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	μ μ QR code Smartphone (Development of a smartphone application that creates products' QR code and displays information about them)
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Ημερομηνία Παράδοσης **Οκτώβριος 2015**

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QR code

Smartphone

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ProductBook

1) smartphone

2)

3) upload site (site URL.

4) QR code

QR code

ABSTRACT

Development of a smartphone application that creates products' QR code and displays information about them

The development of an application for mobiles, which is called ProductBook and serves suppliers. The particular application gives them the opportunity to present and promote their products. It includes the following steps:

- 1) the supplier will take photo the product with her/his smartphone and s/he will upload the particular photo to the application.
- 2) the supplier will fill in an appropriate form giving details-information about the product.
- 3) the application will upload these data to a site (the application will create a site for each product that describes it) for which it will determine a unique URL.
- 4) the application will automatically generate a QR code for the product and it will return it as an image to the producer (who can use it e.g. for printing).

Then any customer will have the opportunity to be informed about the product and order it, downloading a simple application that reads QR code, on her/his mobile phone. In particular, the customer will photograph the QR code of the product and then the application will "open" the product's site. Therefore, the customer will be able to identify the product, to be informed about it, to contact with the supplier of the product and order it.

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mobile μ μ .. , videos,
interactivity, ebooks, ... μ
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smartphone μ μ android, ios,
windows phone 7 8, BlackBerry 10 mazon Fire OS.

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Android Vs IOS

Android

Android is an open-source operating system developed by Google. It is based on the Linux kernel and is used by a wide range of devices, including smartphones, tablets, and smart TVs. Android is known for its flexibility and customization options, allowing users to personalize their devices in various ways. Some of the key features of Android include:

- Open Source:** Android is an open-source operating system, meaning that its source code is available to anyone who wants to use or modify it. This has led to a large ecosystem of developers and manufacturers.
- Customization:** Android allows users to customize their devices in many ways, including changing the home screen, app drawer, and notification shade. Users can also install custom launchers and ROMs to further personalize their devices.
- App Store:** The Google Play Store is the primary source for Android apps, offering a vast selection of free and paid applications.
- Fragmentation:** One of the challenges of Android is fragmentation, where different manufacturers use different versions of the operating system and hardware configurations. This can lead to inconsistent user experiences and compatibility issues.
- Security:** Android has a reputation for being less secure than iOS, primarily due to its open nature and the prevalence of malware. However, Google has implemented various security measures to improve the system's safety.
- Rooting:** Rooting is a process that grants users administrative access to their Android devices, allowing them to install custom ROMs, remove bloatware, and optimize performance. However, rooting can void warranties and increase the risk of security vulnerabilities.

iOS

iOS is a mobile operating system developed by Apple. It is designed specifically for Apple's mobile devices, including the iPhone and iPad. iOS is known for its stability, security, and high-quality user interface. Some of the key features of iOS include:

- Stability:** iOS is renowned for its stability and reliability, with minimal crashes and downtime.
- Security:** iOS has a strong focus on security, with features like App Store review, sandboxing, and regular security updates.
- High-Quality UI:** iOS has a clean, intuitive user interface that is highly regarded for its design and usability.
- App Store:** The App Store is the primary source for iOS apps, offering a curated selection of high-quality applications.
- Performance:** iOS is known for its smooth performance and fast response times, even on older devices.
- Integration:** iOS is tightly integrated with other Apple products and services, such as iCloud, AirDrop, and Apple Pay.

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Android

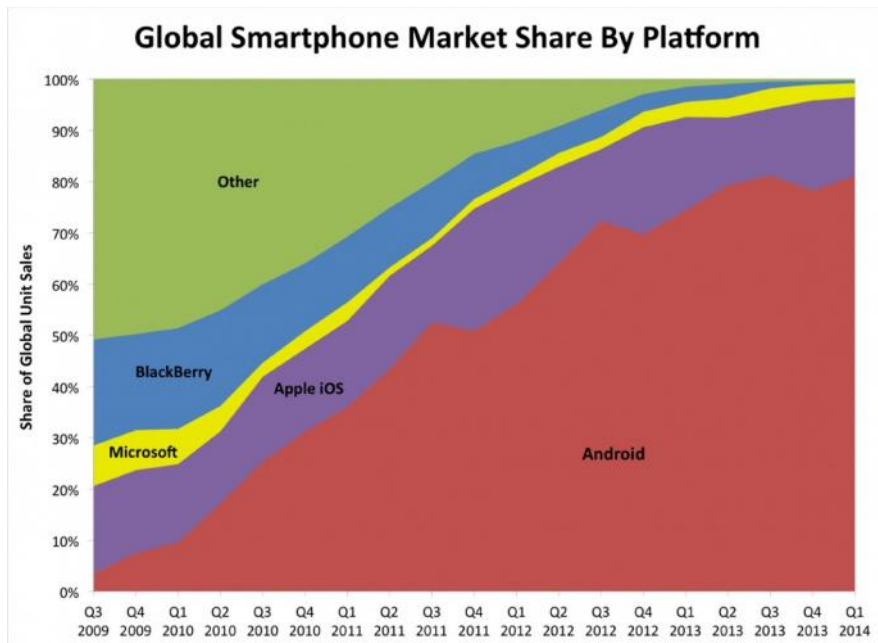
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iOS

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2.1 Html5

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HTML .

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- μ μ HTML5 & friends μ HTML5.
- HTML5 , μ μ
- Semantics: μ
- Connectivity: μ μ server .
- Offline and storage: μ on the client-side μ offline .
- Multimedia : Open Web.
- 2D/3D graphics and effects: μ
- Performance and integration: μ

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 μ μ μ JavaScript, μ JavaScript
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μ Javascript μ HTML μ
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<script language = "javascript"> ..... </script>
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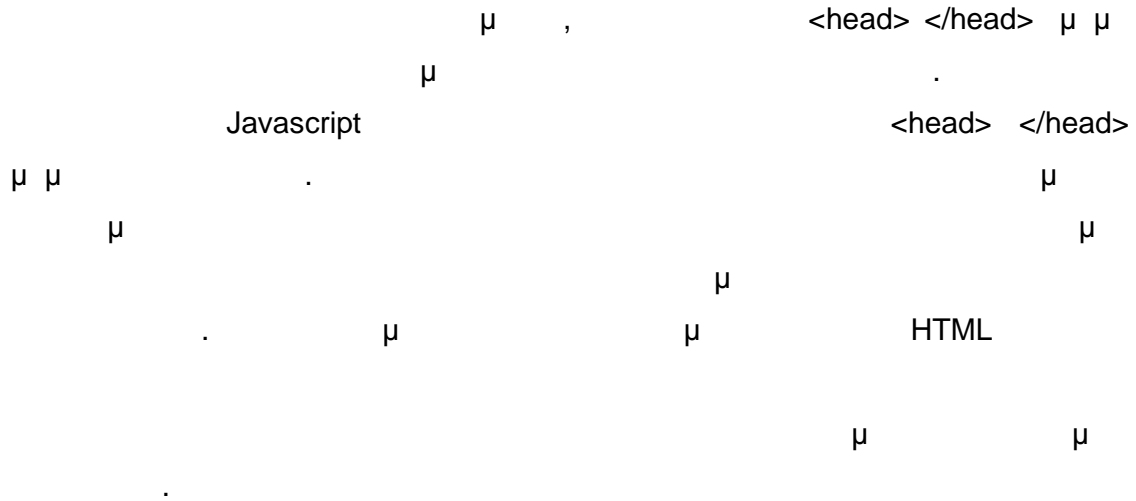
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2.4 MySql

