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

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

#### Scrum master, Chief developer

### Derek Hickman

#### Documentation Engineer, QA engineer

### Clayton Tallwhiteman

#### Developer, User-Experience Manager

### Cordell Appel

#### Developer, Resource Manager

# 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 located in the final branch, in the folder Accountable/SRC.

## 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/>