

ESUG'2005

Application for “Innovation Technology Awards”

<http://www.e-racuni.com> (e-invoices)

Keywords:

Smalltalk web application, on-line accounting, invoicing, payroll, inventory, ASP

Smalltalk platforms it runs on:

For production we use Dolphin Smalltalk. Due to the dialect abstraction layer it could also run on VW, Squeak, VAST, ST/X or any other Smalltalk with support for sockets and streams.

Type of software:

Professional/commercial piece of software.

Names and affiliation of developers:

David Gorisek, IT consulting Gorisek d.o.o., Slovenia, <http://www.gorisek.com>

Description of the software:

The web application available at the URL <http://www.e-racuni.com> is a complete on-line business application for small to medium size businesses. The application offers functionality for writing invoices, offers, for payroll, on-line accounting with double entry bookkeeping, inventory, VAT settlement, e-banking connectivity and financial reporting.

The web application is developed 100% in Smalltalk with the following layers:

- dialect abstraction layer for support of multiple Smalltalk dialects (no vendor lock-in)
- O/R mapping layer with ability to use multiple relational databases (PostgreSQL, O/racle, DB2, MS SQL Server, MS Access, ...) and support for transactions, automatic schema migration, ...
- HTTP/1.1 server and a client with support for web services, page compression, ...
- XML support with YAXO
- PDF report generation support with own PDF parser/generator and ability to use existing PDF documents as templates,
- RTF and Word report generation layer
- HTML code generator with support for complex high-level GUI elements using HTML and Javascript (pull down menus, tree views, toolbars, date fields with calendars, Google suggest like entry fields, grid tables, ...), multi-language support
- web objects framework for controlling application flow
- business objects layer

The web application runs on any web browser and on any platform (Mozilla/Firefox, Internet Explorer, ...). The user only needs an internet connection (at least 64 kbps) and a web browser to use the application.

Screenshots:

(please disregard English translation errors)

TEST d.o.o. - e-obračuni - Mozilla Firefox

http://localhost/obračuni/WOB-ip3tmhTKM7c81s0K1qLVRWBi-1-70.html?action=changeLanguage&

Company: TEST d.o.o. | Slovenian | Croatian

Partner Invoices Warehouse Travel expenses Bank Cash register Payroll Accounting HelpDesk My profile

Employee bank accounts data

The data below are used for generating electronic payment orders that can be done by magnetic media or by using e-banking systems.

#	Bank	Account number	Reference	Description
1.				
2.				
3.				

User access

If you want to enable employees to access the program and use functions for entry, overview and payment order settlement, enter below the username for access the program.

Username:

Access status:

By selecting user rights enumerated below you can define which program functions can be used by employee and which data can employee see.

- Partner administration
 - Bank
 - Bank: overview ready payment orders packages
 - Bank: create and change payment orders packages
 - Bank: check turnover on bank accounts
 - Bank: import turnover statements
 - Travel expenses
 - Payroll

OK Cancel

Waiting for localhost...

The picture above shows input form for an employee with an HTML tree view element for employee's user privileges. See company selection in the top right of the window (multi mandant system, ability to work with multiple companies using a single username).

TEST d.o.o. - e-obračuni - Mozilla Firefox

http://localhost/obračuni/WOB-ip3tmhTKM7c81s0K1qLVRWBi-1-70.html?action=changeLanguage&

Company: TEST d.o.o. | Slovenian | Croatian

Partner Invoices Warehouse Travel expenses Bank Cash register Payroll Accounting HelpDesk My profile

Issued

Invoice no. (draft) - Enter data about partner

Enter informations about buyer for document head.