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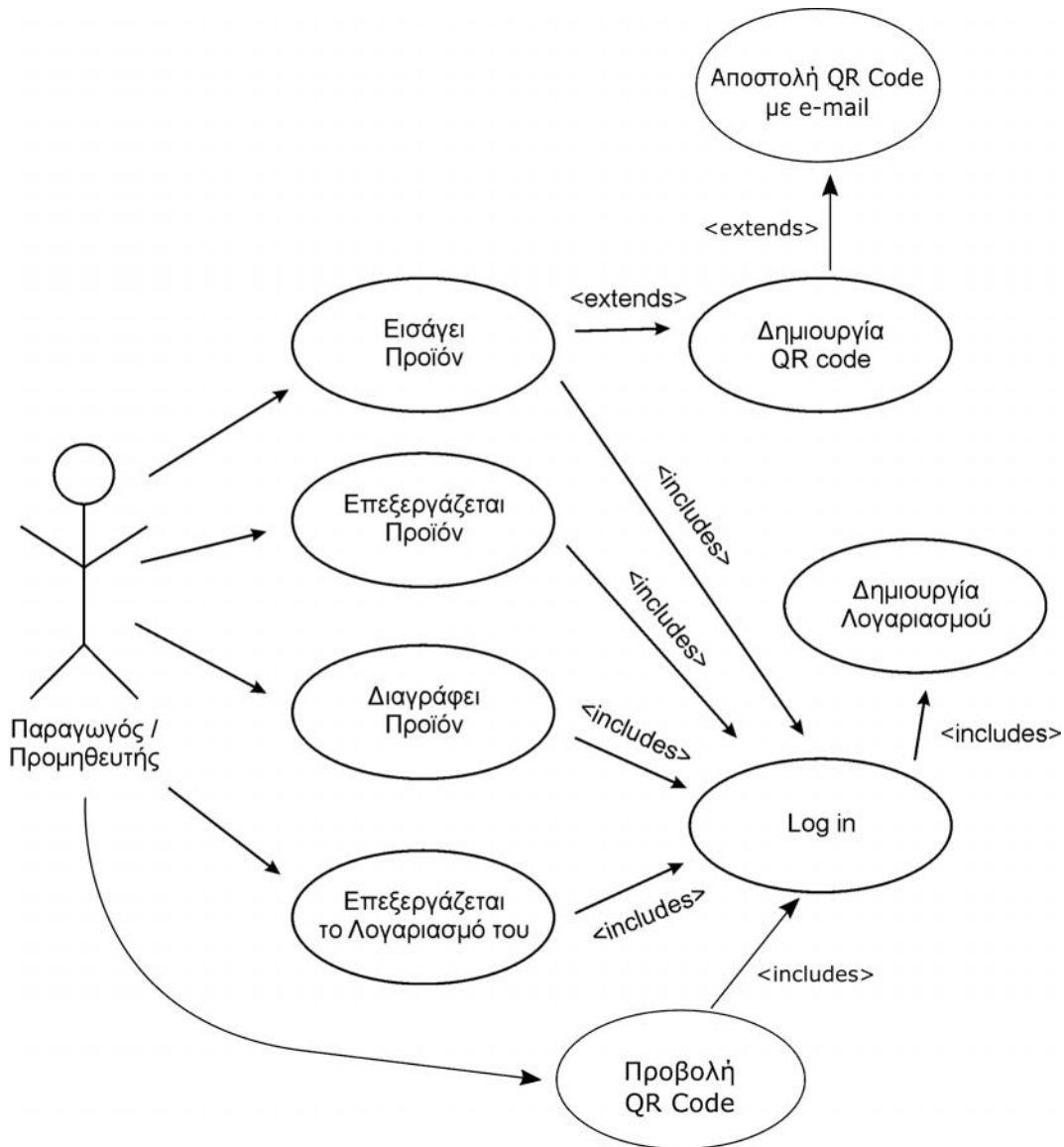
2.5 Phonegap

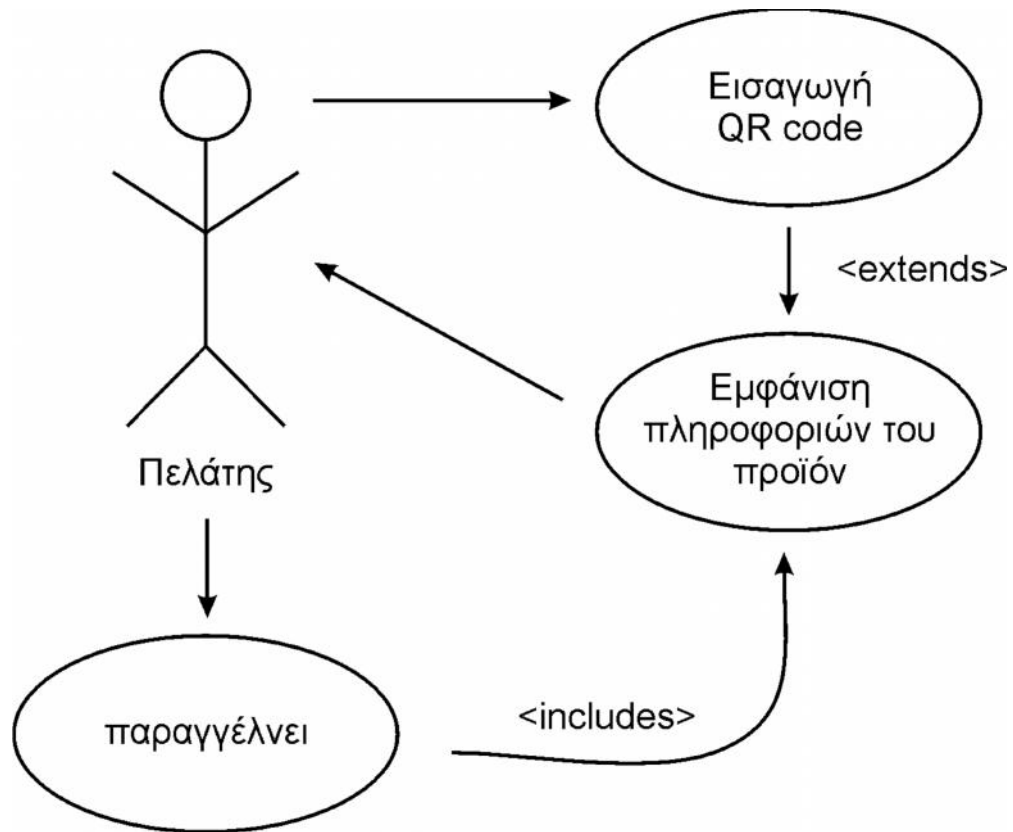
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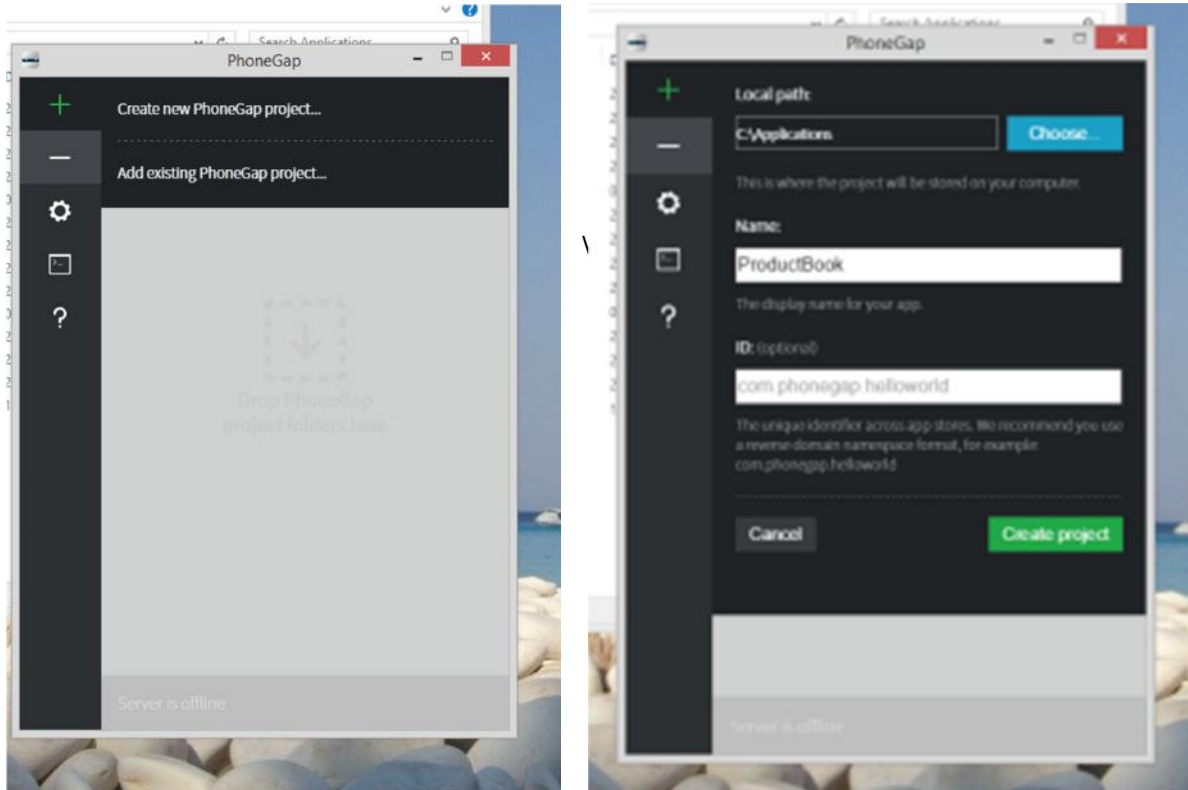
Use Case Diagrams





4. ProductBook

PhoneGap Desktop Project
 ProductBook.



phonegap . ProductBook
 www,
 html, js, css json.

apache, sql server php
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students.cs.unipi.gr/phpyouradmin/index.php?db=konchry&table=paragogos&token=7ec2708411e37c5e32faaad4d91e222

localhost > konchry > paragogos

Browse Structure SQL Search Insert Export Import Operations

#	Column	Type	Collation	Attributes	Null	Default	Extra	Action
<input type="checkbox"/>	1 AFM	int(9)			No	None		Change Drop More
<input type="checkbox"/>	2 EPONIMIA	varchar(255)	utf8_general_ci		Yes	NULL		Change Drop More
<input type="checkbox"/>	3 TEL	varchar(255)	utf8_general_ci		Yes	NULL		Change Drop More
<input type="checkbox"/>	4 ADDRESS	varchar(255)	utf8_general_ci		Yes	NULL		Change Drop More
<input type="checkbox"/>	5 EMAIL	varchar(255)	utf8_general_ci		Yes	NULL		Change Drop More
<input type="checkbox"/>	6 PSWD	varchar(255)	utf8_general_ci		No	None		Change Drop More

