L5 Accounting.

TEAM 7: STANLEY, DUVALL, STARLYN, ZIAUL, JUNIOR

Client's Needs

- The client wants to be able to manage the sales tax of his companies.
- We also need to gather data from his other clients in order to manage all of their accounts.
- Being able to manage the payments dates made to the states.

Budget

- For $50,000 we can provide services to his current 5 clients.
- For future expansion the budget will increase depending on the number clients.

Requirements

- Create a website.
- Create a login system for the clients.
- Create a system that links two bank accounts.
- Track the amount of transactions in the sales account and the amount of sales tax in the Escrow account for every client.
- Send or display a statement to the client for monthly transactions.
- 5 clients and 5 different POS(point-of-sales).

Team 7

What we each know:

Stanley --> Java, HTML, CSS, JavaScript, and Android.

Duvall --> Java, Python, C++, HTML, CSS, and SQL.

Starlyn --> Java, C++, SQL, Android, and Swift.

Ziaul --> Java, Python, iOS Swift, HTML, and CSS.

Junior --> Java, Android, and Swift.

Solution

- We will create a software that manages all of the accounts of every company.

Analysis

- Project Specifications:
- Front-End in HTML/CSS and JavaScript.
- Back-end in Java, Python, JavaScript programming Language.
- JavaScript code processes the data in CSV files and takes the income and adds it to the account Balance.
- The sales tax gets added to the Escrow account. From the Escrow account it goes to it's respective states. NY, NJ, CT, MASS, and etc.

Methods of Communication

1) In person meetings either after class or on Fridays.
2) WhatsApp messenger.
3) Email.
4) Storage on Google Drive and GitHub.
5) GitHub: https://github.com/Physsi07/Accounting-Practice-Software-Engineering-

Communications Problem

- People have different work schedules, therefore causes a hard time to communicate.
- Having trouble communicating on which programming language to use for the software.

Team Formation

Synchronize-and-Stabilize Teams

a. Products consist of 4 sequential builds

b. Small parallel teams:

   i. 5 developers.

   ii. We test each other's code.

   iii. The team is given the overall task specification.

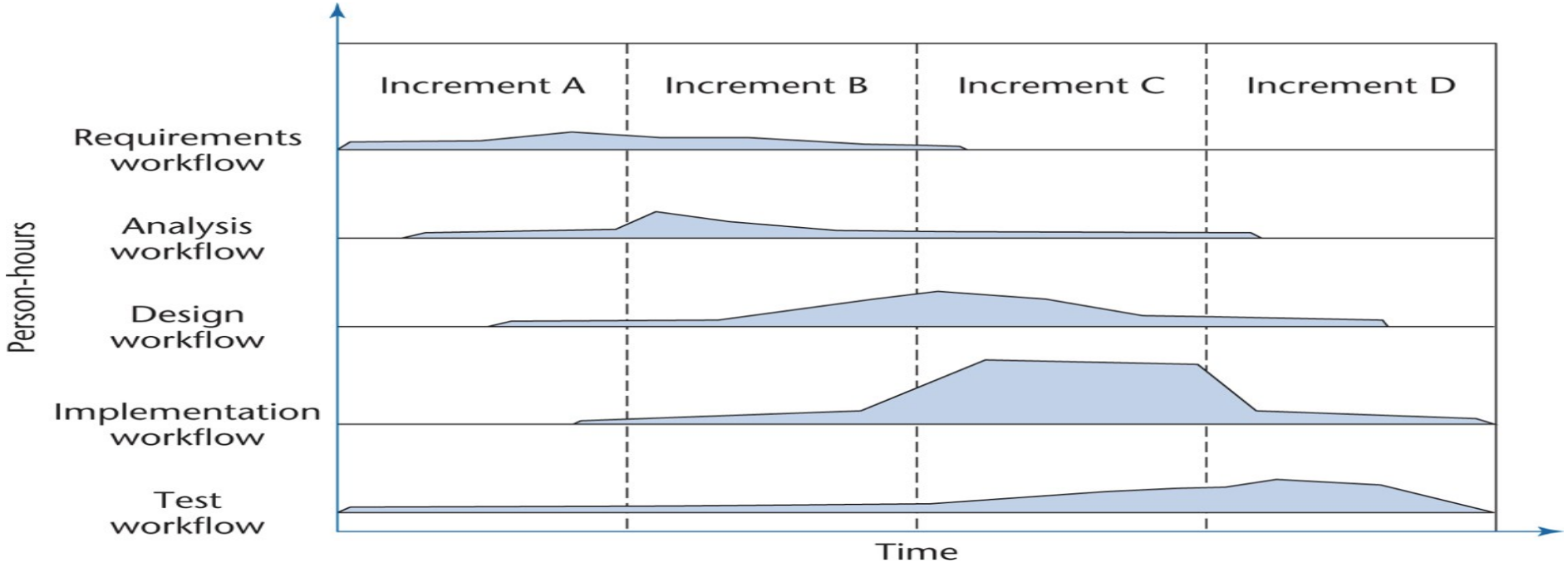
   iv. We design the task as we wish.