VAT- ID: Racun.ddvPo34Clenu:

Buyer name:

Name additional:

Street:

Zip/City:

Country:

Import e-account:

OK Cancel

menu.InvoiceAdn
menu.InvoiceAdn
menu.InvoiceAdn
menu.InvoiceAdn
menu.InvoiceAdn

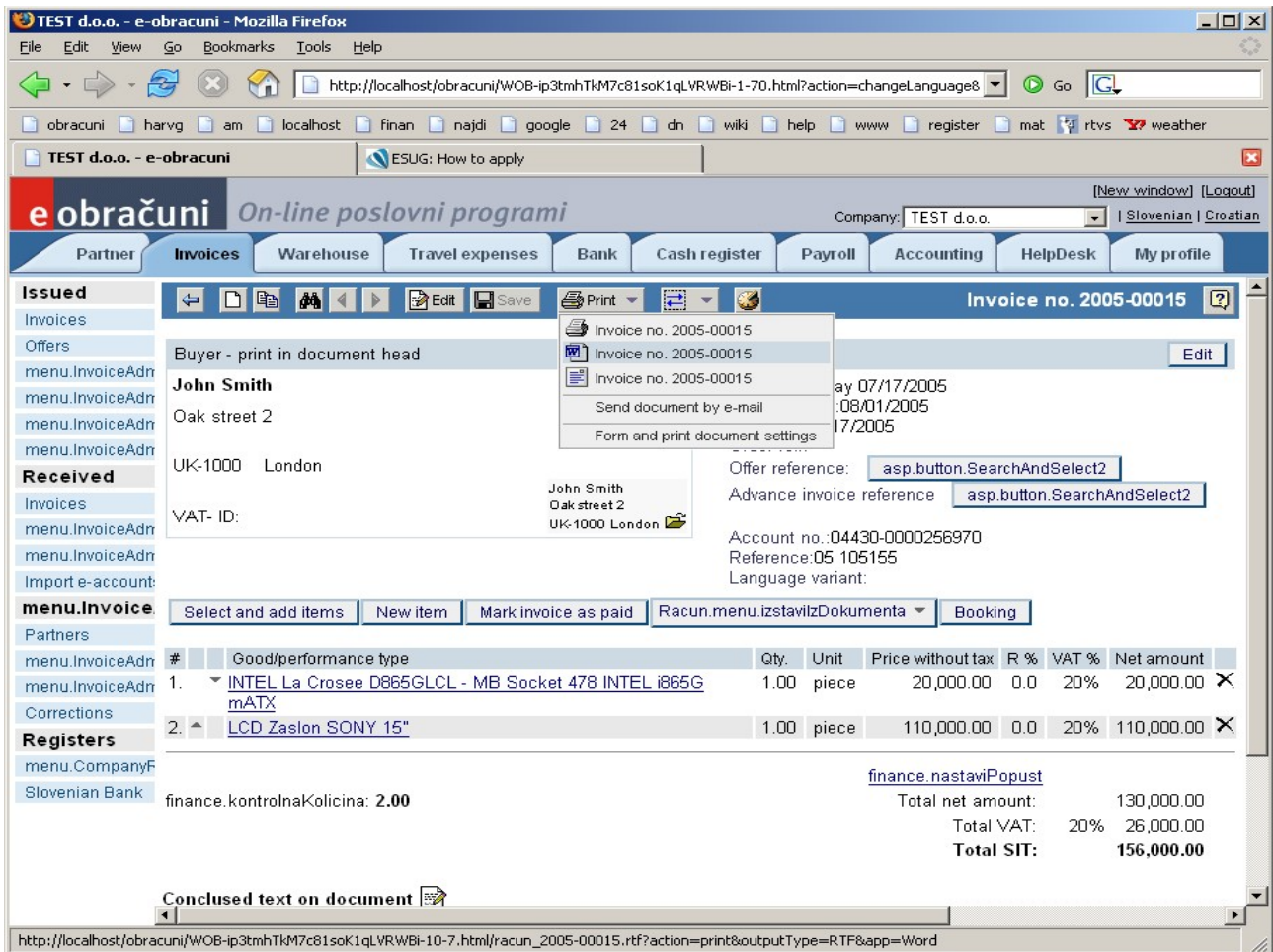
menu.Invoice

Partners
menu.InvoiceAdn
menu.InvoiceAdn
menu.InvoiceAdn

Registers
menu.CompanyF
Slovenian Bank

Done

Google suggest like entry field for selecting customer when preparing an invoice.



Standard toolbar on every page with toolbar menus. Notice the help icon [?] on the top right corner of the form which directly links to context sensitive help written in WikiDoc (see below):

