area with the file "helpme.png" and an "Upload new..." button.

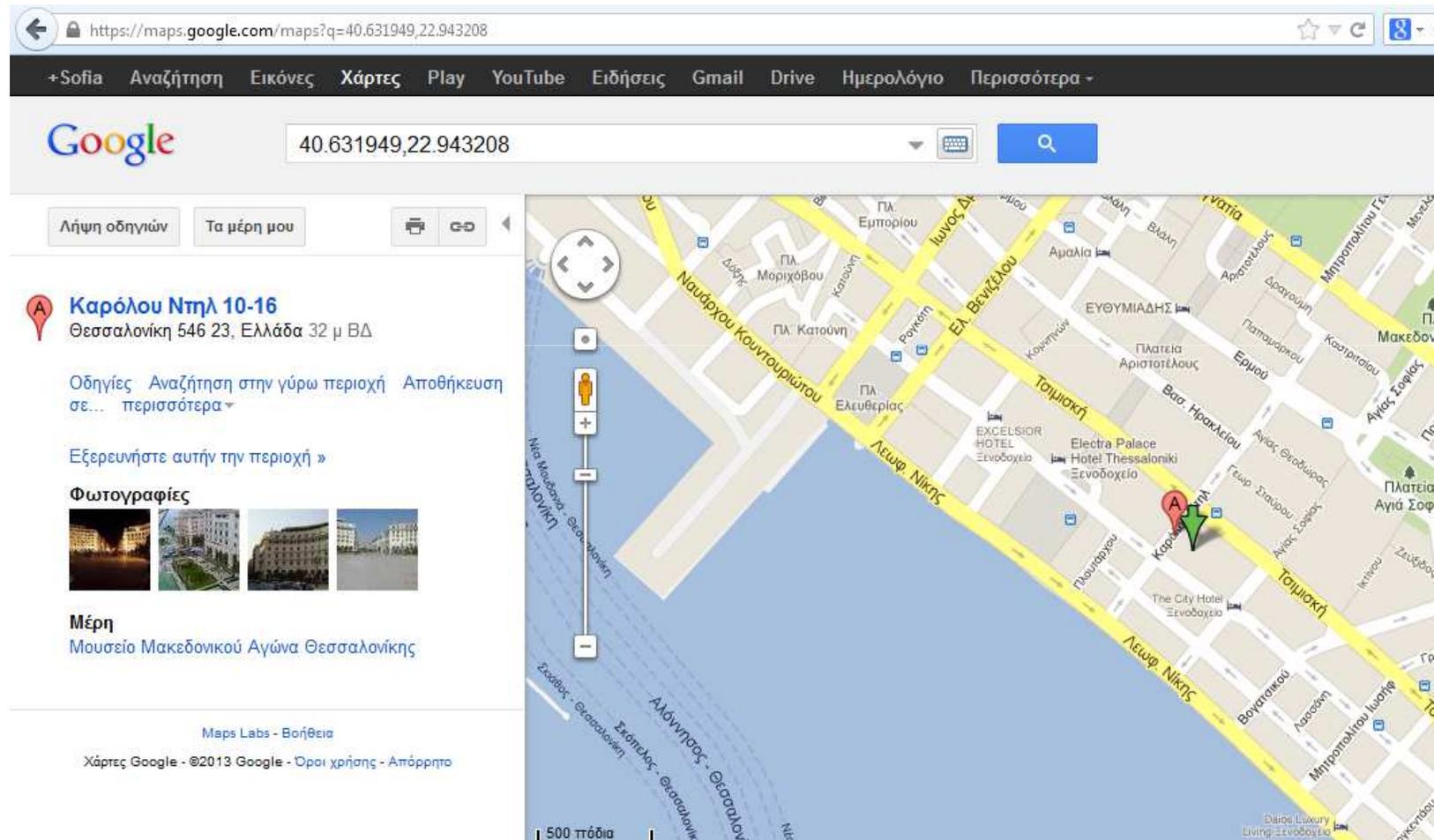
Properties: On the far right, the "LocationSensor1" component has the following properties:

- DistanceInterval: 0
- Enabled:
- TimeInterval: 60000

Non-visible components: At the bottom, a row of icons represents non-visible components: TinyDB1, Clock1, Texting1, and LocationSensor1 (highlighted).

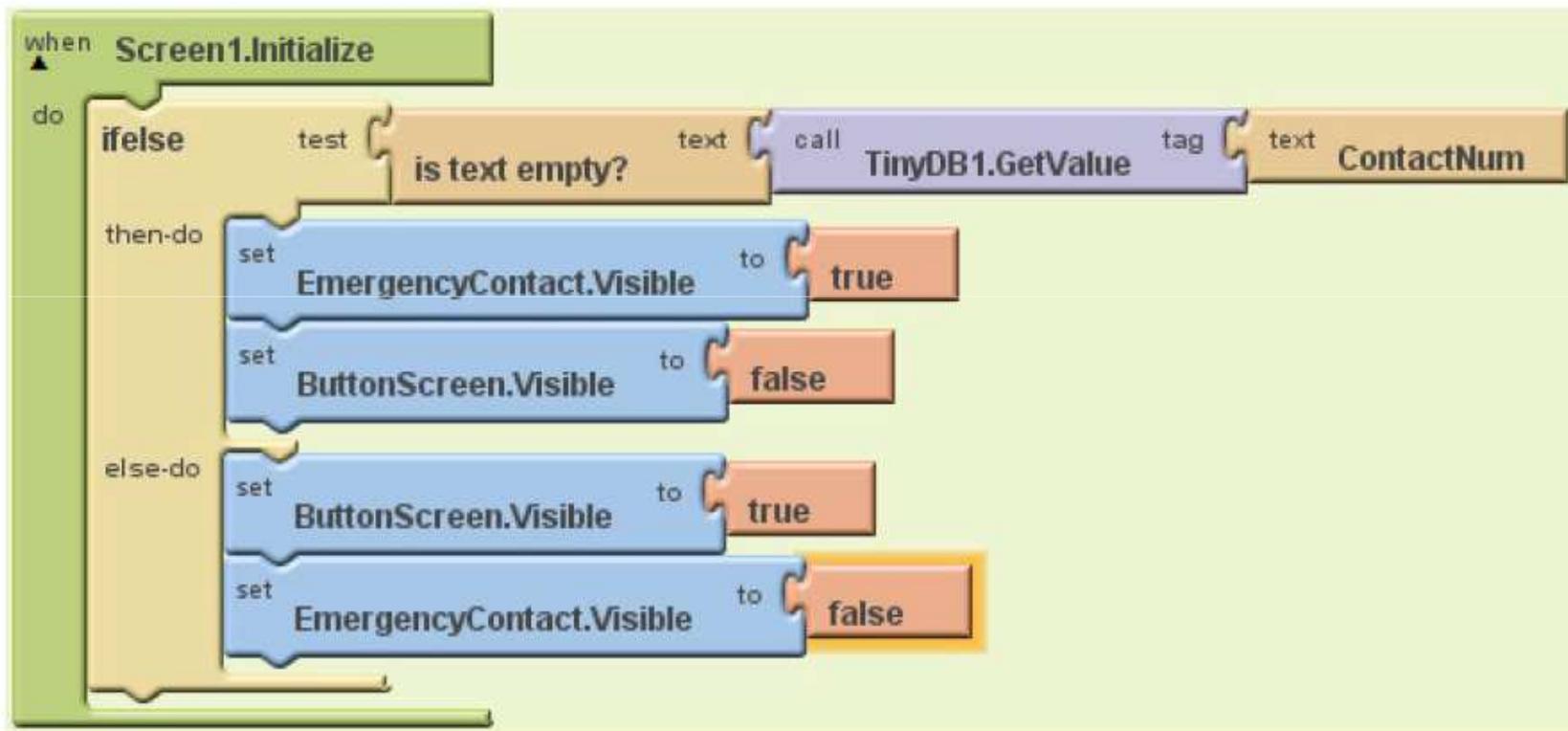
<https://maps.google.com/maps?q=40.631949,22.943208>

33



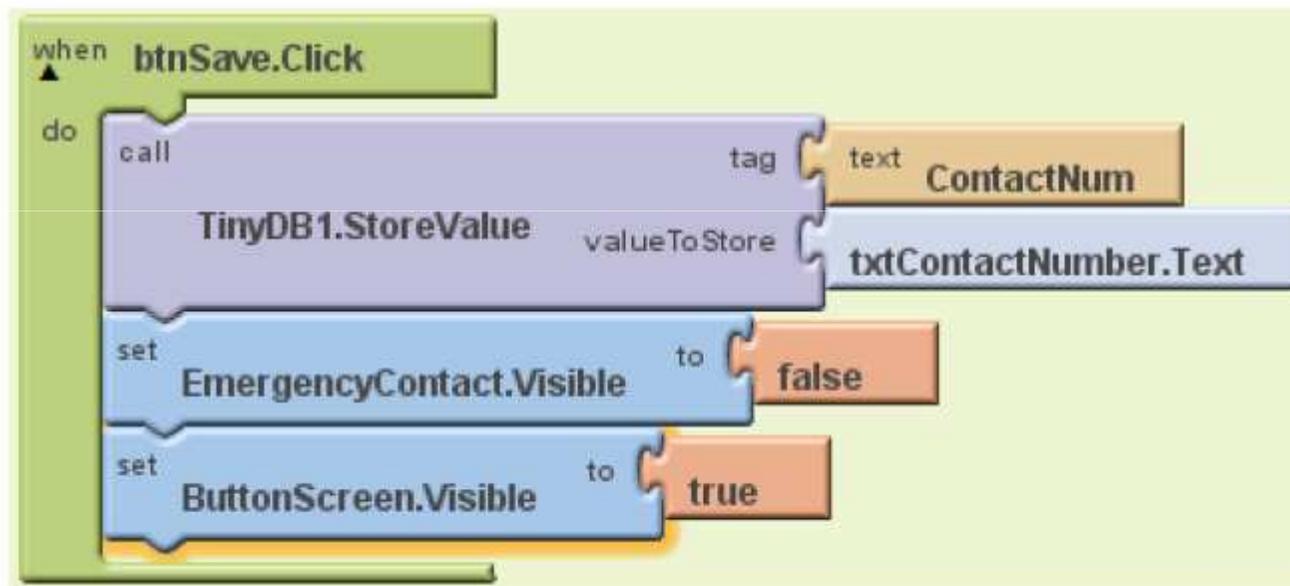
Help Me! - Blocks Editor (1)

34



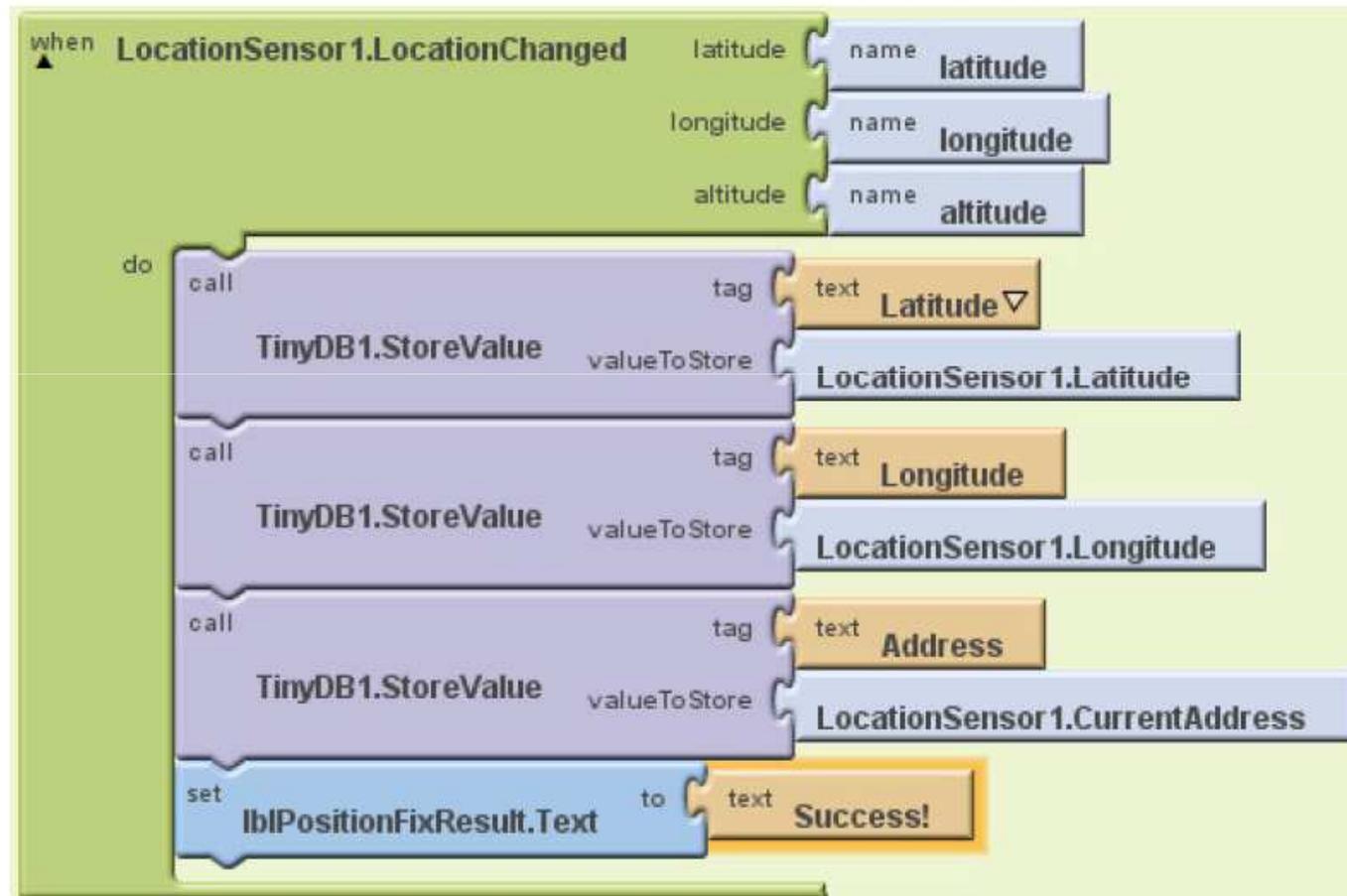
Help Me! - Blocks Editor (2)