Check All / Uncheck All With selected: Browse Change Drop Primary Unique Index

Print view Relation view Propose table structure

students.cs.unipi.gr/phpyouradmin/index.php?db=konchry&token=82e135fd09b128103c0cb3aa0bd037

localhost > konchry > product

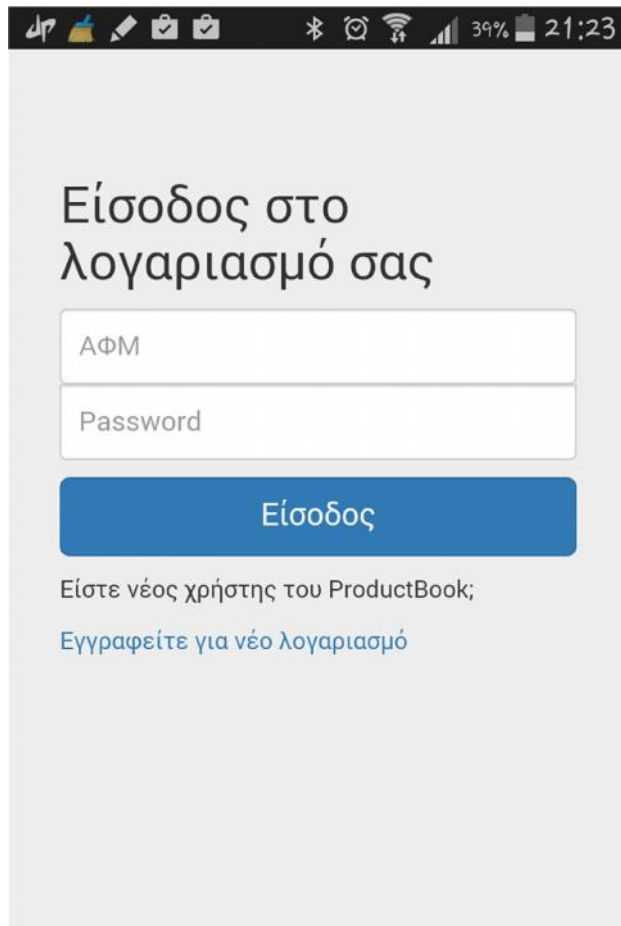
Browse Structure SQL Search Insert Export Import Operations

#	Column	Type	Collation	Attributes	Null	Default	Extra	Action
<input type="checkbox"/>	1 ID	int(11)			No	None	AUTO_INCREMENT	Change Drop More
<input type="checkbox"/>	2 NAME	varchar(255)	greek_general_ci		Yes	NULL		Change Drop More
<input type="checkbox"/>	3 PHOTO	varchar(255)	greek_general_ci		Yes	NULL		Change Drop More
<input type="checkbox"/>	4 DATE_PRODUCTION	varchar(255)	greek_general_ci		Yes	NULL		Change Drop More
<input type="checkbox"/>	5 DATE_EXPIRED	varchar(255)	greek_general_ci		Yes	NULL		Change Drop More
<input type="checkbox"/>	6 PRICE	decimal(15,2)			Yes	NULL		Change Drop More
<input type="checkbox"/>	7 INFO	longtext	greek_general_ci		Yes	NULL		Change Drop More
<input type="checkbox"/>	8 PID	int(11)			No	None		Change Drop More
<input type="checkbox"/>	9 AFM_PARAGOGOU	int(9)			No	None		Change Drop More
<input type="checkbox"/>	10 URL	varchar(255)	greek_general_ci		Yes	NULL		Change Drop More
<input type="checkbox"/>	11 QRCODE	varchar(255)	greek_general_ci		No	None		Change Drop More

4.2 μ

4.2.1 Ε – μ

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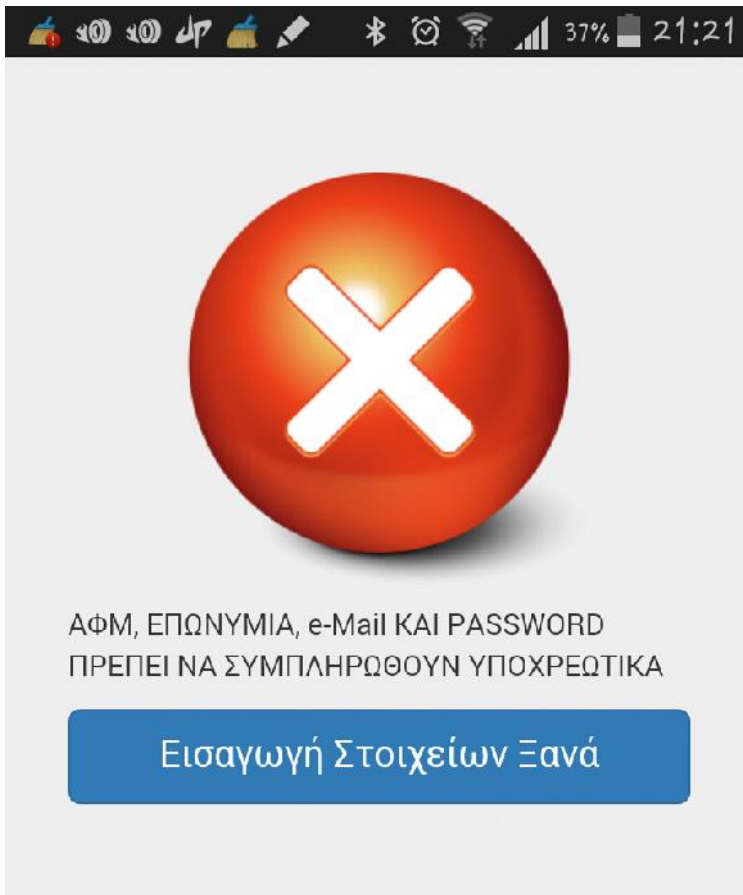
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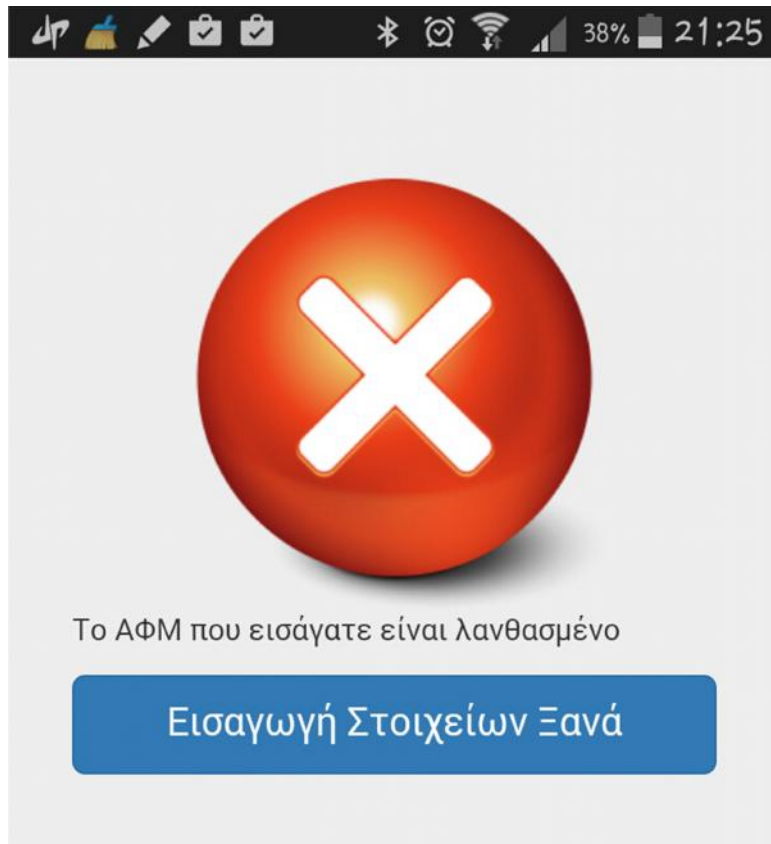
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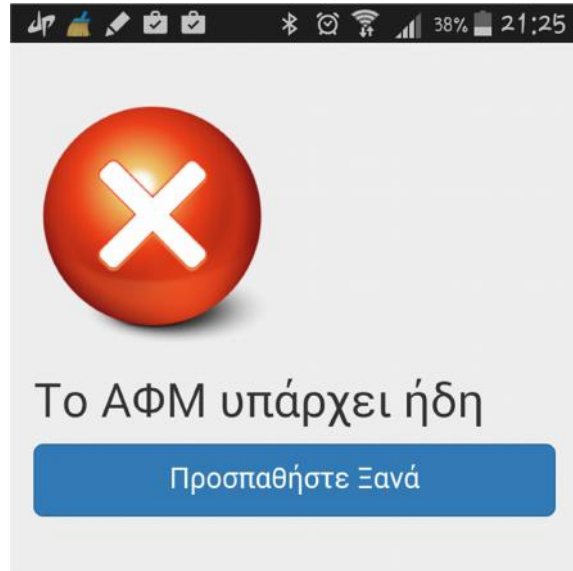


