AccountAble:

Asset Management Software for the Modern Age



Developed By:

Data Over Sata

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System Documentation for: AccountAble

# INTRODUCTION

Accountable is a software solution for the tracking and accounting of the Computer Science Department’s cashflow at the University of Montana. Currently, there is a paper system in place that is cumbersome and hard to manage, and this software aims to alleviate the burden of managing these accounts.

## Purpose and Scope

Accountable is intended to ease the process of tracking money moving in and out of the accounts for the Computer Science Department. To do so, AccountAble provides a system where workflow is optimized and user-friendly.

## Development Team and Roles

### David Rich

### Derek Hickman

### Clayton Tallwhiteman

### Cordell Appel

# System Overview

## Basic System Design

## MVC Architecture

## Functional Requirements

Administrative login (csadmin, csci323)

Logout

Logo for software

Developed by at the bottom

Accounts

Balance, Name, Description, Phone, Email

Create Acct

Must fill all fields

Shouldn’t be able to create 2 accounts with same name

Modify Acct

Delete Acct

Warning: You are about to delete acct

Should not delete linked transactions

View Acct

Transactions

Credit Card

Date, description, code, amount

4% fee

8% university fee

Must fill all fields

Check

Date, description, code, amount

8% university fee

Must fill all fields

Expense

Date, description, code, amount

Must fill all fields

Delete Transaction

Warning: You are about to delete transactions

Views

All Transactions

Transactions for specific accounts

Every screen should have software name at top

Every screen should have developed by at the bottom

## Non-Functional Requirements

Entire Account Balance

View

Overall balance

Balance for each acct

8% held

4% held

Benefits calculator

Users Guide

Dropdown list for codes

Information is loaded on startup and saved during execution or shutdown

Won’t accept invalid data in fields

# dATABASe design

## Database Architecture

# System Requirements

## Hardware Requirements

* AccountAble requires Java 8, which will only run on a computer with the following hardware specifications:
  + RAM: 128 MB
  + Disk space: 124 MB for JRE; 2 MB for Java Update
  + Processor: Minimum Pentium 2 266 MHz processor

## Software requirements

* AccountAble requires Java 8, which will only run on a computer with the following software specifications:
  + Running an operating system in the following groups:

#### Windows

* Windows 10 (8u51 and above)
* Windows 8.x (Desktop)
* Windows 7 SP1
* Windows Vista SP2
* Windows Server 2008 R2 SP1 (64-bit)
* Windows Server 2012 and 2012 R2 (64-bit)

#### Mac OS X

* Intel-based Mac running Mac OS X 10.8.3+, 10.9+

#### Linux

* Oracle Linux 5.5+
* Oracle Linux 6.x (32-bit), 6.x (64-bit)
* Oracle Linux 7.x (64-bit) (8u20 and above)
* Red Hat Enterprise Linux 5.5+, 6.x (32-bit), 6.x (64-bit)
* Red Hat Enterprise Linux 7.x (64-bit) (8u20 and above)
* Suse Linux Enterprise Server 10 SP2+, 11.x
* Suse Linux Enterprise Server 12.x (64-bit) (8u31 and above)
* Ubuntu Linux 12.04 LTS, 13.x
* Ubuntu Linux 14.x (8u25 and above)
* Ubuntu Linux 15.04 (8u45 and above)
* Ubuntu Linux 15.10 (8u65 and above)

# References

## Git Repository

* The Git Repository for this project is located at <https://github.com/davidrich27/DataOverSata>
* It includes an executable JAR file to be run on all systems.

## Product Backlog

* The Product Backlog of this project was managed with the online software Trello. It is located at <https://trello.com/b/5QVMRjQt/product-backlog>

## External References

* JavaFX Documentation
  + <https://docs.oracle.com/javase/8/javase-clienttechnologies.htm>
* Gantt Project – Tool for managing Gannt Charts
  + <http://www.ganttproject.biz/>
* Scene Builder- Tool for creating FXML files
  + <http://gluonhq.com/products/scene-builder/>