

AccountingWebODS

Projekt pre PB138

Zadanie

Vytvoriť webovú aplikáciu v Jave pre evidenciu príjmov a výdajov drobného živnostníka, ktorá bude dáta ukladať do súboru Open Document SpreadSheet.

Funkcionalita:

- Zaevidovať nový výdaj/príjem.

- Spočítať ročný zisk/stratu.

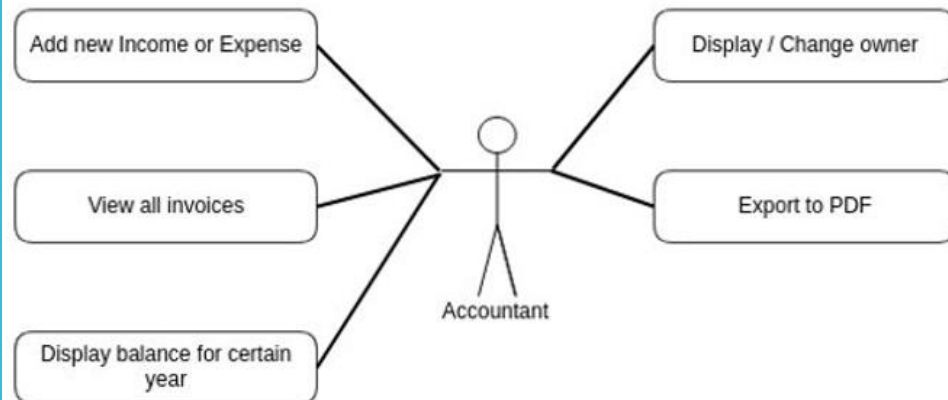
- Export dát do PDF.

K platbe evidovať

- Údaje o platcovi a príjemcovi

- Dátum vystavení a splatnosti

- Zoznam fakturovaných položiek



Tím

- Tatiana Fritzová
 - vedenie teamu, webová časť aplikácie, užívateľské rozhranie
- Katarína Matúšová
 - Export dát do PDF
- Aneta Moravčíková
 - Ukladanie dát do súboru ODS

Webové užívateľské rozhranie

Tatiana Fritzová

Použité technologie

- Jetty
- Javax.servlet
- JSP
- HTML
- CSS, resp. Bootstrap
- Javascript, resp. jQuery a AngularJS

Webová aplikácia

- StartListener
- Servlety pre jednotlivé užitia
- komunikácia klienta a serveru - HTTP
 - Klient zasiela požiadavky
 - Server generuje odpovede
 - Dynamické generovanie obsahu stránok - JSP

Welcome to *Accounting Management System*

| Choose action |
|-------------------------------|
| My profile |
| Add new invoice |
| View invoices |
| Balances for accounting years |
| Export to PDF |

My profile

Failure! No owner is set, please fill in required information.



Full name:

Address:

Set new owner

My profile

Success! Owner information was updated.



Full name:

Lisa Simpson

Address:

Springfield

Set new owner

Save

Invoice type:

Expense

Issue date:

06/01/2018

Due date:

06/30/2018

Name:

Morty Smith

Address:

C137 street

| Items | | | |
|---|--------|--------|--------------|
| <div><div><div></div><div>pizza</div></div><div>€5.99</div><div><div>↑</div><div>1</div></div><div><div>+</div></div></div> | | | |
| Description | Price | Pieces | Remove |
| pizza | 5.99 € | 1 | <div>⊖</div> |
| Total: 5.99 € | | | |

Success! Added new invoice.

×

Save

Invoice type:

Expense

▼

Issue date:

mm/dd/yyyy

Due date:

mm/dd/yyyy

Name:

Address:

Items



Description



Price



Pieces



Description

Price

Pieces

Remove

Total: 0 €

Failure! Failed to add new invoice.Due date cannot be before issue date



Save

Invoice type:

Expense

Issue date:

mm/dd/yyyy

Due date:

mm/dd/yyyy

Name:

Address:

Items



Description



Price



Pieces



Description

Price

Pieces

Remove

Total: 0 €

List of invoices

Q

Search...