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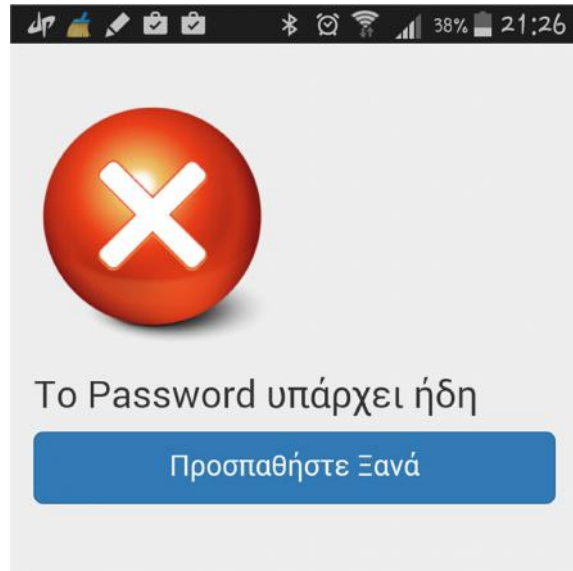


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μ μ QR code Smartphone

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Εγγραφή

554433678

ΦΡΟΥΤΕΜΠΟΡΙΚΗ ΑΕ

ΚΑΡΑΟΛΗ 4

210 5676544

frouteborikh

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Δημιουργία Λογαριασμού

Τα πεδία με * είναι υποχρεωτικά

[green checkmark icon]

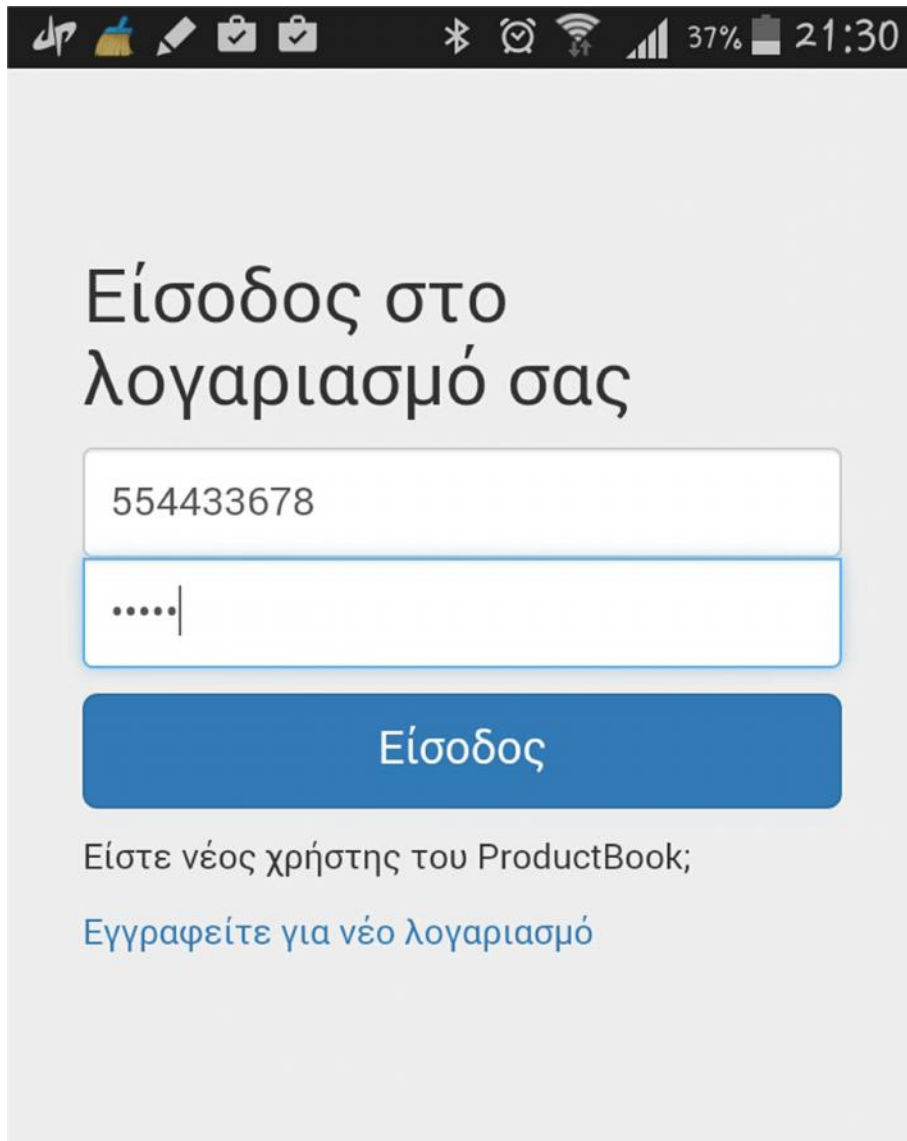
Η εγγραφή σας ολοκληρώθηκε

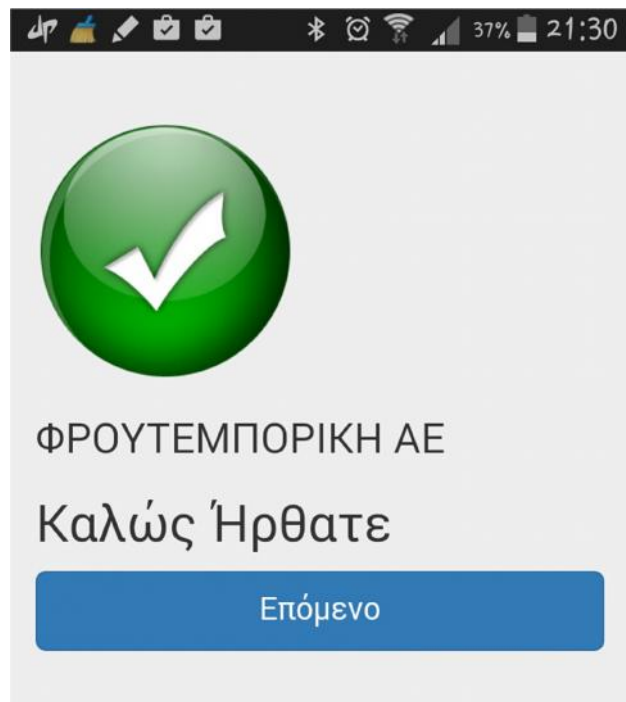
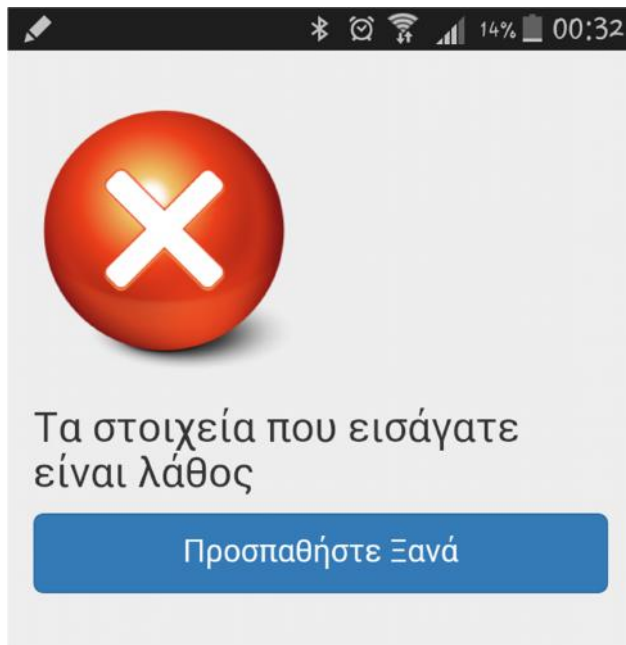
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{ "info_paragogos":[ {
  "AFM" : "554433678",
  "EPONIMIA" :
  "\u03a6\u03a1\u0399\u03a5\u03a4\u0395\u039c\u03a0\u0399\u03a1\u0399\u0391\u0397 \u0399\u0399",
  "TEL" : "210 5676544",
  "ADDRESS" : "\u0391\u0399\u03a1\u0399\u0399\u0399\u0399\u0399\u0399",
  "EMAIL" : "frouteborikh",
  "PSWD" : "5555"}]}
  
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4.2.2

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The screenshot shows a mobile application interface for entering product information. At the top, there is a status bar with icons for signal, Wi-Fi, battery (36%), and time (21:34). Below the status bar, the text "Κατάσταση: Φωτογραφία:" is displayed. There are three blue buttons: "Τραβήξτε φωτογραφία", "Επιλέξτε φωτογραφία από τη Συλλογή σας", and "Upload". Below these buttons is a text input field labeled "Όνομα". Underneath is the section "Ημερομηνία Παραγωγής" with three dropdown menus for "Ημέρα", "Μήνας", and "Ετος". Below that is the section "Ημερομηνία Λήξης" with three dropdown menus for "Ημέρα", "Μήνας", and "Ετος". There is a price input field with a "€" symbol and the label "Τιμή". Below the price field is a large text area labeled "Πληροφορίες". At the bottom of the form is a large blue button labeled "Εισαγωγή".