35



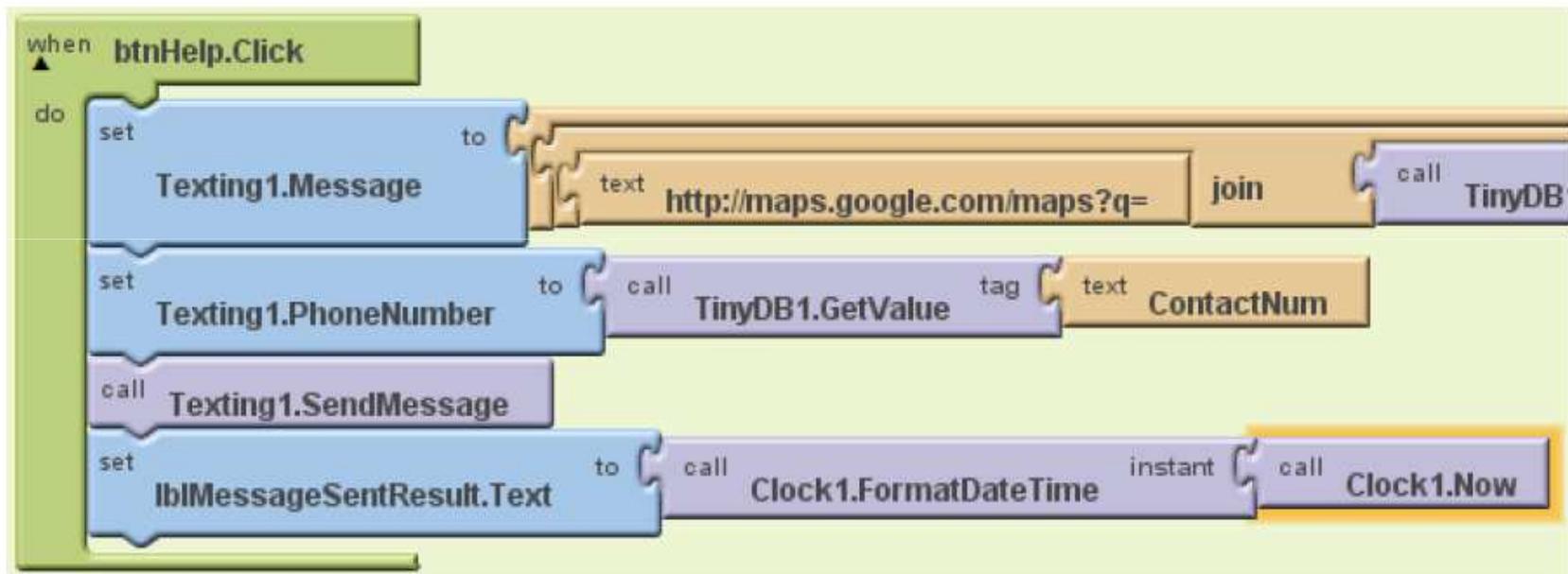
Help Me! - Blocks Editor (3)

36



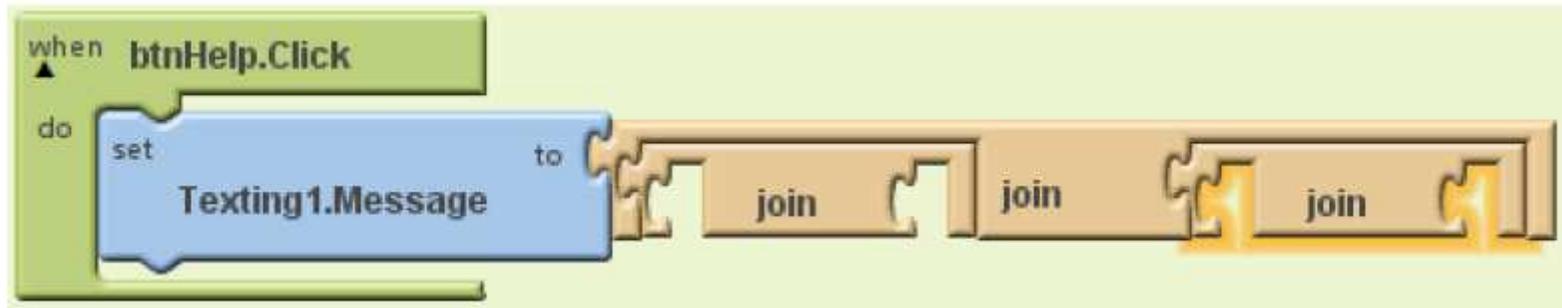
Help Me! - Blocks Editor (4)

37



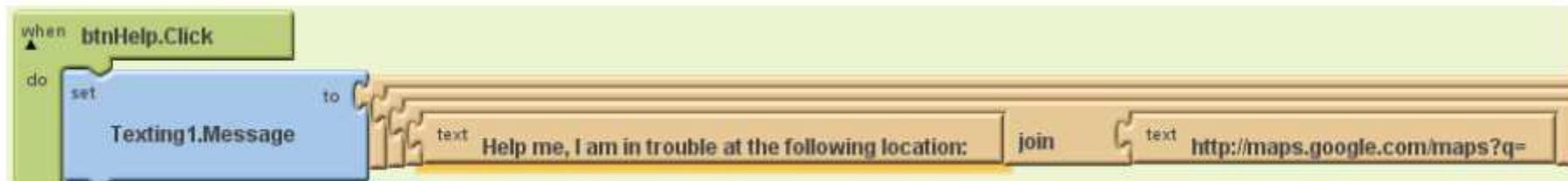
Help Me! - Blocks Editor (5)

38



Help Me! - Blocks Editor (6)

39



Διαδικτυακές Βάσεις Δεδομένων

Τι θα μάθω:

- TinyWebDB Component (Make Quiz, Take Quiz, Amazon in the BookStore)

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Make Quiz

Make Quiz

42

Πηγές

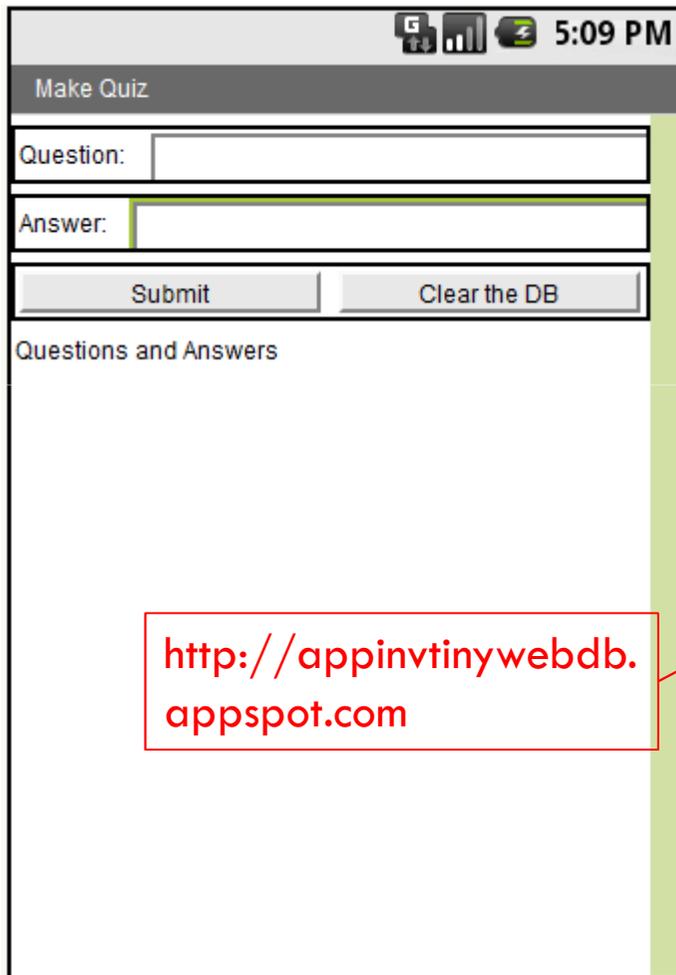
- [makequiz-and-takequiz-1.pdf](#)
- [MakeQuiz.zip](#)
- [MakeQuiz.apk](#)
- [TakeQuiz.zip](#)
- [TakeQuiz.apk](#)