| Type | From | To | Items | Issue date | Due date | Total amount |
|---------|---------------------------|---------------------------|------------|------------|------------|--------------|
| EXPENSE | Lisa Simpson, Springfield | Morty Smith, C137 street | Show items | 2018-06-01 | 2018-06-30 | 5.99 EUR |
| INCOME | Bender, New New York | Lisa Simpson, Springfield | Show items | 2018-07-22 | 2018-08-22 | 99.97 EUR |
| EXPENSE | Lisa Simpson, Springfield | Tatiana, Šahy | Show items | 2018-06-02 | 2018-06-08 | 1.5 EUR |
| EXPENSE | Lisa Simpson, Springfield | Katka, Trenčín | Show items | 2018-06-14 | 2018-06-20 | 79.99 EUR |
| INCOME | Anet, Hronsek | Lisa Simpson, Springfield | Show items | 2018-06-16 | 2018-06-19 | 9.41 EUR |
| EXPENSE | Lisa Simpson, Springfield | fdlj, jdsikjf | Show items | 2018-06-16 | 2018-06-22 | 107.96 EUR |

List of invoices

Q

pen

| Type | From | To | Items | Issue date | Due date | Total amount |
|---------|---------------------------|---------------------------|--|------------|------------|--------------|
| EXPENSE | Lisa Simpson, Springfield | Tatiana, Šahy | Show items pen (1.5 EUR) | 2018-06-02 | 2018-06-08 | 1.5 EUR |
| INCOME | Anet, Hronsek | Lisa Simpson, Springfield | Show items pen (1.95 EUR) pencil (1.5 EUR) scissors (2.99 EUR) notebook (2.97 EUR) | 2018-06-16 | 2018-06-19 | 9.41 EUR |

Balances for accounting years

| Year | Balance |
|------|---------|
| 2016 | 2094.00 |
| 2017 | 355.00 |
| 2018 | -86.06 |
| 2015 | -55.09 |

Export accounting data

Choose accounting year:

2018

all

2016

2017

2018

2015

Export

Export accounting data

Choose accounting year:

2017

Export

PDF will be automatically downloaded.

Ukladanie dát do ODS súboru

Aneta Moravčíková

[illegible]

Trieda InvoiceManagerImpl

- obsahuje hlavnú aplikačnú logiku
- hlavné metódy:
 - CreateInvoice
 - getOwner / setOwner
 - FindAllInvoices
 - exportToPdf

Export dát do PDF

Katarína Matúšová

Trieda PdfExporter

- export faktúr do PDF dokumentu
- Používa knižnicu iText PDF
- Metódy:
 - File export(List<Invoice> invoices, int year) ;
 - File exportAll(List<Invoice> invoices);

```
/**
 * Exports history of invoices from a certain year to a pdf file.
 * @param invoices list of invoices to export
 * @param year year of invoices to export to pdf
 * @return
 */
File export(List<Invoice> invoices, int year) ;
```

```
/**
 * Exports all invoices to PDF.
 * @param invoices list of all invoices
 * @return pdf File
 */
File exportAll(List<Invoice> invoices) ;
```

Ukážka exportu I

Invoice ID : 3
Issue Date : 2018-06-01
Due Date : 2018-06-03
Type : EXPENSE

From :

Name : Katarina Matusova
Address : Ulica Mieru 46, 01841 Ilava

To :

Name : John Smith
Address : Kounicova 50, 641 00 Brno

Items :

Notebook : 500,00 EUR
Computer mouse : 15,00 EUR
Keyboard : 50,00 EUR

Total Price : 565,00 EUR

Ukážka exportu II

Invoice ID : 4
Issue Date : 2018-06-03
Due Date : 2018-06-07
Type : INCOME

From :

Name : Alica Turanova
Address : Stara ulica 56, 01841 Dubnica

To :

Name : Katarina Matusova
Address : Ulica Mieru 46, 01841 Ilava

Items :

Book : 15,00 EUR
Pen : 4,62 EUR

Total Price : 19,62 EUR

Testovanie:

- Knížnice JUnit a AssertJ
- Vlastná výnimka
 - `IllegalEntityException`
- trieda `InvoiceBuilder`
 - zjednodušenie nastavenia atribútov objektu

```
@Test(expected = IllegalEntityException.class)
public void createExpenseWithNullBillTo() throws Exception {
    Invoice invoice = sampleInvoiceExpense().billTo(null).build();
    manager.createInvoice(invoice);
}
```

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