- Τραβήξτε φωτογραφία
- Επιλέξτε φωτογραφία από τη Συλλογή σας
- Upload

Ντοματα

Ημερομηνία Παραγωγής

3 ▼ Φεβρουάριος ▼ 2014 ▼


Ημερομηνία Λήξης

5 ▼ Μάρτιος ▼ 2015 ▼

€ 5

Ντοματες κοκκινες παραγωγης
Βοιωτιας Ελληνικες

☰ 📷 📝 📁 📁 🔗 ⌚ 📶 34% 🔋 21:41



Τραβήξτε φωτογραφία

Επιλέξτε φωτογραφία από τη Συλλογή σας

Upload

Ροδια

Ημερομηνία Παραγωγής

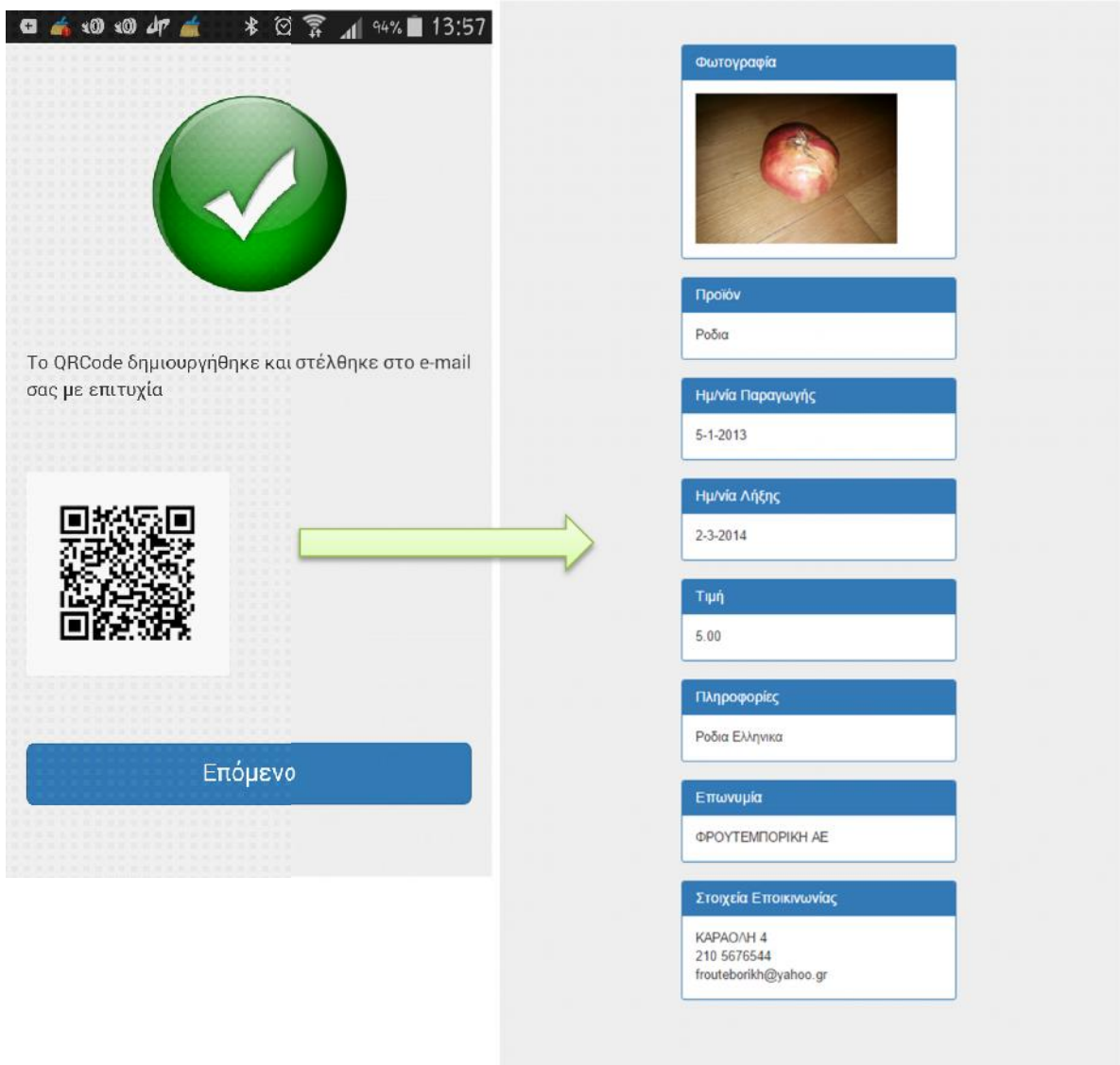
5 ▼ Ιανουάριος ▼ 2013 ▼

Ημερομηνία Λήξης

2 ▼ Μάρτιος ▼ 2014 ▼

€ 5

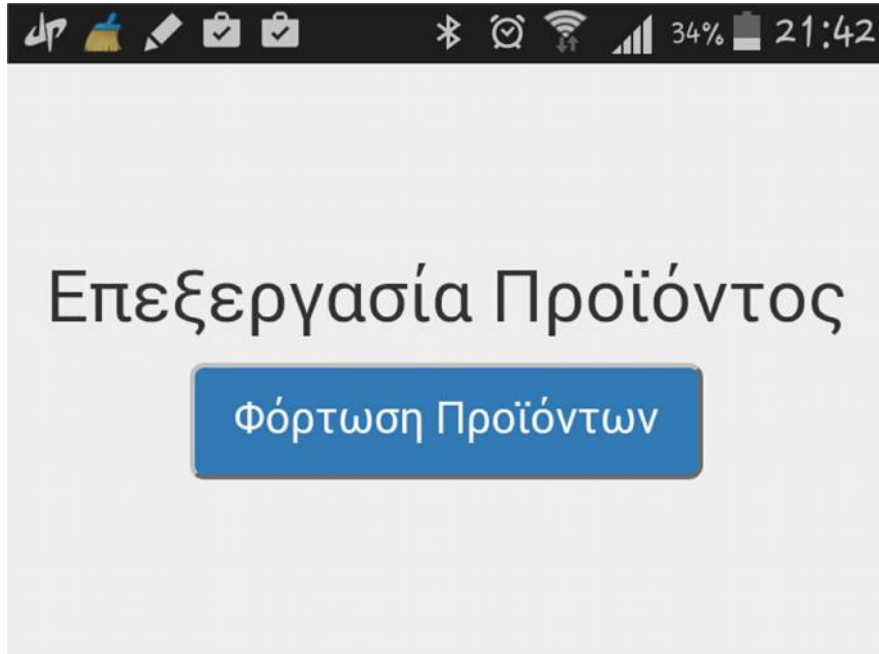
Ροδια Ελληνικά



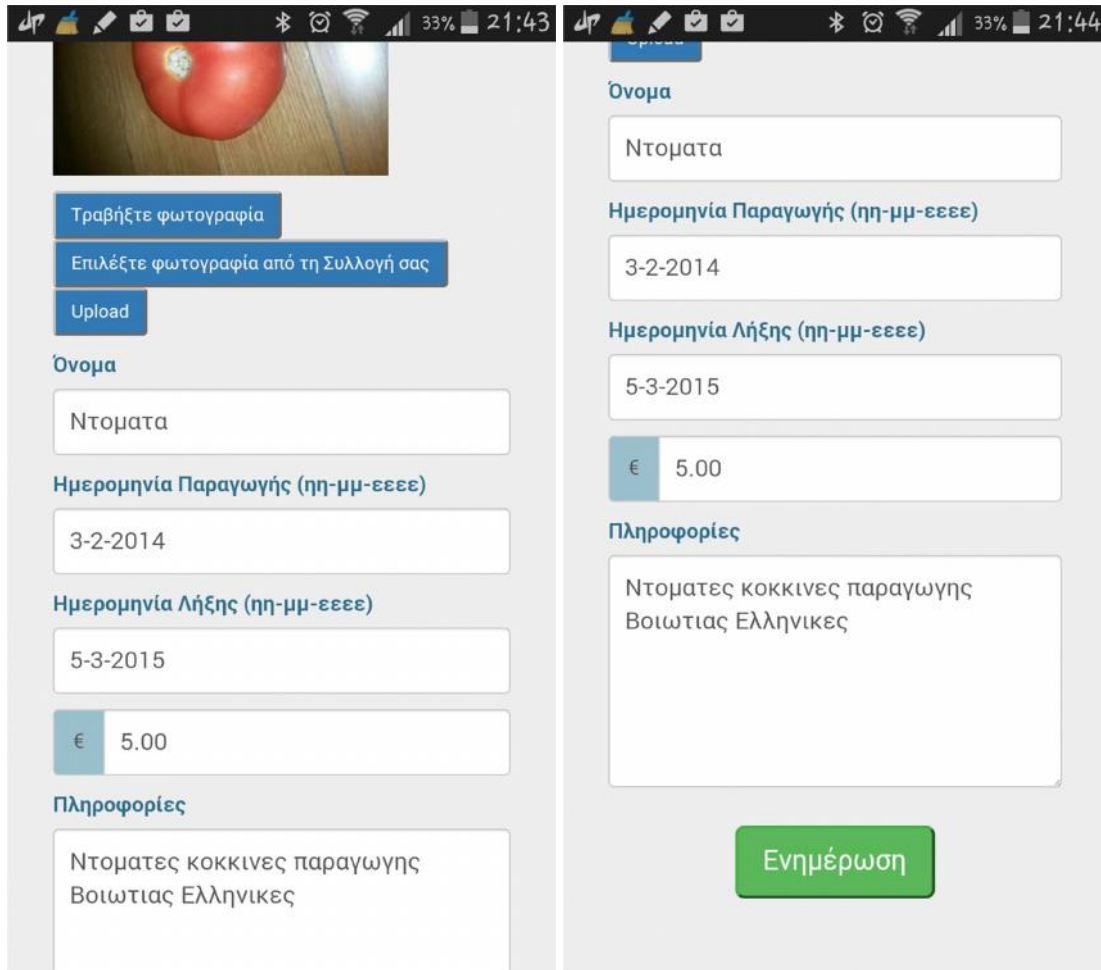
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4.2.3