Current Model of Solution

- Python Program.
- Connects to MySQL.
- Reads The Data tables.
- Gives Graphical User Interface to take the input.
- Add the input to database/SQL table.
- Process the HTML pages.

Life Cycle Model

- The Iterative and Incremental Development Model:
- Is any combination of both iterative design or iterative method and incremental build model.



Design

- UML diagram using a single class to hold the accounting information per each client/company.
- 5 Companies, 5 checking accounts for income.
- 5 Escrow accounts for the sales tax. Within the each Escrow accounts each state (NY, NJ, CT, Chicago, Boston.)
- Data Analytics of the data we gathered to form charts and graphs of the income, expenses and the sales tax collected.
- Expenses gets debited from the income account and NOT the tax accounts.
- Statements get printed out in a .txt file per each transaction.

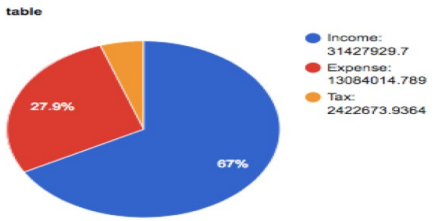
Homepage


LE Accounting
user name
password
LOGIN
Not Registered Register
Forget Password

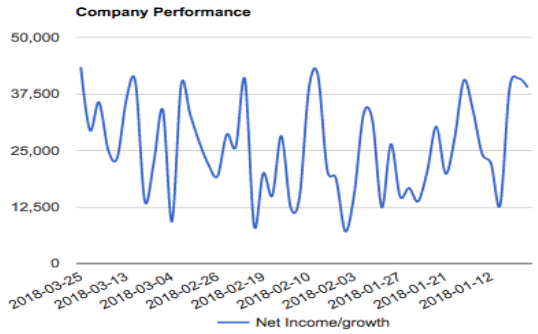

LE Accounting
user name
password
email id
REGISTER
Already Registered? Login

Screenshots

TEST all



ID	Client	State	Date	Income	Expense	Tax
2	client_name	state	None	0.0	0.0	0.0
3	food_truck	CT	2017-01-01	405.2	174.236	25.7302
4	food_truck	NY	2017-01-02	428.9	184.427	38.0649
5	food_truck	CT	2017-01-05	1722.5	740.675	109.379
6	food_truck	NJ	2017-01-06	675.0	290.25	44.7188
7	food_truck	CT	2017-01-08	1088.0	467.84	69.088
8	food_truck	NY	2017-01-09	1468.5	631.455	130.329
9	food_truck	NY	2017-01-10	1749.4	752.242	155.259



TEST Recent

ID	Client	State	Date	Income	Expense	Tax
1435	battery_company	BOSTON	2018-03-25	97147.6	47602.3	6071.73
1434	battery_company	BOSTON	2018-03-22	65889.5	32285.9	4118.09
1433	battery_company	NY	2018-03-19	84655.9	41481.4	7513.21
1432	battery_company	CHICAGO	2018-03-18	61619.9	30193.8	6316.04
1431	battery_company	CHICAGO	2018-03-15	57328.5	28091.0	5876.17

Task Schedule

- 04/01/2018 – First prototype will be built.
- 04/14/2018 – We're beginning the QA testing phase(on going at all times!).
- 05/01/2018 – Acceptance test.
- 05/20/2018 – Deployment.

Compatibility & Portability

- This software will run on any windows or mac OS operating system.
- This software can accessed using any mobile devices with internet access and any desktop.