Emulator

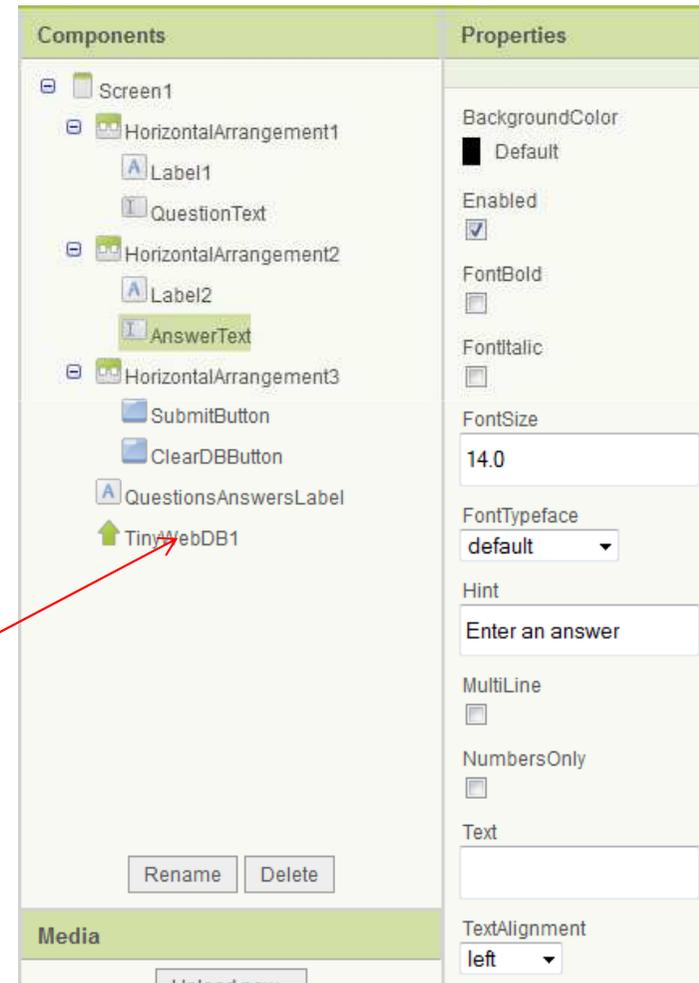


Make Quiz – Component Designer

43

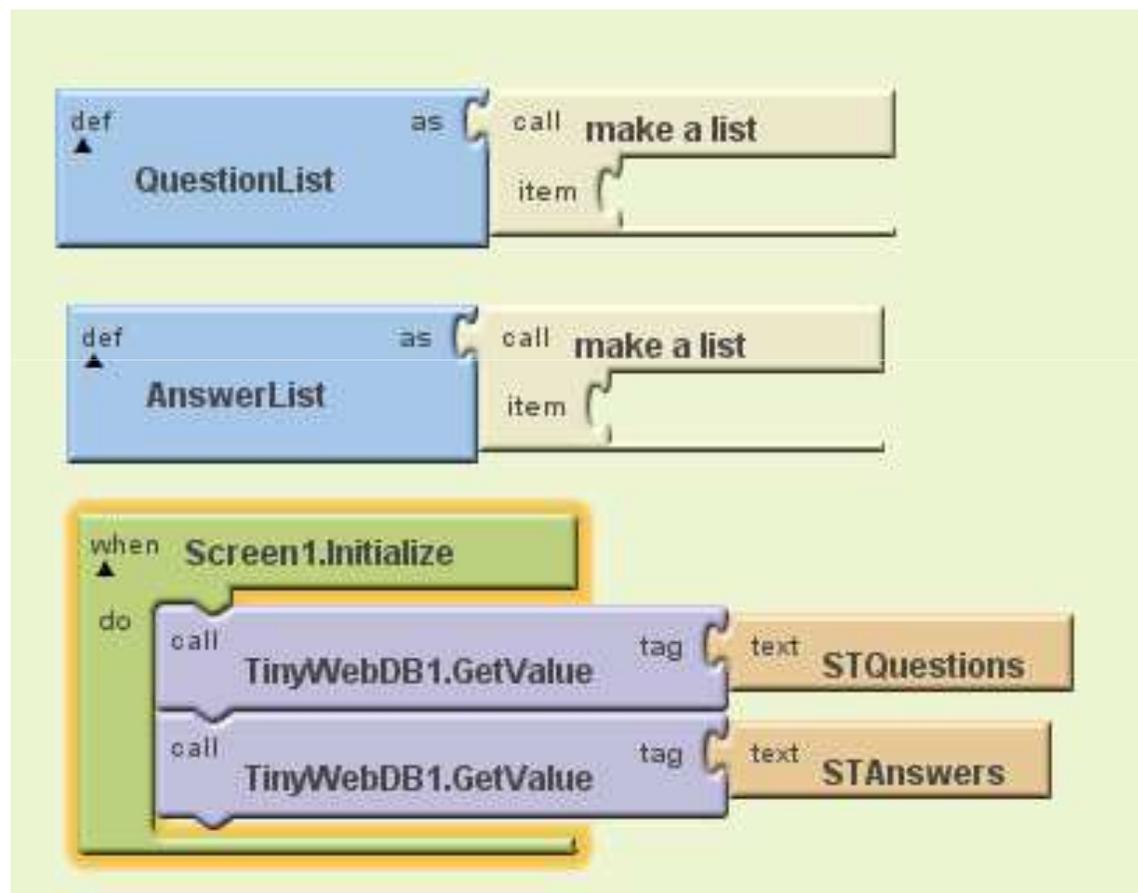


<http://appinvtinywebdb.appspot.com>



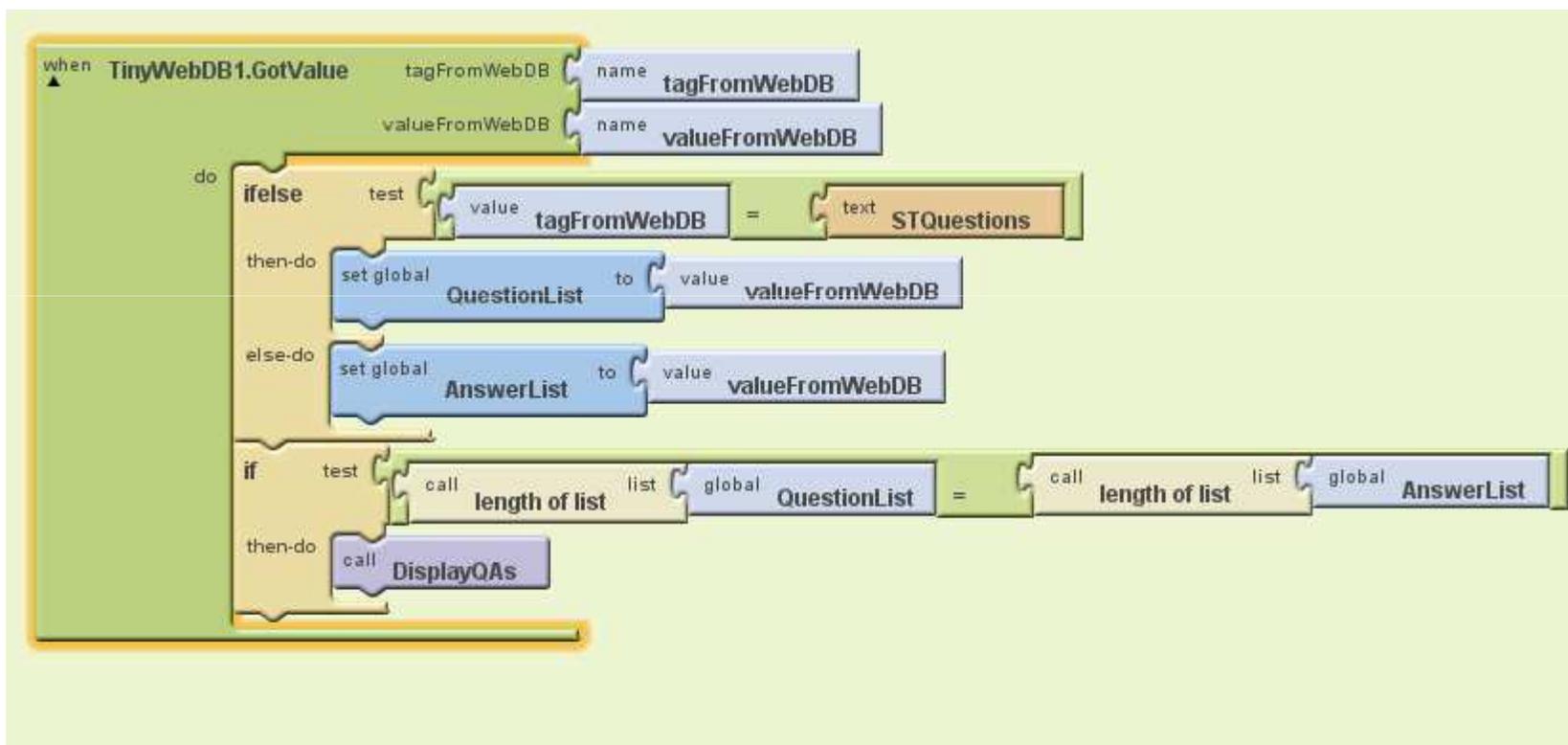
Make Quiz – Blocks Editor (1)

44



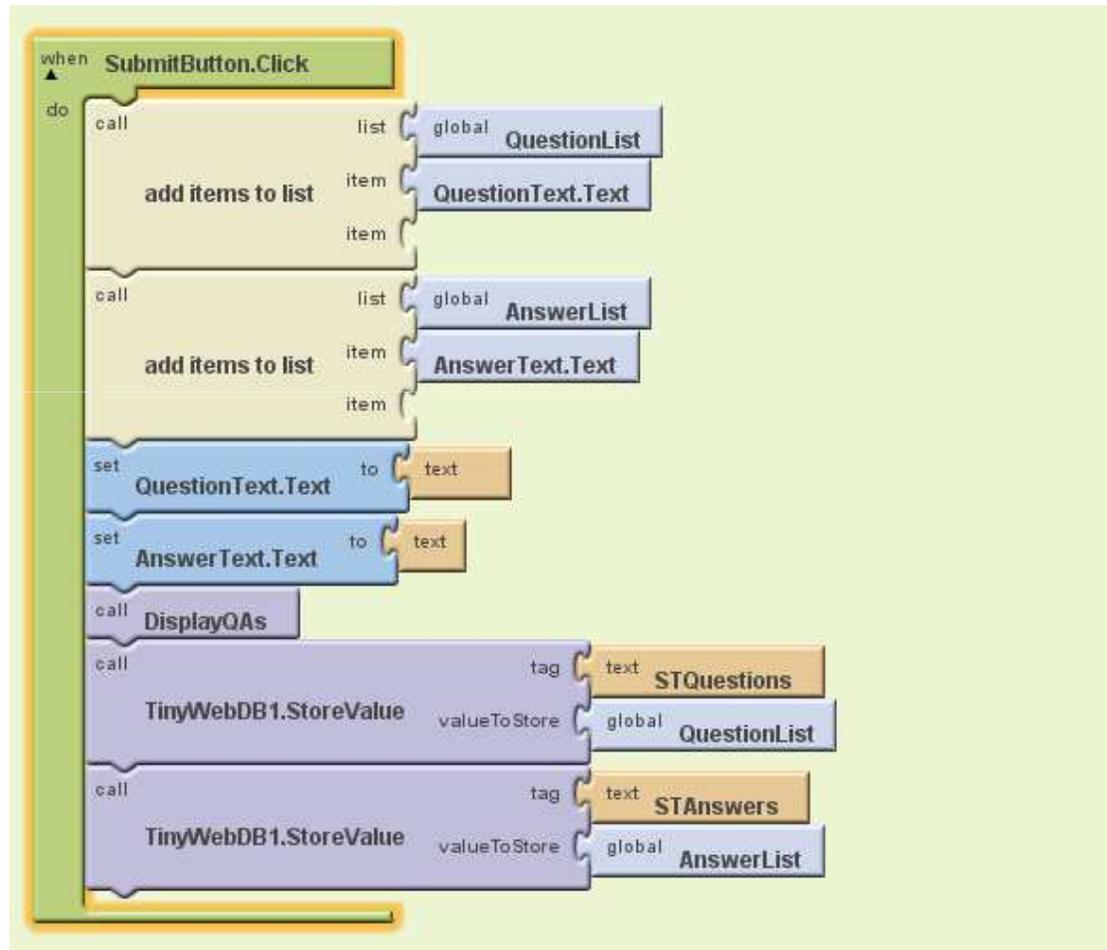
Make Quiz – Blocks Editor (2)

45



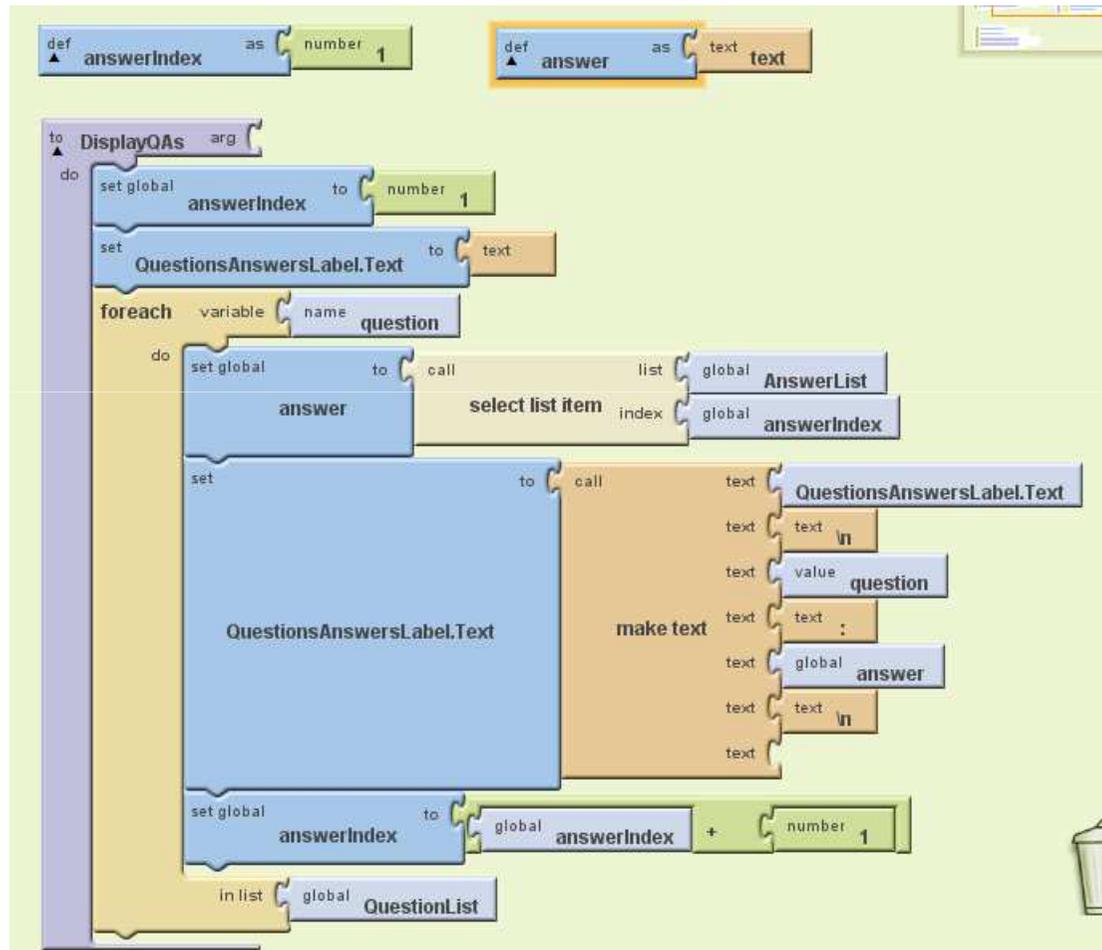
Make Quiz – Blocks Editor (3)

