

Findroids Excel Add-In Documentation

Project Overview

Findroids Excel Add-In is a powerful Microsoft Office Add-In that enhances Excel functionality by providing advanced data manipulation and analysis capabilities. The add-in is designed to help users efficiently work with financial data and perform complex operations within Excel.

Technical Stack

Core Technologies

- **TypeScript** - Primary programming language
- **React** - Frontend framework (v18.2.0)
- **Office.js** - Microsoft Office Add-in API
- **Webpack** - Module bundler and development server

UI Frameworks and Libraries

- **Fluent UI React** (@fluentui/react-components v9.46.4) - Microsoft's design system
- **Material-UI** (@mui/material v5.15.10) - Additional UI components
- **Emotion** - CSS-in-JS styling solution
 - @emotion/react v11.11.3
 - @emotion/styled v11.11.0

State Management

- **Zustand** (v5.0.3) - Lightweight state management solution

Development Tools

- **Babel** - JavaScript/TypeScript compiler
 - @babel/core v7.24.0
 - @babel/preset-env v7.26.9
 - @babel/preset-typescript v7.23.3
- **ESLint** - Code linting with Office Add-ins specific rules
- **Prettier** - Code formatting
- **TypeScript** (v5.4.2) - Type checking and compilation

Development Environment

- **webpack-dev-server** - Development server with hot reloading
- **Office Add-in DevTools**
 - office-addin-debugging
 - office-addin-dev-certs
 - office-addin-manifest
 - office-addin-lint

Backend Documentation

Backend Technical Stack

Core Technologies

- **Node.js** (v18.x) - Runtime environment
- **Express.js** (v4.18.x) - Web application framework
- **TypeScript** (v5.4.x) - Type-safe development

Database & Backend-as-a-Service

- **Supabase** - Open source Firebase alternative
 - PostgreSQL database with real-time capabilities
 - Built-in authentication and user management
 - Row Level Security (RLS) for data protection
 - Real-time subscriptions
 - Auto-generated APIs
 - Database backups and point-in-time recovery
 - Storage for files and media
 - Edge Functions for serverless computing

Authentication & Security

- **JSON Web Tokens (JWT)** - For secure authentication
- **bcrypt** - Password hashing
- **helmet** - HTTP security headers
- **cors** - Cross-Origin Resource Sharing

Testing & Quality Assurance

- **Jest** - Unit and integration testing
- **Supertest** - API endpoint testing
- **ESLint** - Code quality and style enforcement
- **Prettier** - Code formatting

Development Tools

- **nodemon** - Development server with hot reload
- **ts-node** - TypeScript execution environment
- **dotenv** - Environment variable management
- **winston** - Logging framework

API Documentation

- **Swagger/OpenAPI** - API documentation
- **JSDoc** - Code documentation

Deployment & DevOps

- **Docker** - Containerization
- **PM2** - Process management
- **GitHub Actions** - CI/CD pipeline
- **Azure App Service** - Cloud hosting platform

System Requirements

- Node.js 18.x or higher
- Supabase PostgreSQL database
- NPM or Yarn package manager
- Docker (optional, for containerization)

Development Setup

1. Install dependencies:

```
npm install
```

2. Configure environment variables:

```
cp .env.example .env
```

3. Start Supabase service
4. Run development server:

```
npm run dev
```

Build and Deployment

- Development build:

```
npm run build:dev
```

- Production build:

```
npm run build
```

- Docker build:

```
docker build -t findroids-api .
```

Project Structure

```
|— assets/           # Static assets
|— src/             # Source code
|— .vscode/         # VS Code configuration
|— manifest.xml     # Add-in manifest
|— webpack.config.js # Webpack configuration
|— package.json     # Project dependencies
|— tsconfig.json    # TypeScript configuration
|— babel.config.json # Babel configuration
```

Development Setup

Prerequisites

- Node.js (Latest LTS version recommended)
- Microsoft Excel (Desktop or Online)
- Visual Studio Code (recommended)