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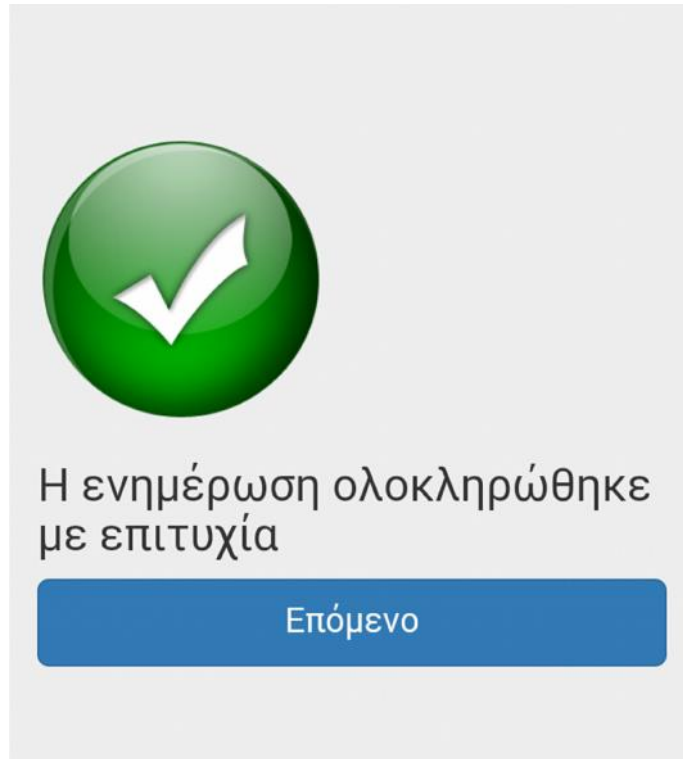
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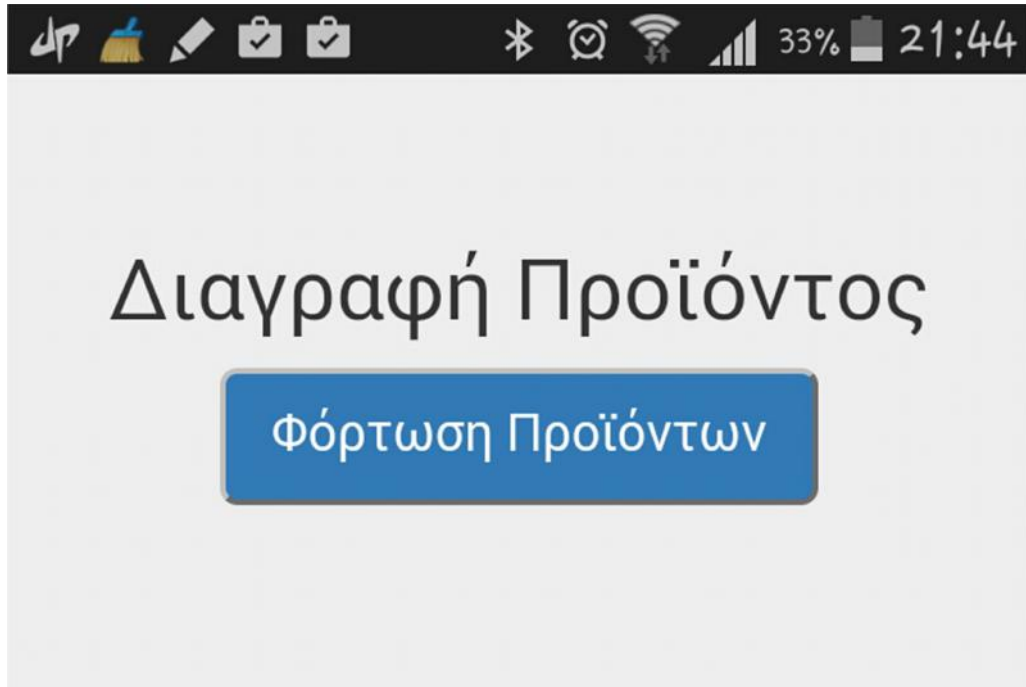
(javascript) php μ μ

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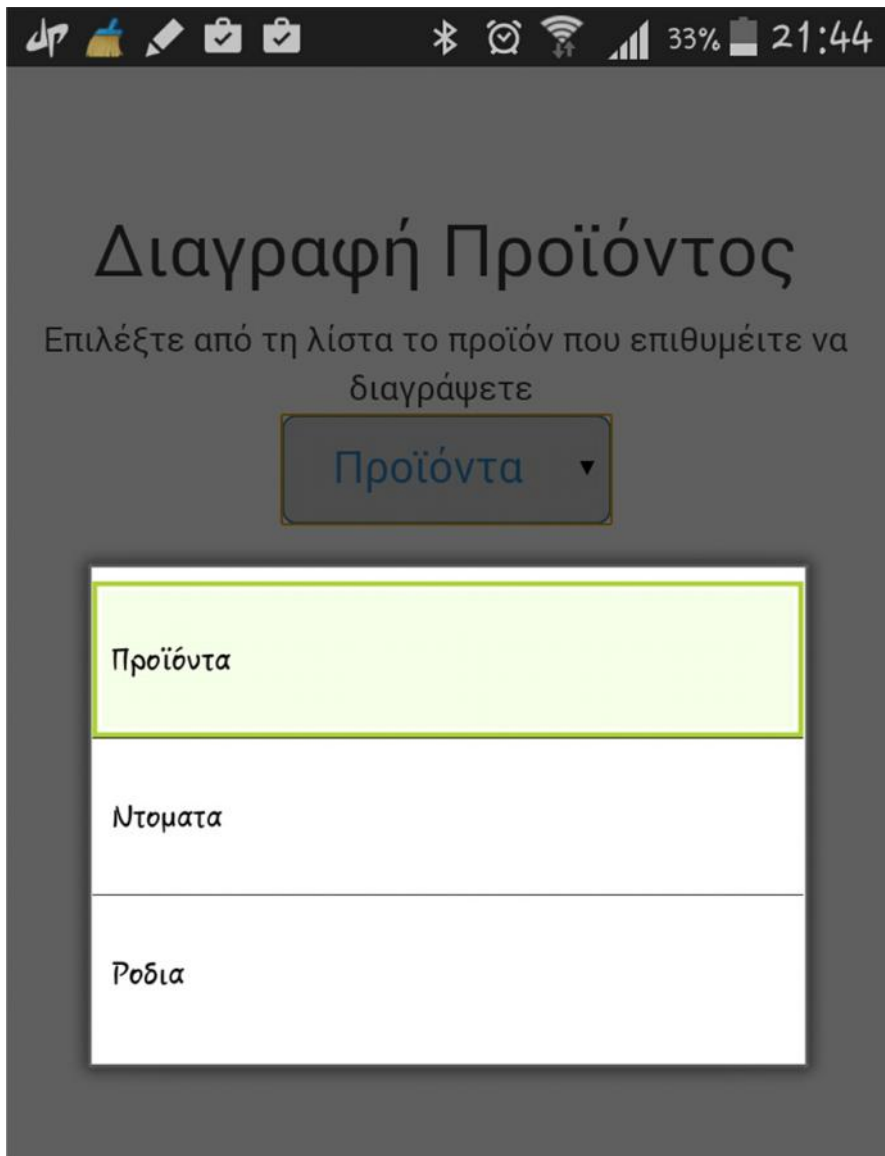