46



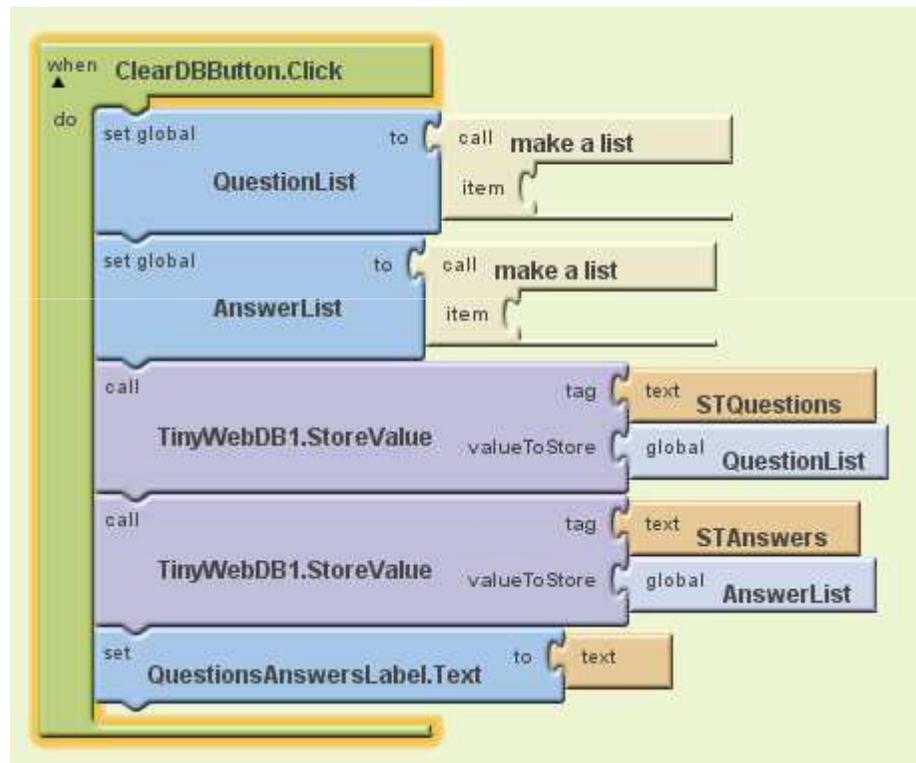
Make Quiz – Blocks Editor (4)

47



Make Quiz – Blocks Editor (5)

48



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Take Quiz

Take Quiz

50

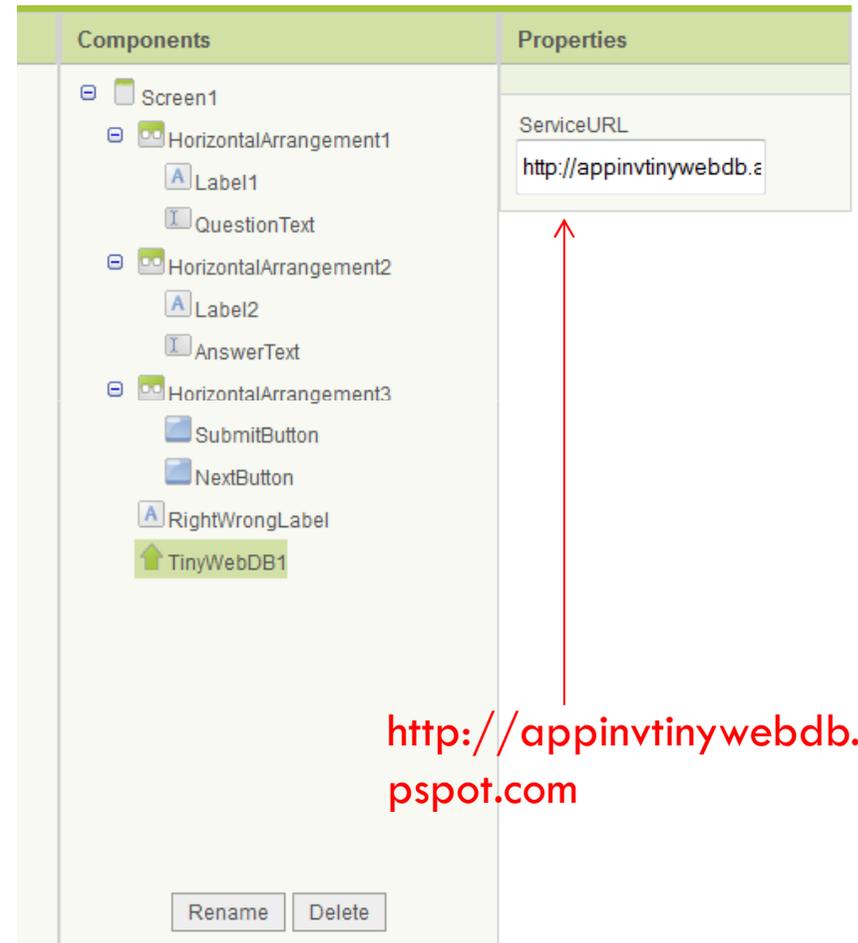
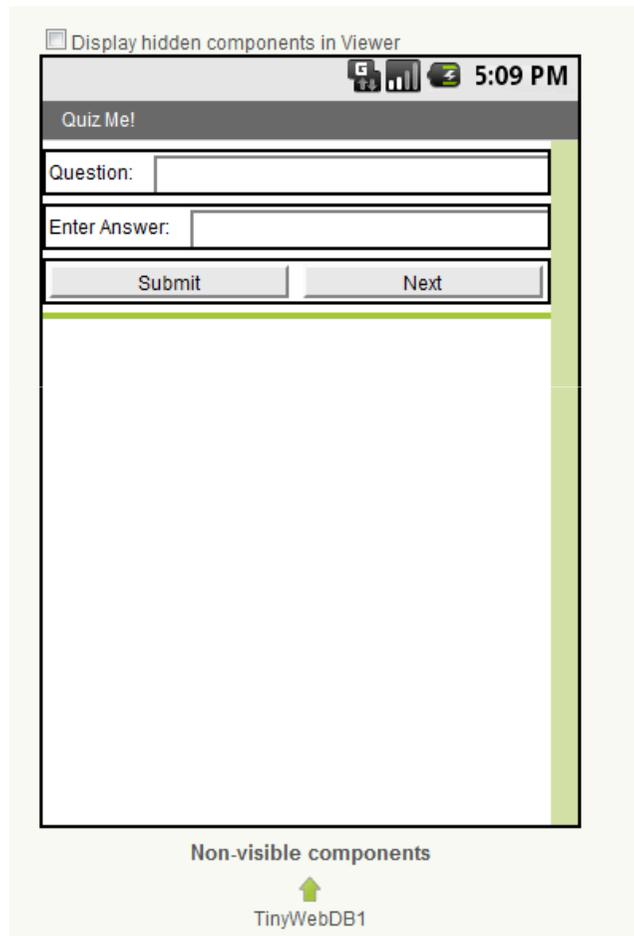
Πηγές

Emulator



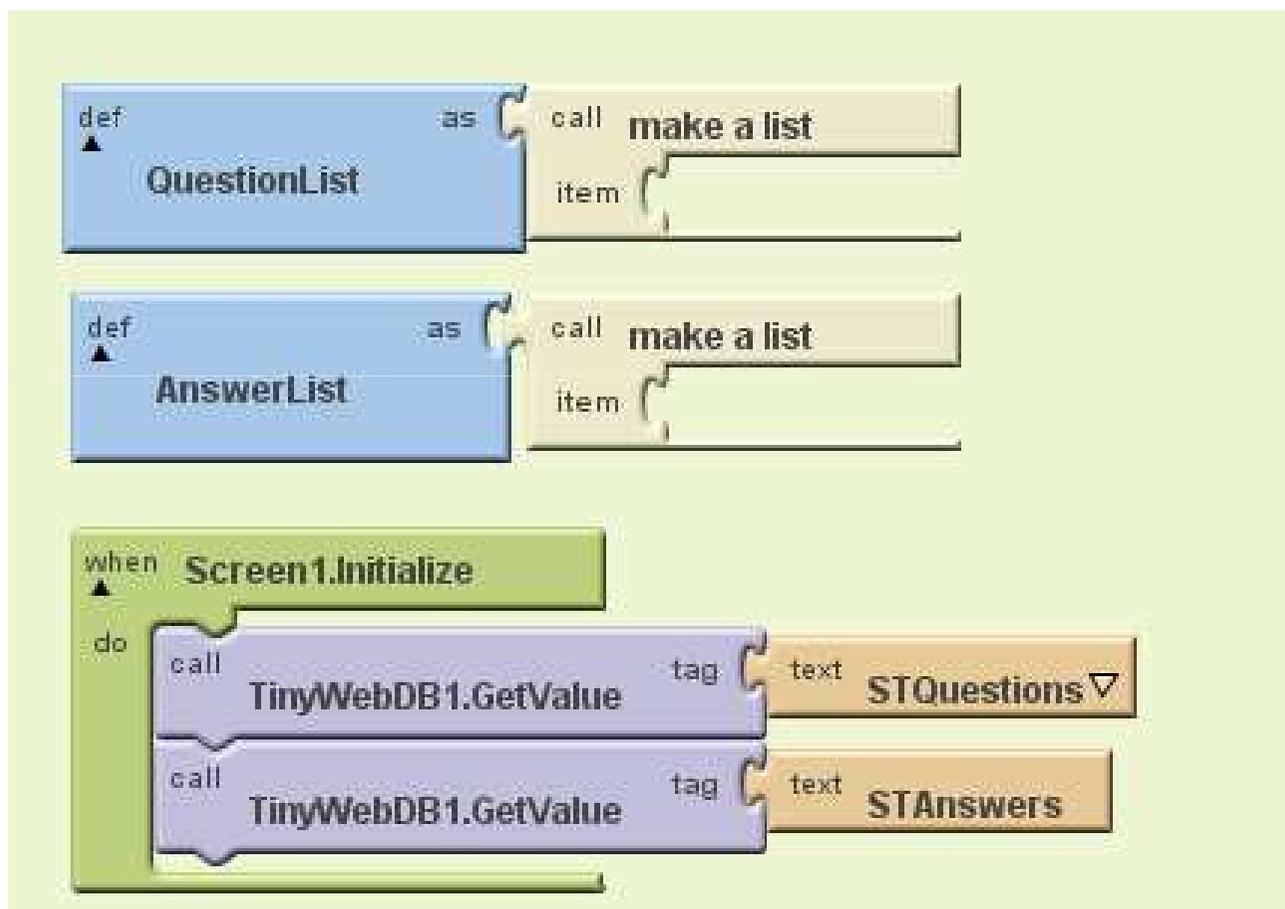
Take Quiz – Component Designer

51



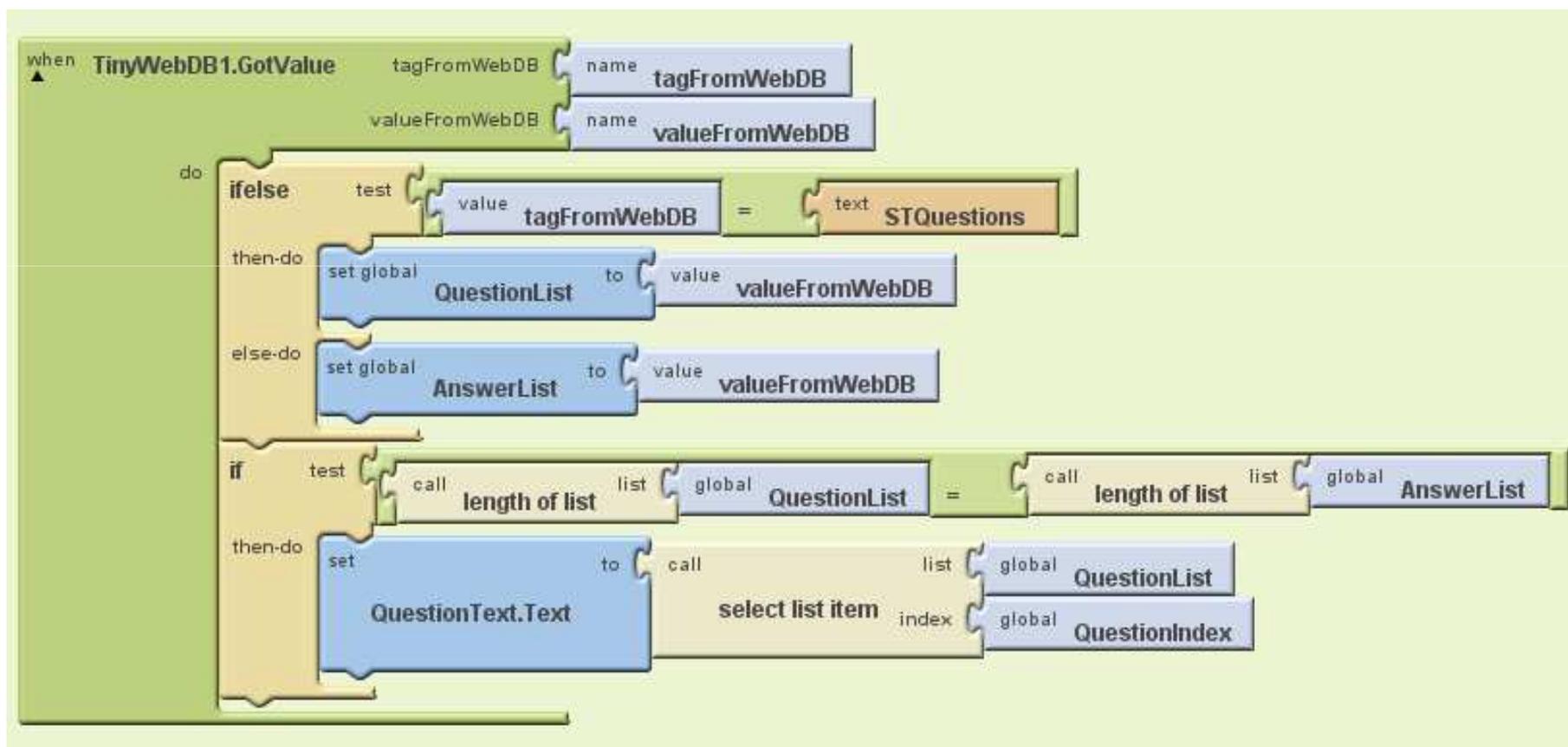
Take Quiz – Blocks Editor (1)

