

# Iceberg Accounting Suite

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Welcome to Iceberg Accounting Suite! This software will provide you with a set of accounting books and now includes invoicing. The purpose of this software is to help individuals and small businesses keep track of their financial records in one place.

## Running From Code (Linux):

Running this program from code requires Python 3. Please follow the installation instructions here:  
<https://www.python.org/downloads/>

Once you have Python 3 installed, open a terminal and navigate to the Iceberg folder. Enter the following commands to create a virtual environment and run from code:

1. Create a virtual environment in the folder in a hidden subfolder called ".venv".

```
python3 -m venv .venv
```

2. Activate the virtual environment in the terminal:

```
source .venv/bin/activate
```

3. Install all prerequisites in the virtual environment you created:

```
pip install -r requirements.txt
```

4. Launch Iceberg:

```
python3 iceberg.py
```

The Graphical User Interface (GUI) will pop up showing the Dashboard.

Subsequent startups:

1. Open a terminal and navigate to the Iceberg folder.

2. Activate the virtual environment:

```
source .venv/bin/activate
```

3. Launch Iceberg:

```
python3 iceberg.py
```

## Compiling the software (Linux)

Compiling this software into an executable can make it more convenient to run Iceberg.

Compiling this software from code requires Python 3. Please follow the installation instructions here:  
<https://www.python.org/downloads/>

Once you have Python 3 installed, open a terminal and navigate to the Iceberg folder. Enter the following command:

```
./compile.s
```

Once the command runs you will have iceberg.exe in your Iceberg folder.

*Tip! If you get a permission denied error, enter the following command to give yourself execute permission:*

```
chmod u+x compile.s
```

## Running Tests

```
pytest
```

## Accounting Databases

### **Creating a Database**

Once the program has opened, the first step is to create a database from the File>New Database dropdown in the top menu.

In the popup, enter a business name. You can use your own name if you aren't a business.

Select a filekey save location. This can be anywhere, including a thumb drive. The filekey is the file you will select when opening your database.

Enter your business address

Fill out identifying information and notes (optional)

If you collect sales tax, fill out your state's sales tax percentage. If you don't collect sales tax, leave the field set to 0.00.

Select a receipts repository location. It is recommended that you organize your receipts into sub-folders by year. Invoices will also be saved to this folder.

Hit Submit. The database (.icb) will be created in the Iceberg folder and the chart of accounts will load to the dashboard in the main window.

### **Saving a database**

The database is loaded into your RAM while it is being edited. It is necessary to save the database file to prevent losing information on exit.

The database will autosave every 5 minutes while it is open.

You can also select File>Save Database from the top menu.

### **Opening a Database**

On subsequent startups, you can open your database by selecting File>Open Database from the top menu.

In the popup, select your filekey (.icbkey). This is the file that you saved when creating the database.

The software will use your filekey to open the corresponding .icb file in the Iceberg directory. The chart of accounts and financial summary will load to the Dashboard.

## Viewing and Editing Database Properties

If you make a mistake when creating your database, you can update the database properties by selecting File>Database Properties in the top menu.

The properties will appear in editable fields. Make changes and then select the Save Properties button.

## Dashboard

The screenshot shows the Iceberg Accounting Suite interface. The title bar reads "Iceberg Accounting Suite". The menu bar includes File, Dashboard, Ledger, Reports, Vendors, Customers, Products, Services, and Help. The main window displays the following information:

**A\_Alpha\_Corporation**  
Sunday, 12/14/2025 - 13:46 EDT

**Dashboard**

- Total Assets: \$21,866.61
- Total Assets must equal Liabilities plus Total Equity.
- Total Liabilities: \$901.16
- Net Assets: \$20,965.45
- Net Assets must match Total Equity. Total Assets - Liabilities
- Revenue: \$21,005.00
- Total Expenses: \$920.55
- Business Income: \$20,084.45
- Total Withdrawals: \$4,119.00
- Retained Earnings: \$15,965.45
- Ordinary Business Income - Withdrawals
- Owner Equity: \$5,000.00
- Total Equity: \$20,965.45
- Total Equity must match Net Assets. Deposits + Revenue - Expenses - Withdrawals
- Credits: \$35,592.62; Debits: \$35,592.62
- Your records are balanced.