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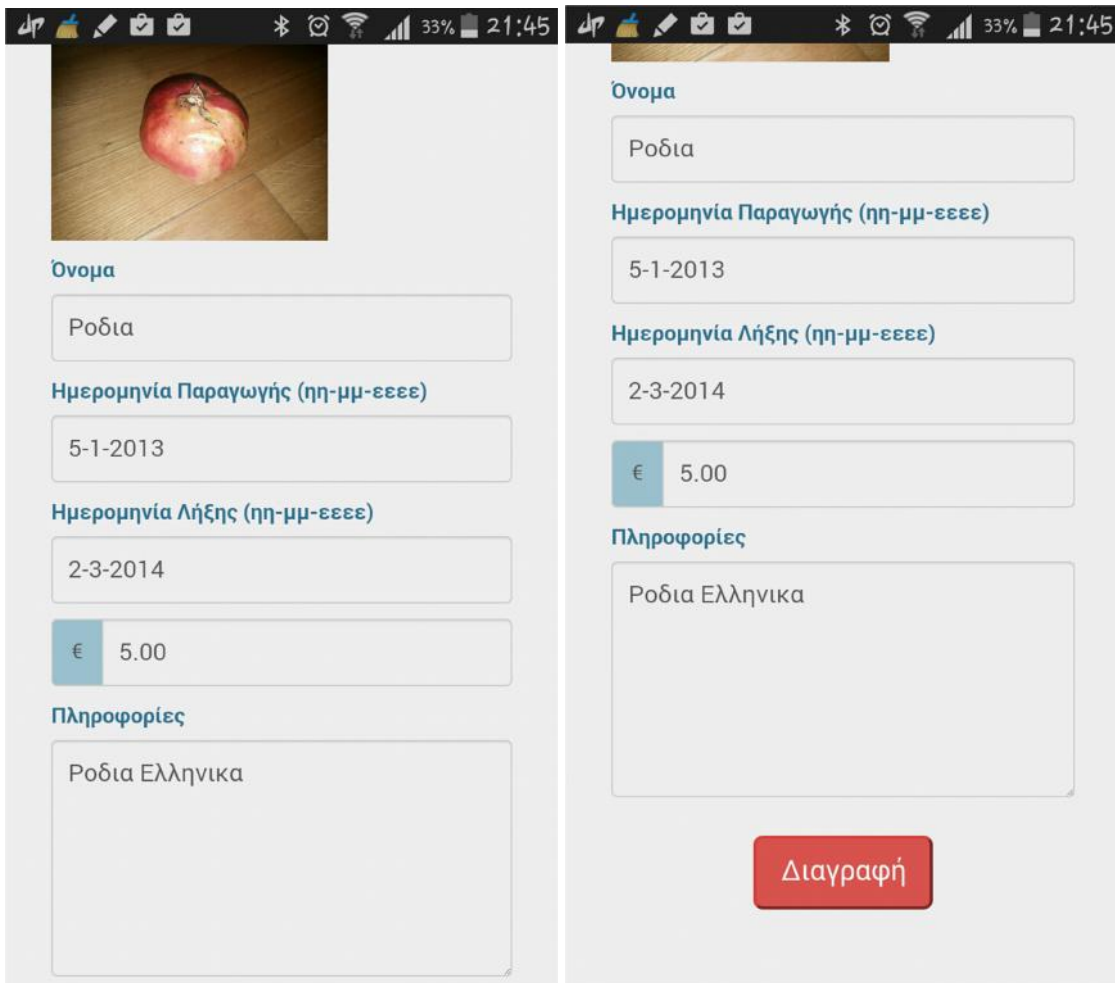
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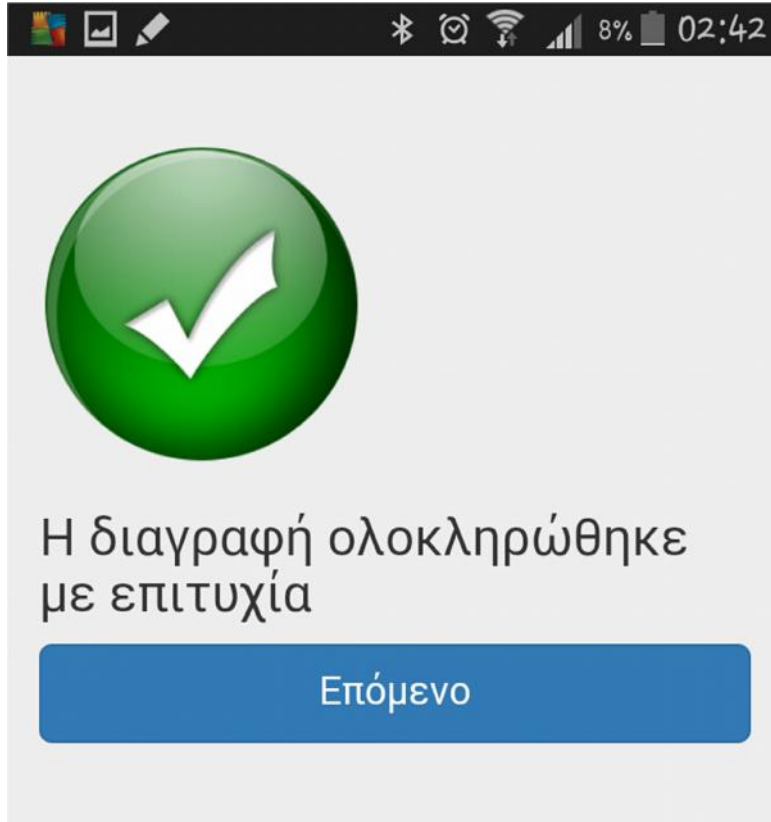
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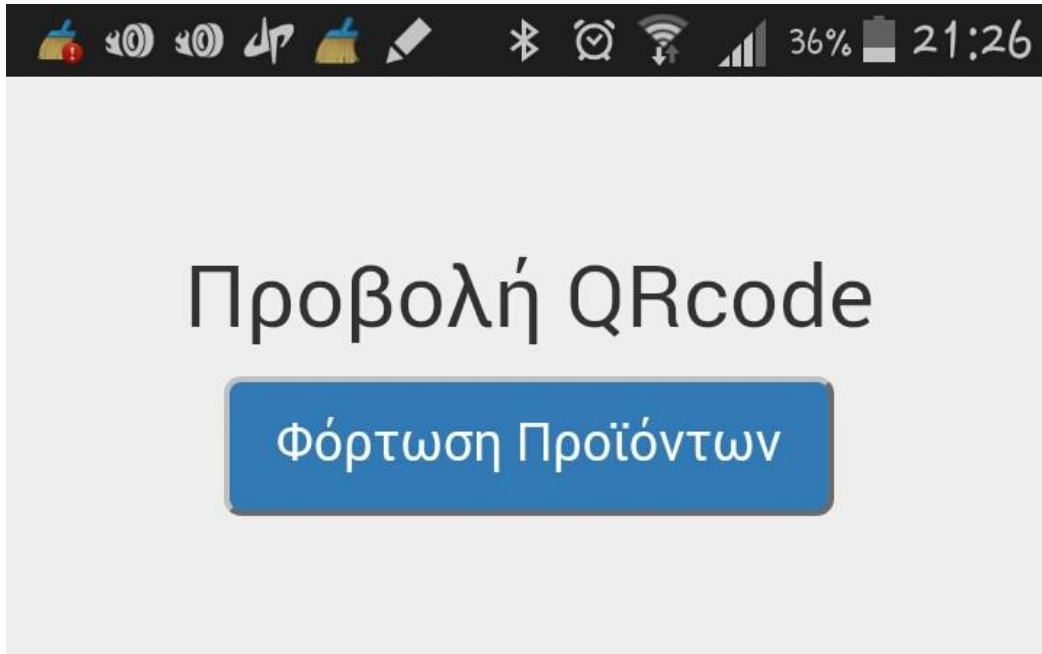
QR Code



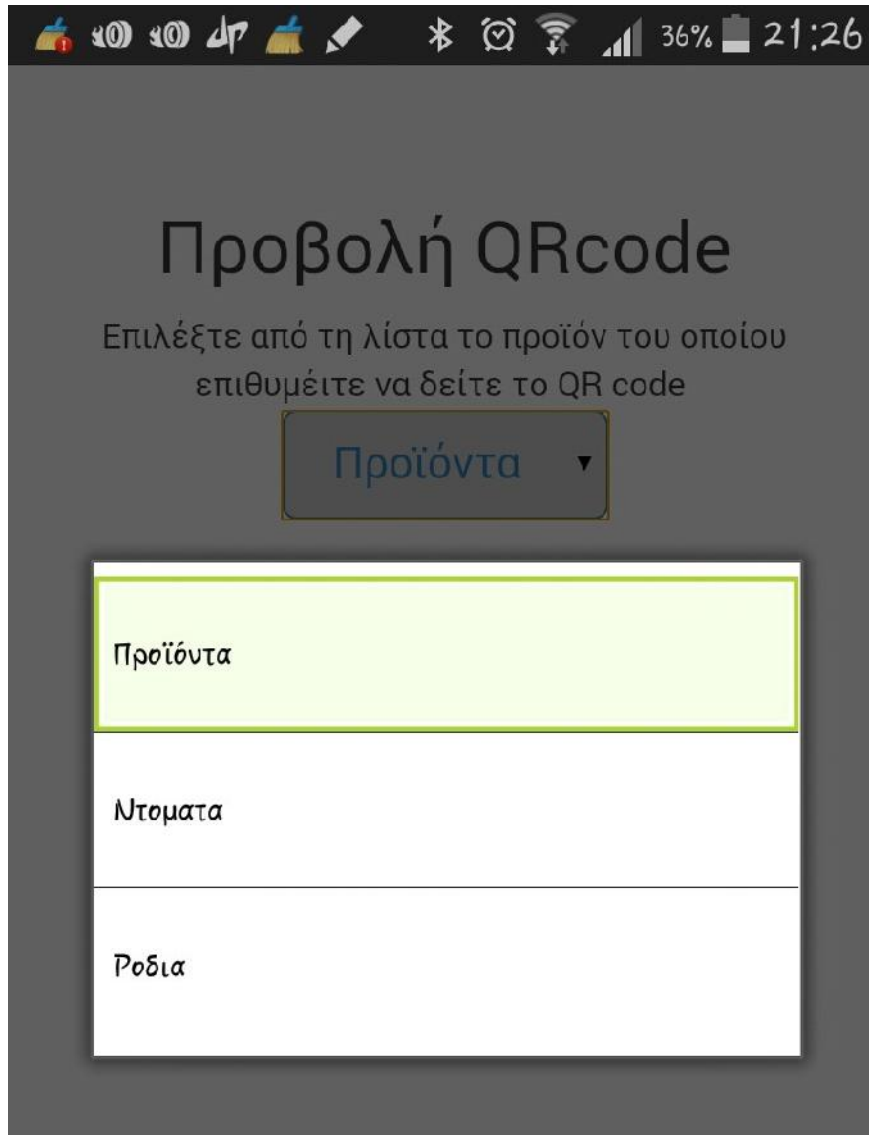
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QR Code