52



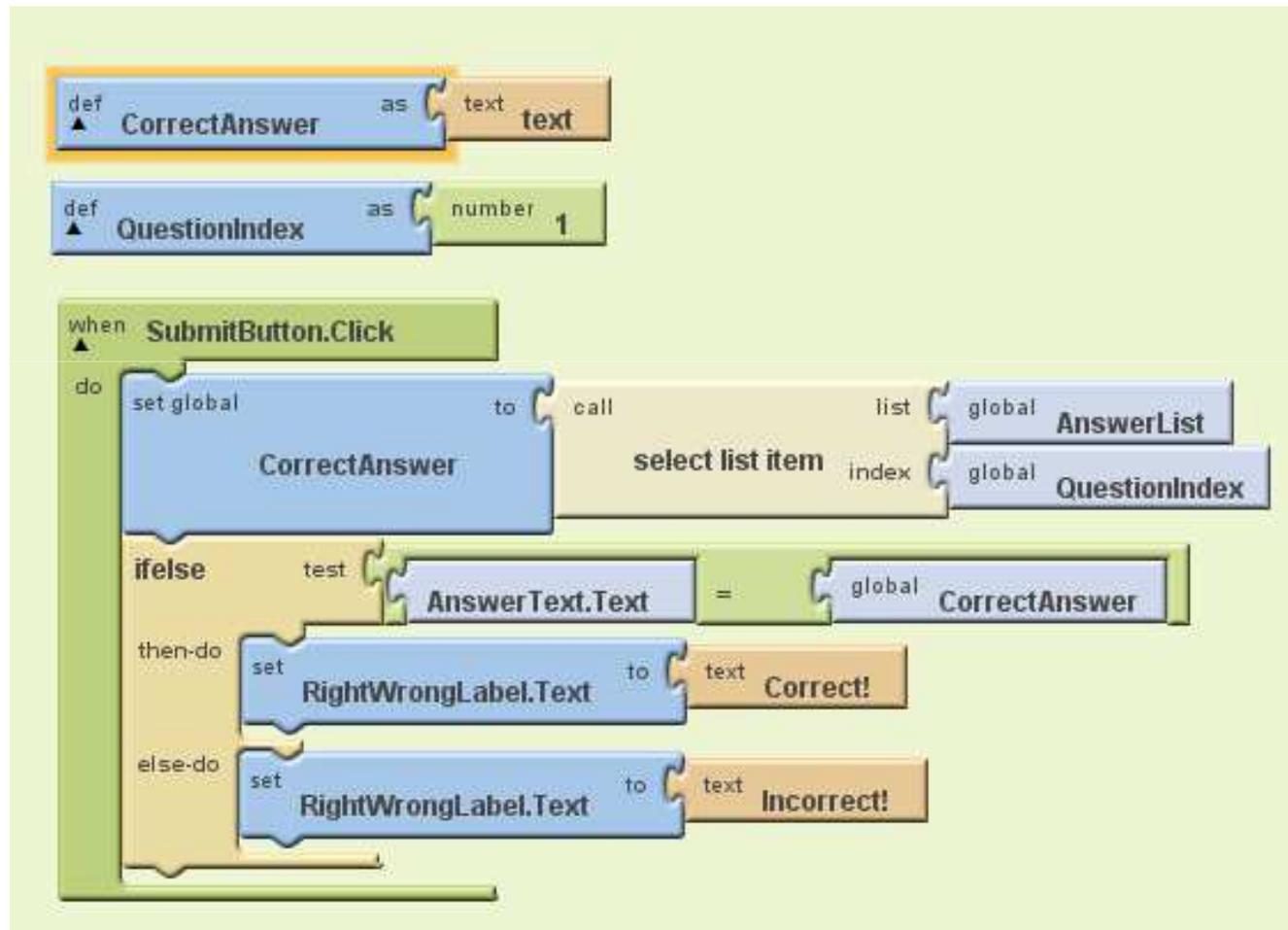
Take Quiz – Blocks Editor (2)

53



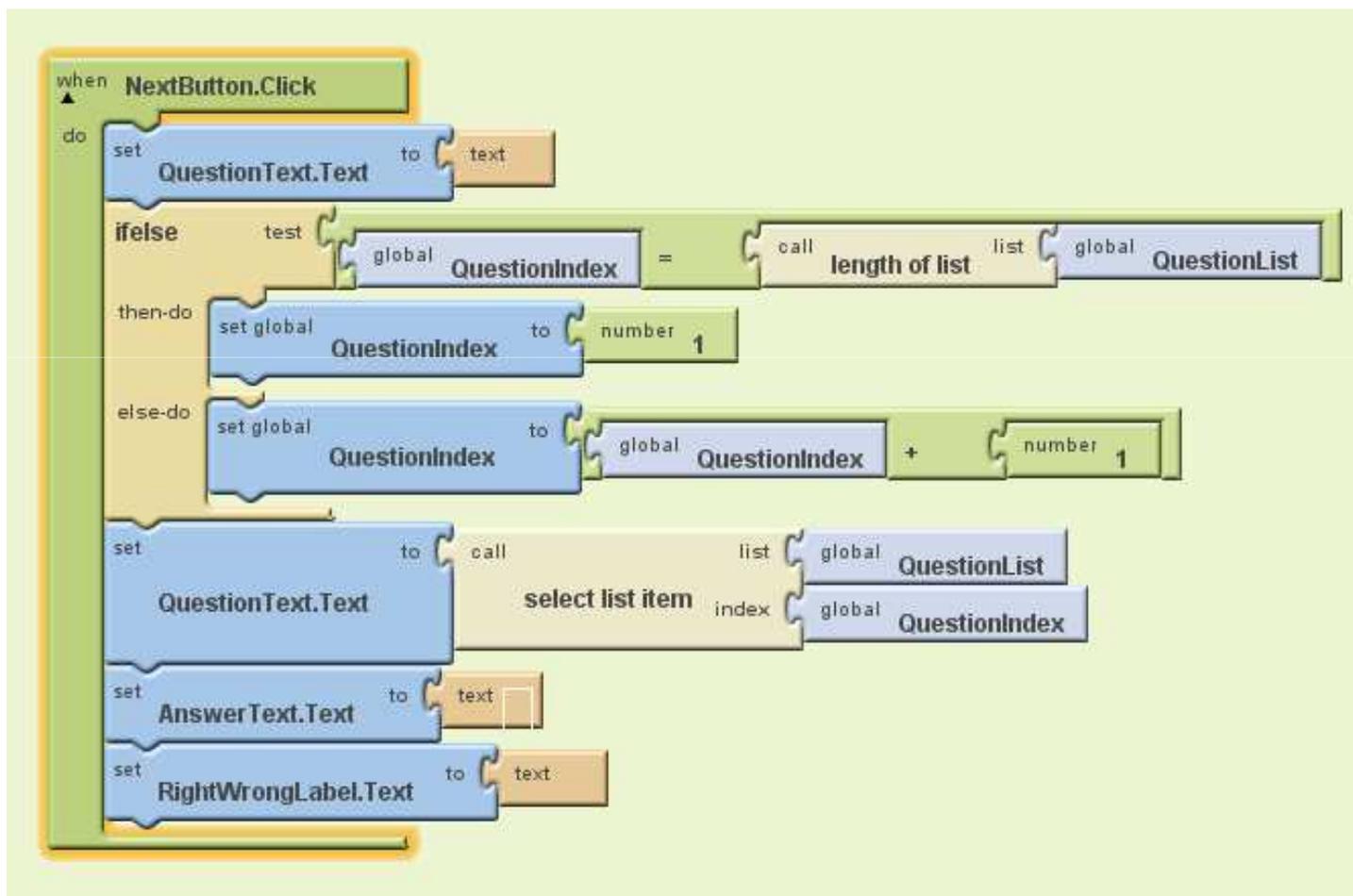
Take Quiz – Blocks Editor (3)

54



Take Quiz – Blocks Editor (4)

55



Άλλες Πηγές

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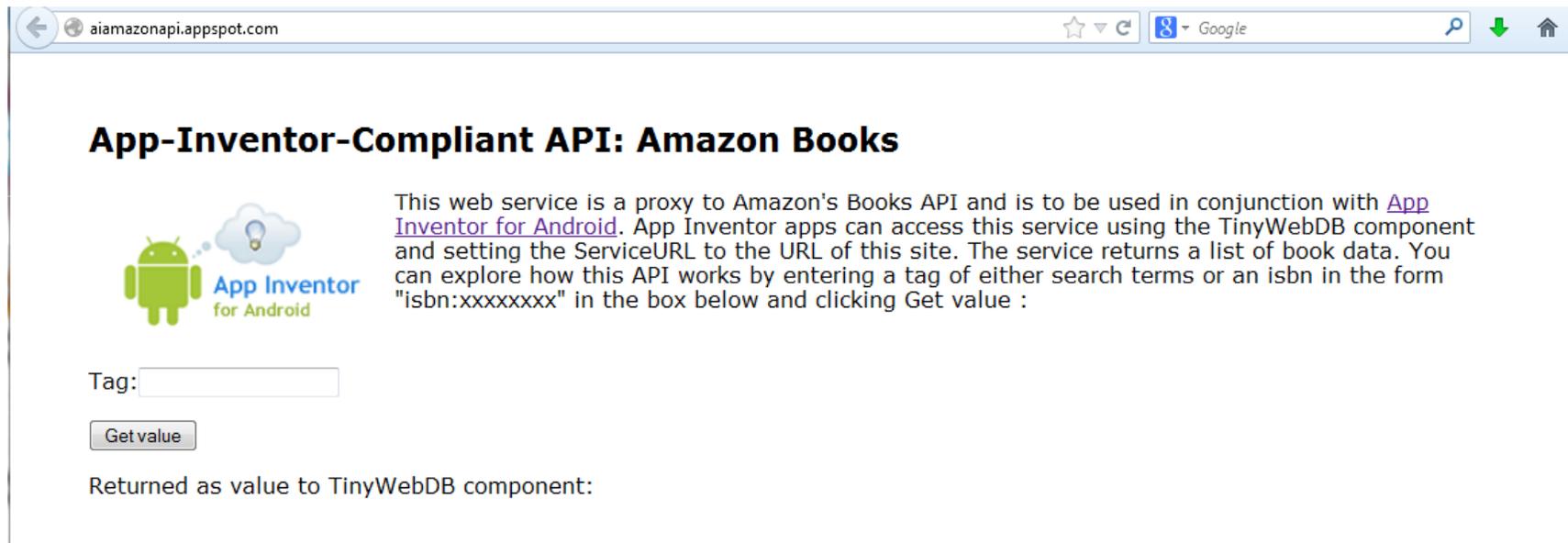
- <http://www.mm.cs.sunysb.edu/391/lectures/AppInventor/AIQuiz/AppInventorQuiz.html>

57

Amazon in the BookStore

Web Service <http://aiamazonapi.appspot.com> που συνεργάζεται με App Inventor και επιστρέφει αποτελέσματα στο TinyWebDB

58



App-Inventor-Compliant API: Amazon Books

 This web service is a proxy to Amazon's Books API and is to be used in conjunction with [App Inventor for Android](#). App Inventor apps can access this service using the TinyWebDB component and setting the ServiceURL to the URL of this site. The service returns a list of book data. You can explore how this API works by entering a tag of either search terms or an isbn in the form "isbn:xxxxxxx" in the box below and clicking Get value :