**A\_Alpha\_Corporation Loaded**

Account_ID	Name	Credits	Debits	Balance
10001	Fixed Asset Real Estate	\$0.00	\$0.00	\$0.00
10002	Fixed Asset Bank Account Checking	\$4,917.32	\$17,412.61	\$12,495.29
10003	Misc Property	\$0.00	\$0.00	\$0.00
10004	Cash	\$122.23	\$5,746.65	\$5,624.42
10005	Product Inventory	\$0.00	\$0.00	\$0.00
10006	Accounts Receivable	\$3,646.91	\$7,393.81	\$3,746.90
11001	Office Supplies and Postage	\$0.00	\$0.00	\$0.00
11002	Advertising	\$0.00	\$0.00	\$0.00
11003	Commissions and Fees	\$0.00	\$0.00	\$0.00
11004	Contract Labor	\$0.00	\$0.00	\$0.00
11005	Asset Depreciations	\$0.00	\$0.00	\$0.00
11006	Insurance	\$0.00	\$0.00	\$0.00
11007	Mortgage Interest	\$0.00	\$0.00	\$0.00
11008	Legal and Professional Services	\$0.00	\$0.00	\$0.00
11009	Rent or Lease of Personal Property	\$0.00	\$0.00	\$0.00
11010	Rent or Lease of Real Property	\$0.00	\$0.00	\$0.00

All Years All Accounts View Account New Account

**Console**

Console (Sunday, 12/14/2025 - 13:45:00 EDT): Database saved to ./A\_Alpha\_Corporation.icb; Key saved to /home/ice/Downloads/01\_PvCounting/A\_Alpha\_Corporation.icbkey

## Viewing the Chart of Accounts

You can view your chart of accounts on the Dashboard tab by selecting Dashboard>Go to Dashboard from the top menu. The chart of accounts will populate in the panel on the right.

Select a specific year from the year dropdown below the chart of accounts.

Select an account type to display from the account type dropdown below the chart of the accounts.

View the register for an account by selecting it in the list and then hitting the View Account button.

The chart of accounts will report all financial history up to the end of the selected year for permanent accounts (assets, liabilities, and equity deposits) while for temporary accounts (expenses, equity withdrawlas, and revenue) only the selected year is reported.

## Adding an Account

You can add an account on the Dashboard tab by selecting Dashboard>Go to Dashboard from the top menu and hitting the New Account button below the chart of accounts.

In the popup, enter an Account Name in the top field.

Select the account type from the dropdown menu.

Fill out the bank account information corresponding to this account and add notes (optional).

Select the Submit button. The new account will appear in the chart of accounts on the main window.

## Financial report

You can view your financial report on the Dashboard tab by selecting Dashboard>Go to Dashboard from the top menu. The finanical report on the left side of the dashboard reports all financial history in the ledger, regardless of what you display on the chart of accounts.

## Transactions

### Creating a Transaction

Record a New Transaction

Transaction 27

Transaction Name\*:

Transaction Date\*:  Select Date

Amount\*: \$

Debit Account\*:

Credit Account\*:

Vendor:

Notes:

Select Image

Submit



A journal transaction can be created from the Ledger>View Ledger tab and selecting the New Transaction button or by selecting Ledger>New Transaction directly from the top menu.

- In the popup, record a transaction name and amount.
- Select the transaction date using the Select Date button.
- Select the Debit (Deposit) and Credit (Source) accounts from the drop-down menu. They cannot be the same account.
- Select a vendor and add notes. (optional)
- Attach a receipt photo by selecting Select Image. (optional)
- Hit the submit button. If you filled out everything correctly the button will change to ask Really? Click the button again to save the transaction to the database. The transaction will appear at the top of the ledger in the main window.

## **Editing a Transaction**

If you make a mistake while entering a transaction, you can edit it from the Ledger tab by selecting Ledger>View Ledger in the top menu.

- Find the transaction in the ledger using the search bar and year picker.
- Select the transaction in the list to load its details into the side panel.
- Select Edit Transaction to unlock the fields.
- After you've made corrections, select Save Transaction.

## **Vendors**

### **Adding a Vendor**

A vendor can be added from the Vendors>View Vendors tab and selecting the New Vendor button or by selecting Vendors>New Vendor directly from the top menu.