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Προβολή QRcode

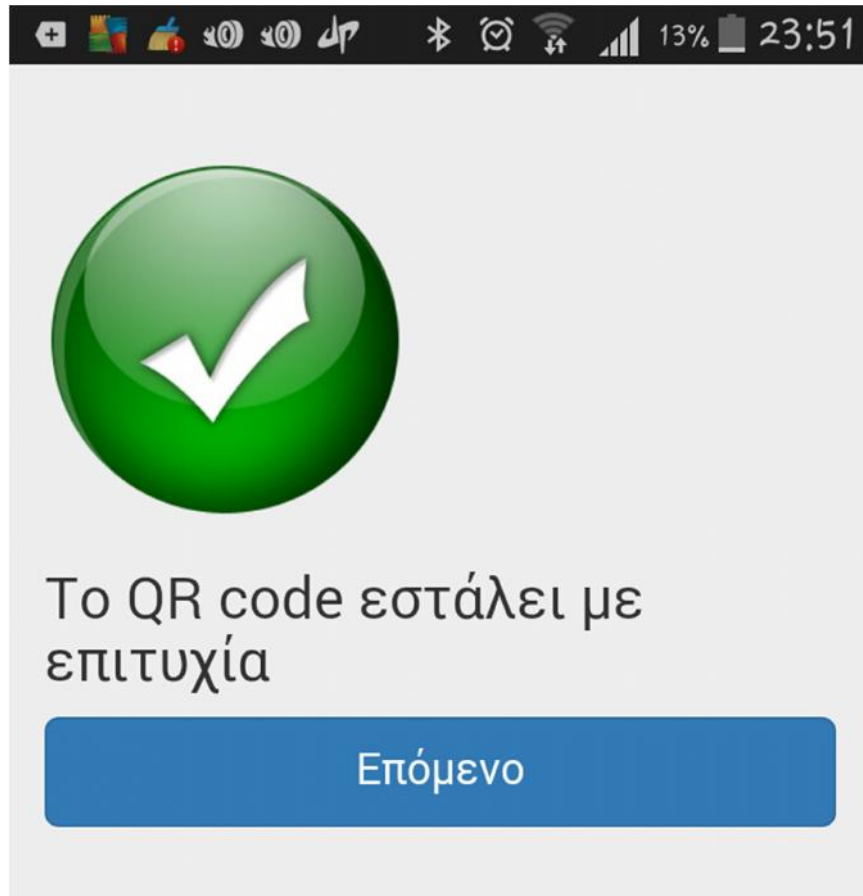
Επιλέξτε από τη λίστα το προϊόν του οποίου επιθυμείτε να δείτε το QR code



E-mail αποστολής QR code (μπορείτε να το αλλάξετε αν επιθυμείτε να σταλεί σε διαφορετική διεύθυνση)

Αποστολή με Email

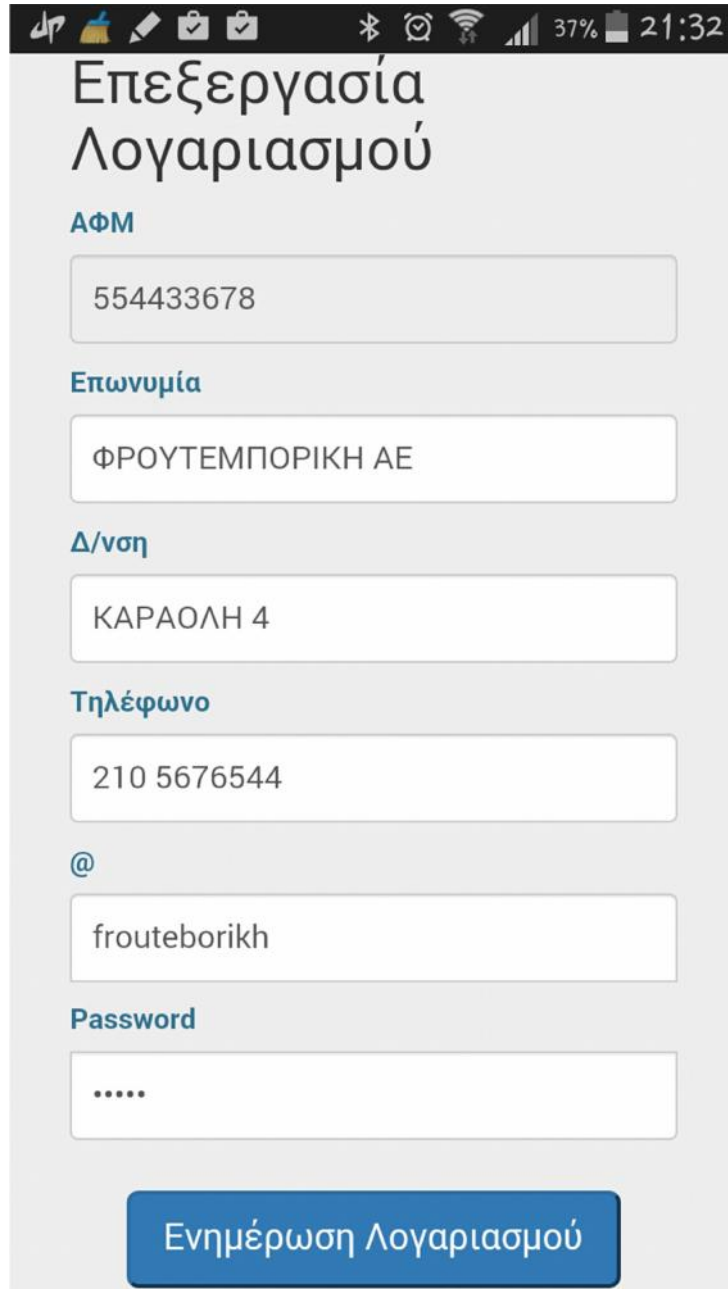
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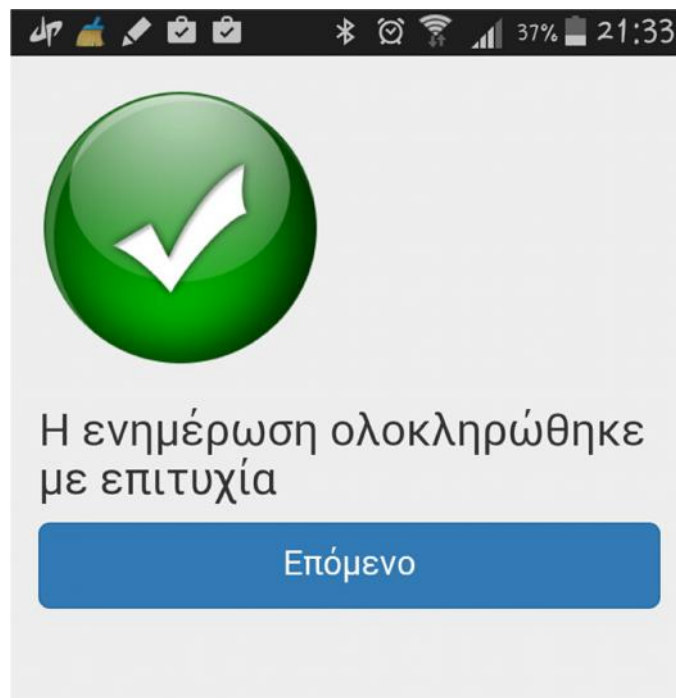


The screenshot shows a mobile application interface for updating an account. At the top, there is a status bar with various icons and a battery level of 37% at 21:32. The main title is "Επεξεργασία Λογαριασμού" (Account Update). Below the title, there are several input fields for personal and business information:

- ΑΦΜ** (VAT Number): 554433678
- Επωνυμία** (Company Name): ΦΡΟΥΤΕΜΠΟΡΙΚΗ ΑΕ
- Δ/ση** (Address): ΚΑΡΑΟΛΗ 4
- Τηλέφωνο** (Phone Number): 210 5676544
- @** (Email): frouteborikh
- Password**: Masked with six dots

At the bottom, there is a blue button labeled "Ενημέρωση Λογαριασμού" (Update Account).

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