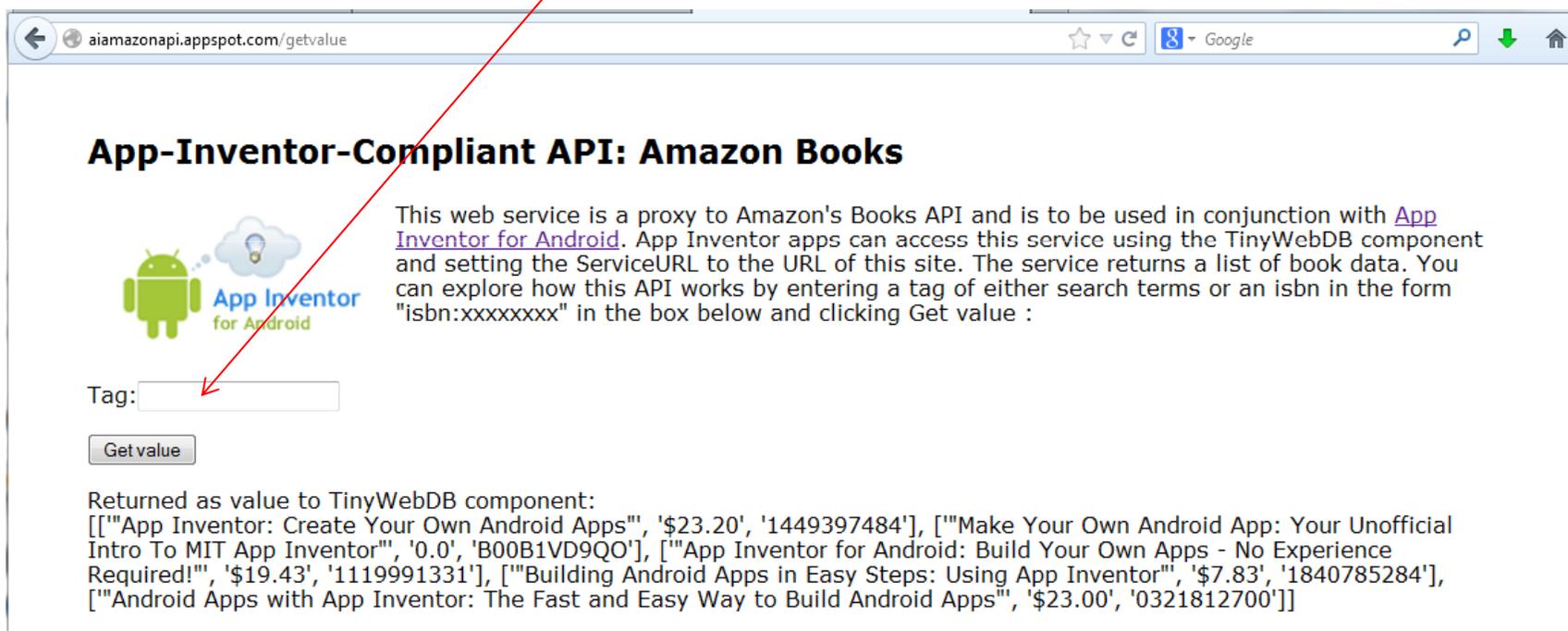
Tag:

Returned as value to TinyWebDB component:

Ερώτηση με βάση τον τίτλο

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app inventor



App-Inventor-Compliant API: Amazon Books

This web service is a proxy to Amazon's Books API and is to be used in conjunction with [App Inventor for Android](#). App Inventor apps can access this service using the TinyWebDB component and setting the ServiceURL to the URL of this site. The service returns a list of book data. You can explore how this API works by entering a tag of either search terms or an isbn in the form "isbn:xxxxxxx" in the box below and clicking Get value :

Tag:

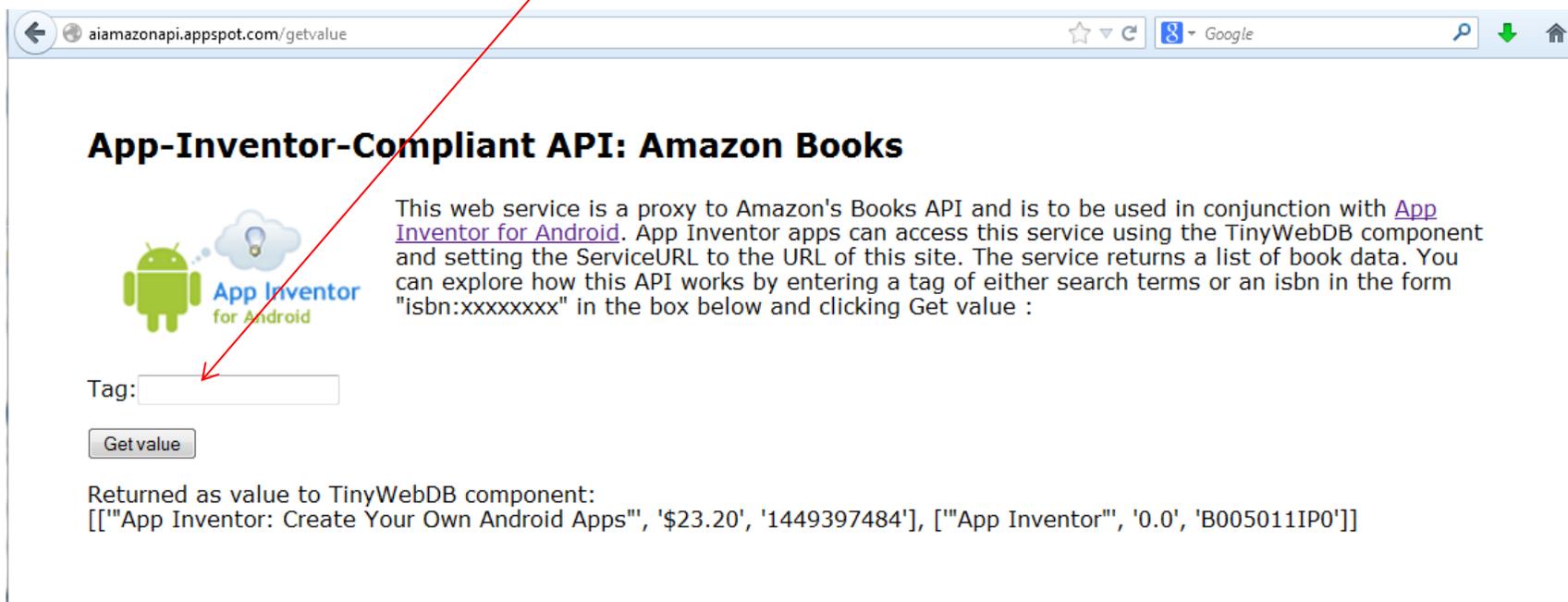
Get value

Returned as value to TinyWebDB component:
[[["App Inventor: Create Your Own Android Apps", '\$23.20', '1449397484'], ["Make Your Own Android App: Your Unofficial Intro To MIT App Inventor", '0.0', 'B00B1VD9QO'], ["App Inventor for Android: Build Your Own Apps - No Experience Required!", '\$19.43', '1119991331'], ["Building Android Apps in Easy Steps: Using App Inventor", '\$7.83', '1840785284'], ["Android Apps with App Inventor: The Fast and Easy Way to Build Android Apps", '\$23.00', '0321812700']]]

Ερώτηση με βάση το isbn

60

isbn:1449397484



App-Inventor-Compliant API: Amazon Books

 This web service is a proxy to Amazon's Books API and is to be used in conjunction with [App Inventor for Android](#). App Inventor apps can access this service using the TinyWebDB component and setting the ServiceURL to the URL of this site. The service returns a list of book data. You can explore how this API works by entering a tag of either search terms or an isbn in the form "isbn:xxxxxxx" in the box below and clicking Get value :

Tag:

Returned as value to TinyWebDB component:
[[{"App Inventor: Create Your Own Android Apps", '\$23.20', '1449397484'}, [{"App Inventor", '0.0', 'B005011IP0'}]]

Amazon in the BookStore

61

Πηγές

- amazon.pdf
- AmazonintheBookstore.zip
- AmazonintheBookstore.apk

Emulator



Amazon in the BookStore – Component Designer

62

The screenshot shows the App Inventor Component Designer interface. On the left is a preview of the mobile application titled "Amazon in the BookStore". The app has a search bar at the top, three buttons: "Search by Keyword", "Search by ISBN", and "Scan", and a "Search Results" area below. On the right is the Component Designer panel, which is divided into two sections: "Components" and "Properties".

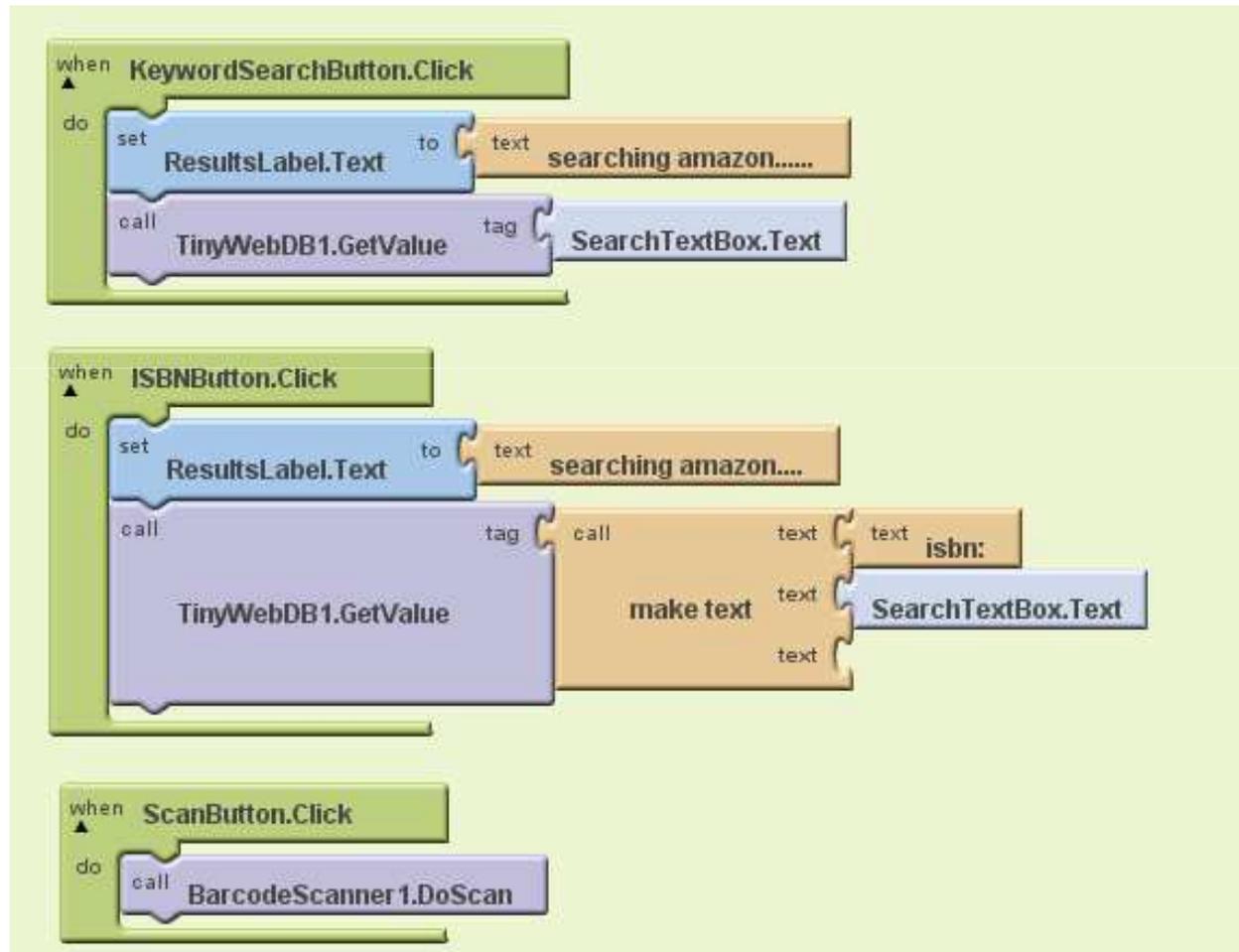
The "Components" section shows a tree view of the app's components. The "KeywordSearchButton" component is highlighted in green. A red arrow points from the URL <http://aiamazonapi.appspot.com/> to the "TinyWebDB1" component in the tree. Below the tree are "Rename" and "Delete" buttons.