- In the popup, record a vendor name.
- Fill out the rest of the fields if you have that information.
- Select Add Vendor. The vendor will appear in the vendor list in the main window.

### **Editing a Vendor**

If you make a mistake while entering a vendor, you can edit it from the Vendor tab by selecting Vendors>View Vendors in the top menu.

- Find the vendor in the vendor tab using the search bar.
- Select the vendor in the list to load its details into the side panel.

Select Edit Vendor to unlock the fields.

After you've made corrections, select Save Vendor.

## Customers

### **Adding a Customer**

A customer can be added from the Customers>View Customers tab and selecting the New Customer button or by selecting Customers>New Customer directly from the top menu.

In the popup, record a customer address.

Fill out the rest of the fields if you have that information. This information will be used on Invoices so the more you have the better.

Select Add Customer. The customer will appear in the customer list in the main window.

### **Editing a Customer**

If you make a mistake while entering a customer, you can edit it from the Customer tab by selecting Customers>View Customers in the top menu.

Find the customer in the customer tab using the search bar.

Select the customer in the list to load its details into the side panel.

Select Edit Customer to unlock the fields.

After you've made corrections, select Save Customer.

## Services

### **Adding a Service**

A service can be added from the Services>View Services tab and selecting the New Service button or by selecting Services>New Service directly from the top menu.

In the popup, record a brief description and price.

Select the taxability of the service from the taxable dropdown.

Add notes if you have any.

Select Add Service. The service will appear in the service list in the main window.

### **Editing a Service**

If you make a mistake while entering a service, you can edit it from the Service tab by selecting Services>View Services in the top menu.

Find the service in the service tab using the search bar.

Select the service in the list to load its details into the side panel.

Select Edit SKU to unlock the fields.

After you've made corrections, select Save SKU.

## Invoices

### Creating an Invoice

**Record Invoice 10010**

ID	Company Name	First Name	Last Name

Sku	Description	Price	Taxable

Customer Name:

Customer Address\*:

Customer Contact:

Status\*:

Due Date\*:

10006 Accounts Receivable

Qty:

Sku	Description	Price	Qty	Total

Subtotal\* \$

Sales Tax  \$

Total\* \$

You can generate invoices in pdf format using this software in order to sell your services. In order to create an invoice, you need to add at least 1 customer and at least 1 service to the database following the instructions earlier in this document. You can create an invoice from the Point of Sale tab by selecting Customers>Point of Sale from the top menu and then selecting the New Invoice Button.

In the popup, search for your customer using the search bar in the top left. Once you've found them, select them from the list. Their details will populate the form.

The default status is set to Due. You can change it to Overdue or Paid in the dropdown. If you select Paid, be sure to select the deposit account from the account dropdown.

Select a due date.

Search for services using the top right search bar. Once you have found the service you provided, select it.

Enter a numeric quantity in the Qty field.

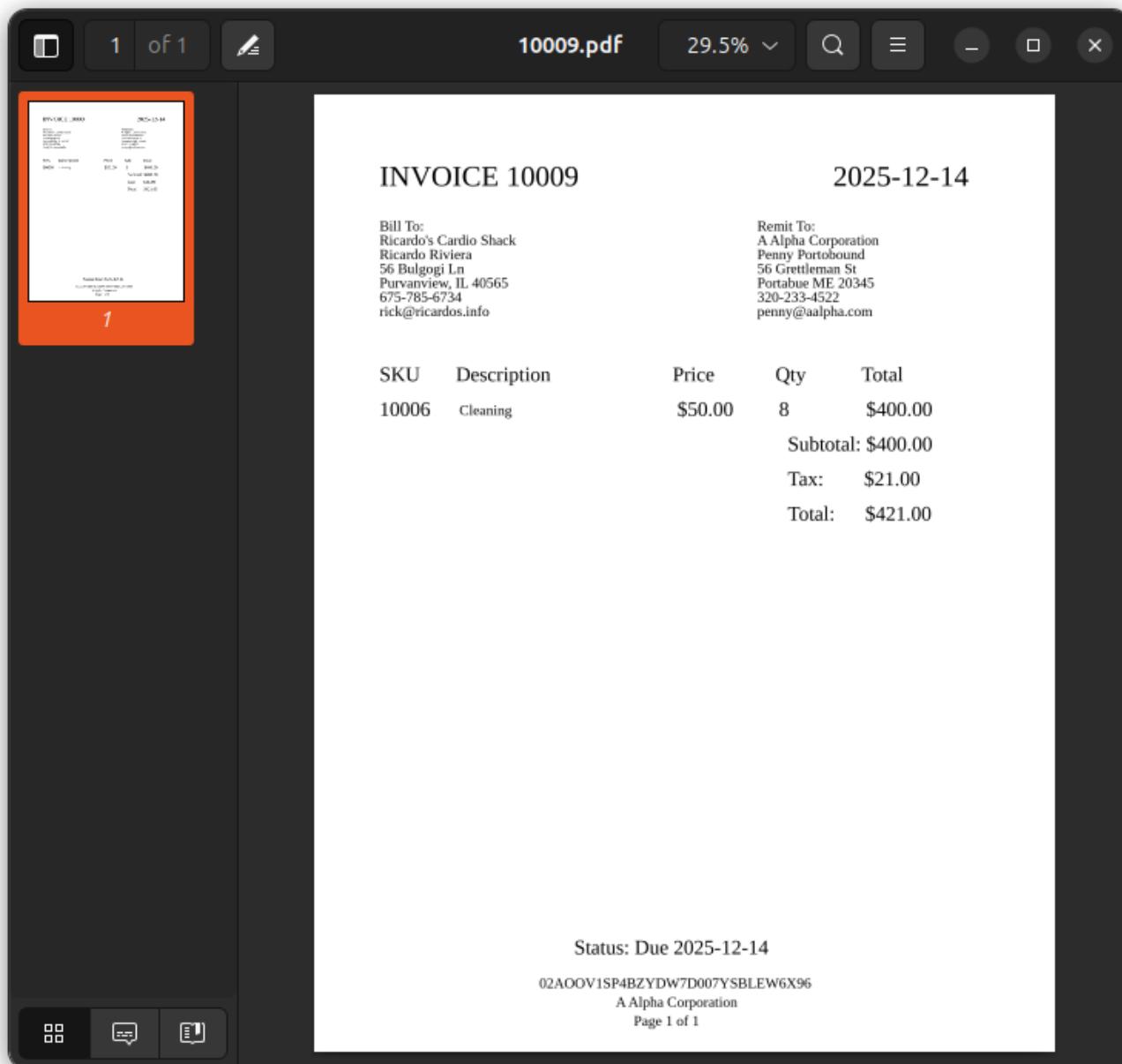
Hit the Add Line Item button to add it to the invoice. Build additional line items the same way.

If you make a mistake, you can remove a line item by selecting it in the line item list and hitting the Remove Line Item button.

You can have up to 10 line items per invoice.

Select the Submit button. If everything is filled out correctly the button will ask Really? Hit the button again to submit your invoice.

The printable invoice will open in your computer's primary pdf reader and its details will appear at the top of the invoice list in the main window.



The printable invoice is saved in the Invoices folder inside your Receipts folder.

## Reviewing Invoice Transactions

Iceberg automatically creates transactions to track the income you receive from invoices. You can review these transactions from the Ledger tab by selecting Ledger>View Ledger from the top menu.

Filter the transaction list by entering "Invoice #####" in the search bar where ##### is your invoice number.

Select a transaction from the list to view its details.

The transactions created by the invoicing system depend on several specific accounts. This includes account 10006 Accounts Receivable, 13003 Sales Tax Payable, and 15001 Sales. These accounts should not be replaced in your chart of accounts.

## Updating Invoice Status

You can update the status of your invoice from the Customers>Point of Sale tab.

Select your invoice from the list.

Select the Edit Invoice button to unlock the status field.

Update the status.

Select the Save Invoice button.

If you select Paid on a previously Due or Overdue invoice, the system will ask for a payment account where you received the money and add transactions as appropriate. Similarly, if you refund a previously Paid invoice, it will ask for a payment account that acted as the source of the refund and add those transactions. Finally, if you Cancel a Due or Overdue Invoice, it will add transactions to cancel out the original transactions generated by the invoice.