The "Properties" section shows the configuration for the selected "KeywordSearchButton" component. The properties listed are:

- BackgroundColor: Default
- Enabled:
- FontBold:
- FontItalic:
- FontSize: 14.0
- FontTypeface: default
- Image: None...
- Shape: default
- Text: Search by Keyword
- TextAlignment: center
- TextColor: Default

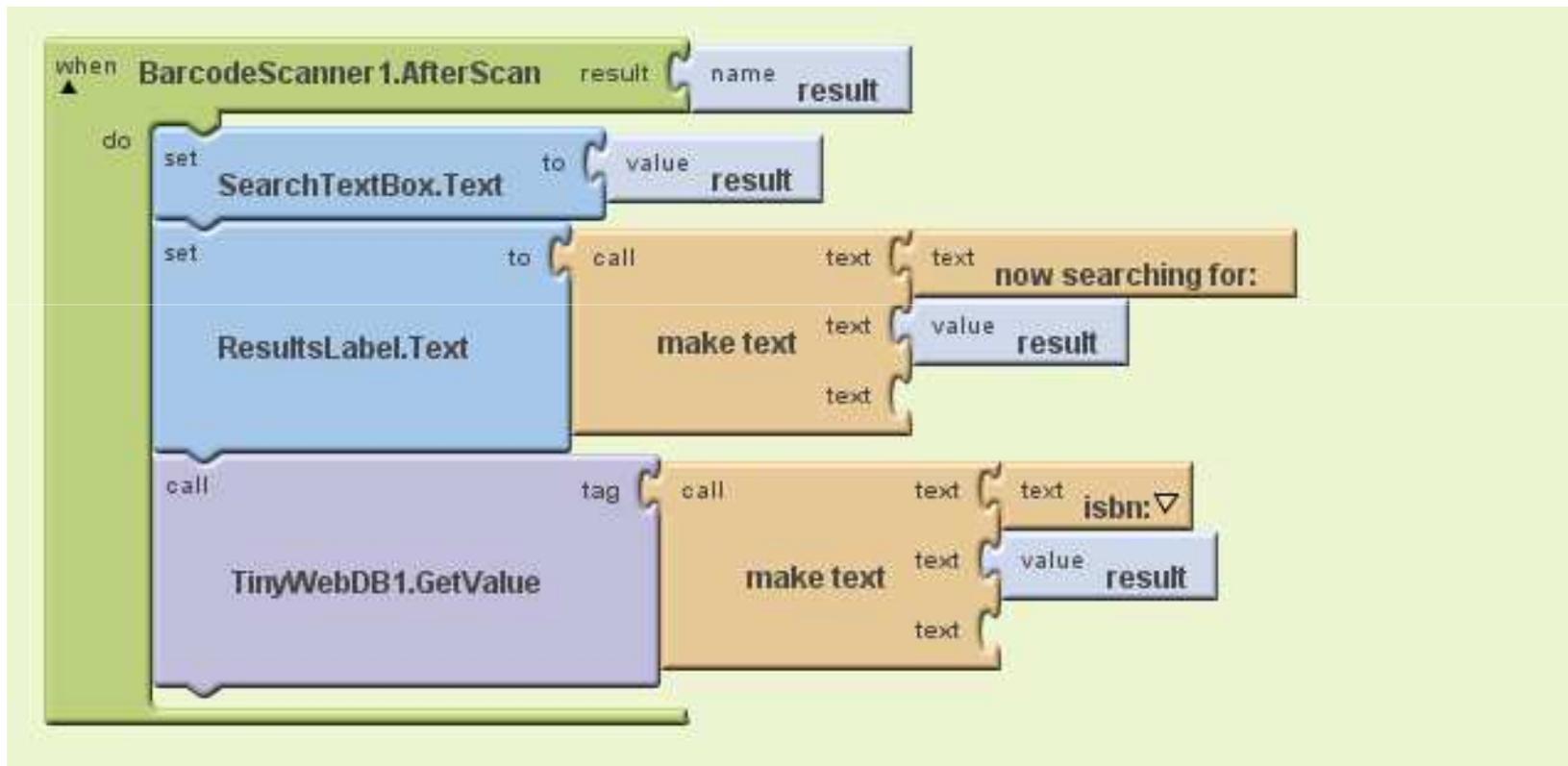
Amazon in the BookStore – Blocks Editor (1)

63



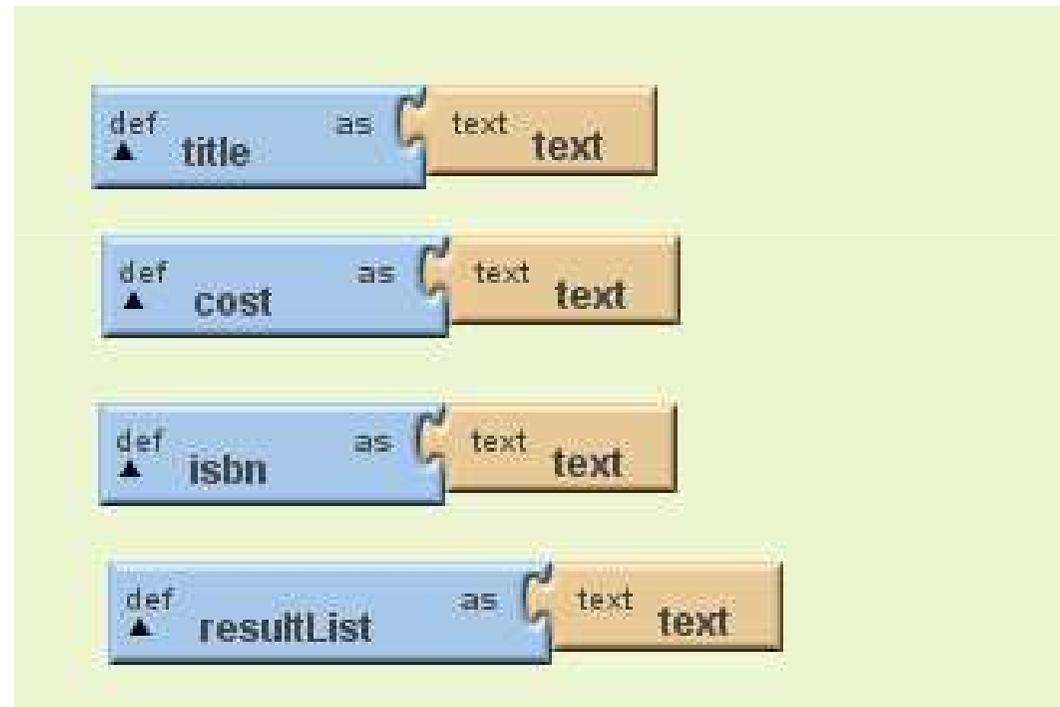
Amazon in the BookStore – Blocks Editor (2)

64



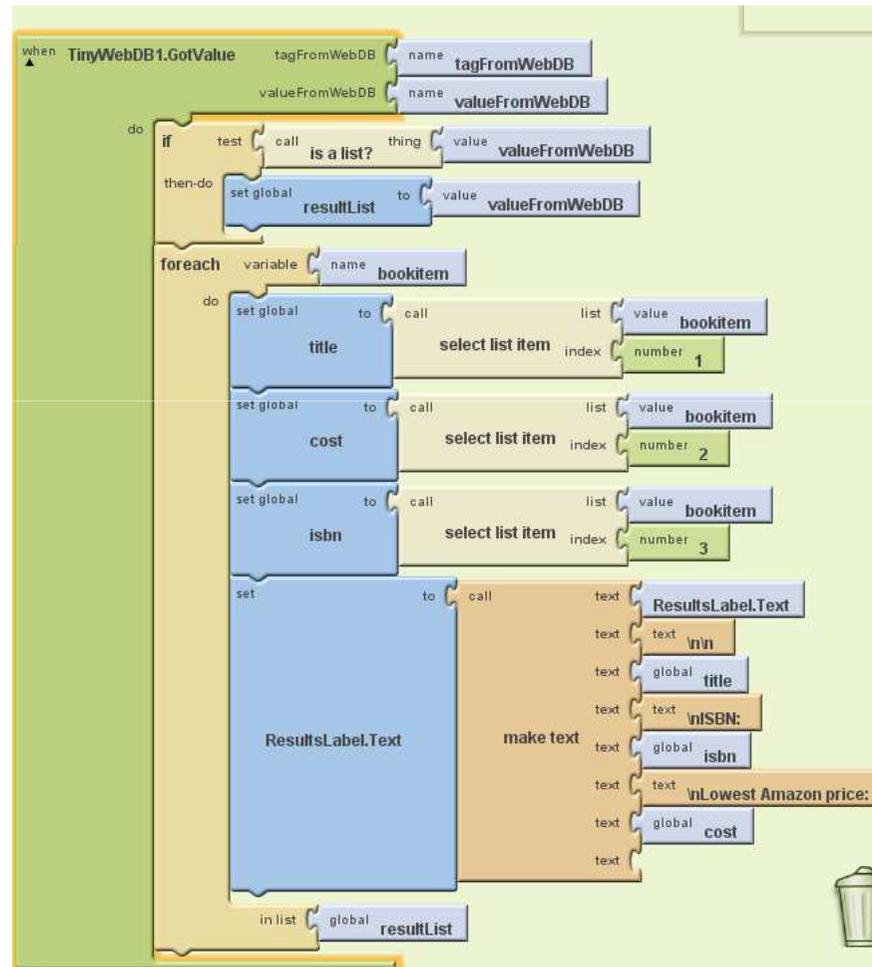
Amazon in the BookStore – Blocks Editor (3)

65



Amazon in the BookStore – Blocks Editor (4)

66



Website Viewer στο App Inventor

Τι θα μάθω:

- Webviewer Component (CoolWebViewer)

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CoolWebView

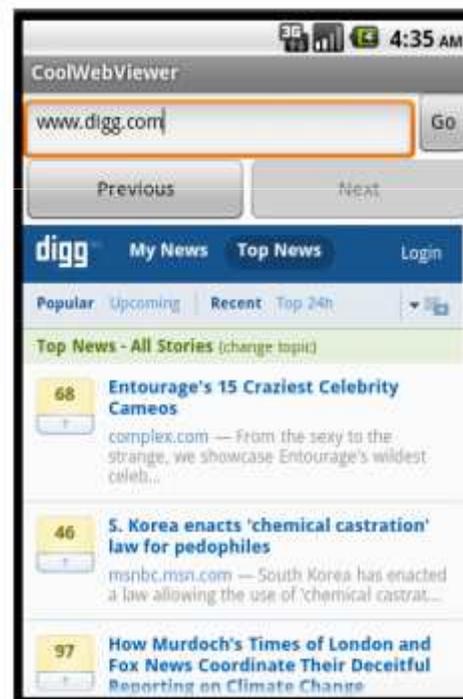
CoolWebView

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Πηγές

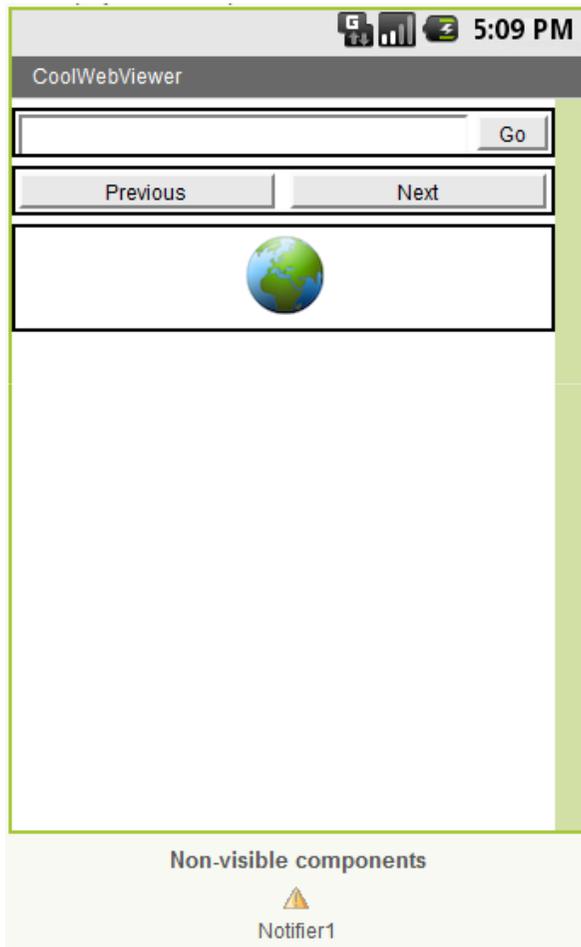
- <http://www.appinventorblocks.com/appinventor-tutorials-tips/appinventor-websiteloader-webviewer>
- CoolWebviewer.zip
- CoolWebviewer.apk

Emulator



CoolWebViewer – Component Designer

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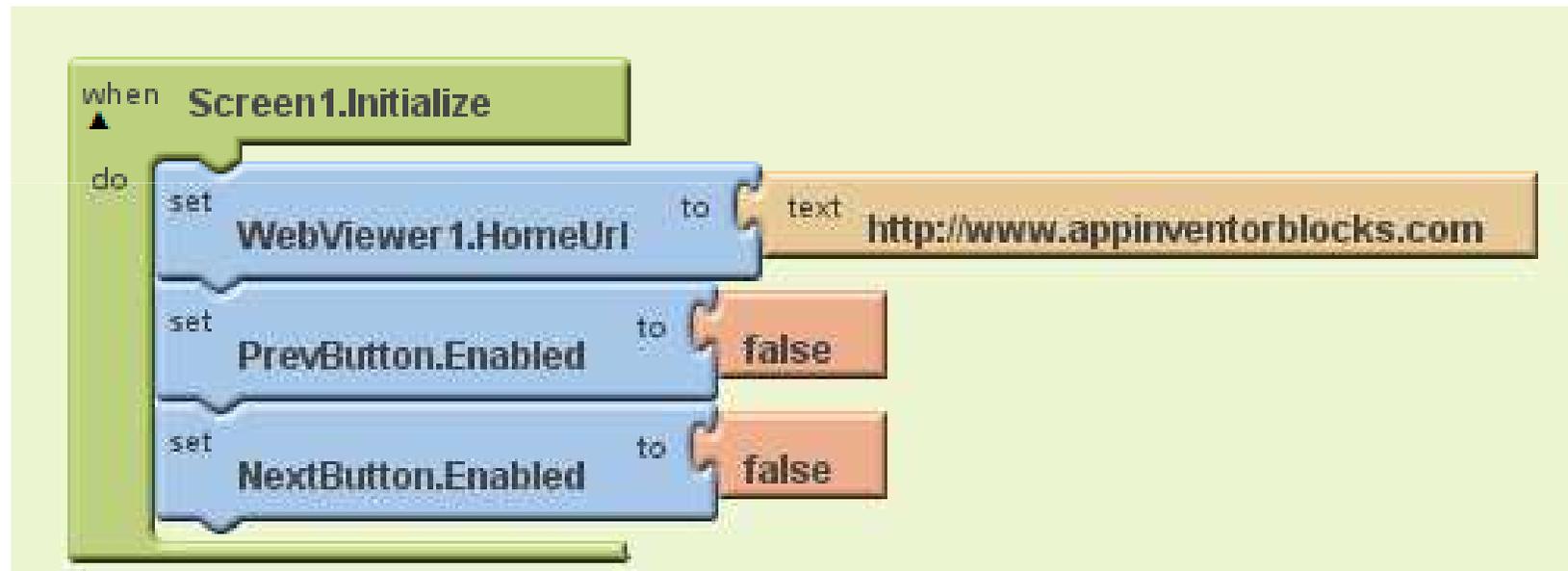
Components	Properties
Screen1	
HorizontalArrangement1	AlignHorizontal: Left
URLTextBox	AlignVertical: Top
GoButton	BackgroundColor: White
HorizontalArrangement2	BackgroundImage: None...
PrevButton	CloseScreenAnimation: Default
NextButton	Icon: None...
WebView1	OpenScreenAnimation: Default
Notifier1	ScreenOrientation: Unspecified
	Scrollable: <input checked="" type="checkbox"/>
	Title: CoolWebViewer
	VersionCode: 1

Rename Delete

Media

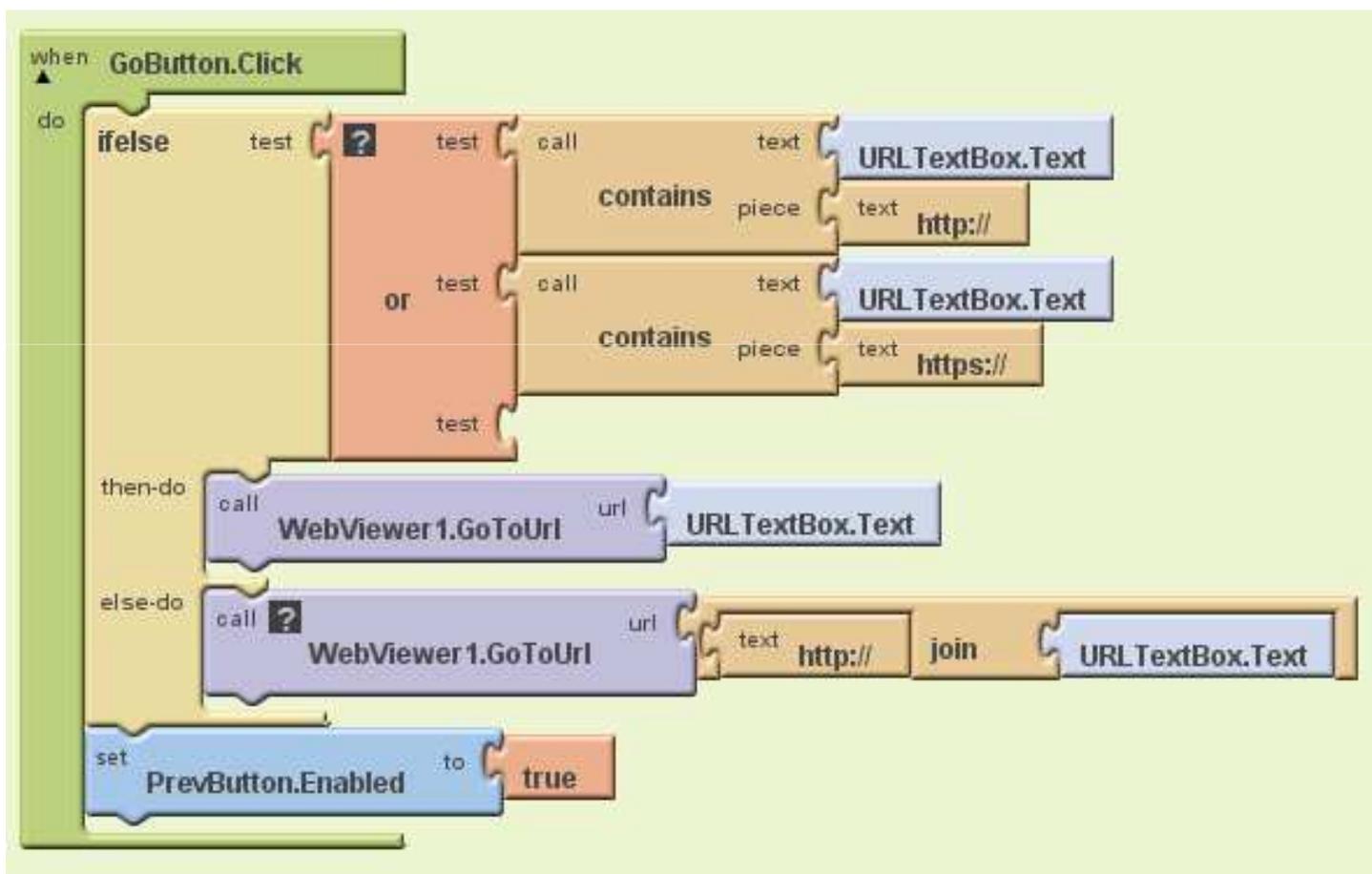
CoolWebView – Blocks Editor (1)

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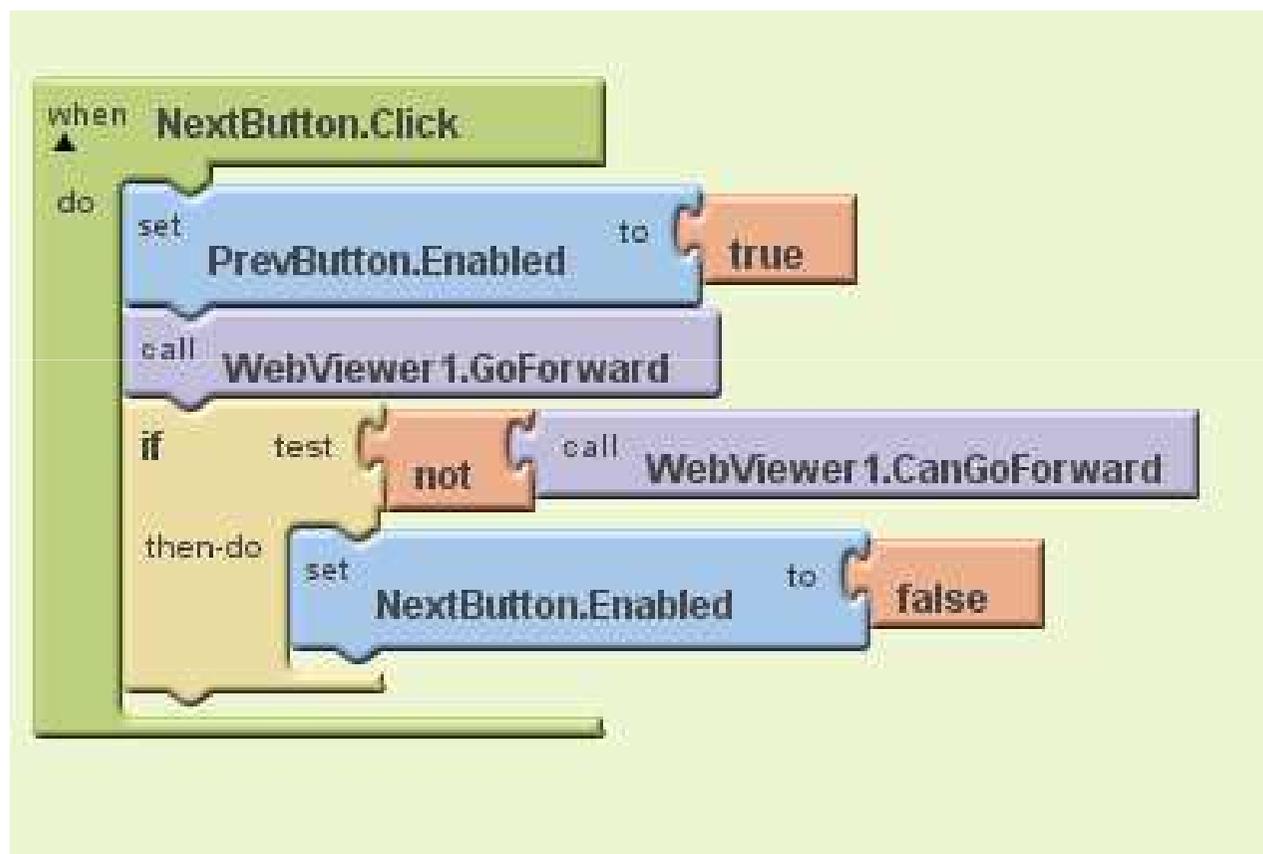
CoolWebViewer – Blocks Editor (2)

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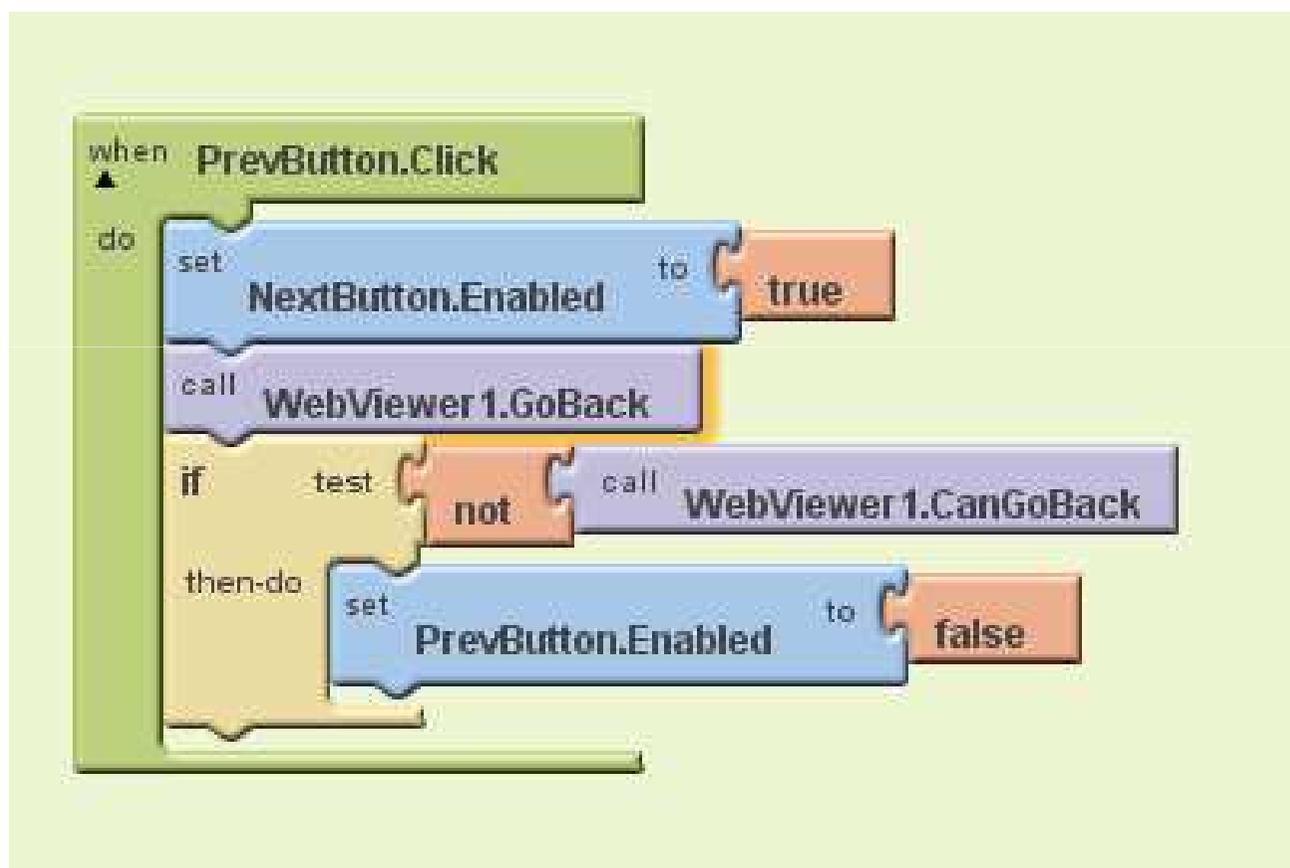
CoolWebView – Blocks Editor (3)

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CoolWebView – Blocks Editor (4)

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Ευχαριστώ

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