Installation

1. Clone the repository
2. Install dependencies:

```
npm install
```

3. Start the development server:

```
npm start
```

Available Scripts

- `npm run build` - Production build
- `npm run build:dev` - Development build
- `npm start` - Start development server
- `npm run lint` - Run linting checks
- `npm run lint:fix` - Fix linting issues
- `npm run validate` - Validate the manifest file

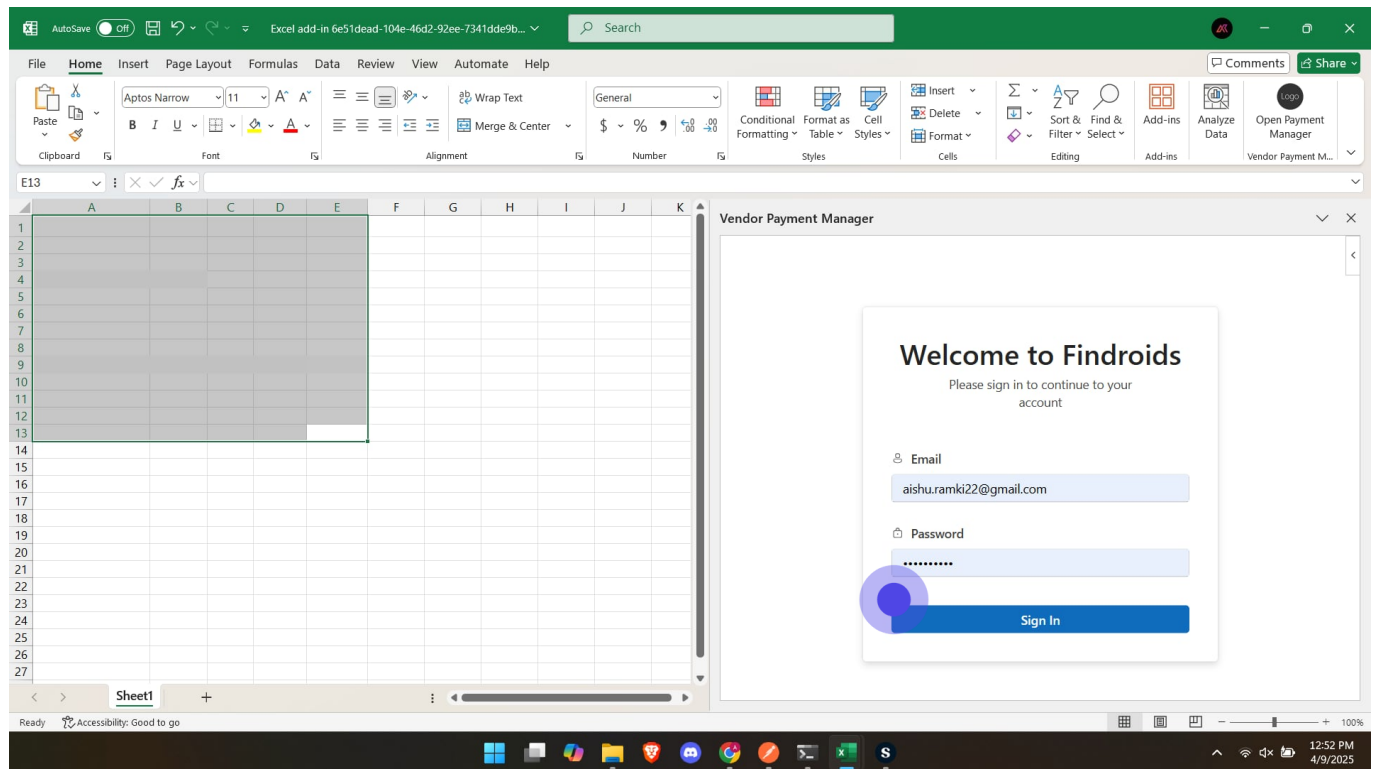
Browser Support

The add-in supports:

- Latest 2 versions of modern browsers
- Internet Explorer 11

User Interface and Features

1. Authentication Screen



The initial screen users encounter is the authentication interface, which includes:

Components:

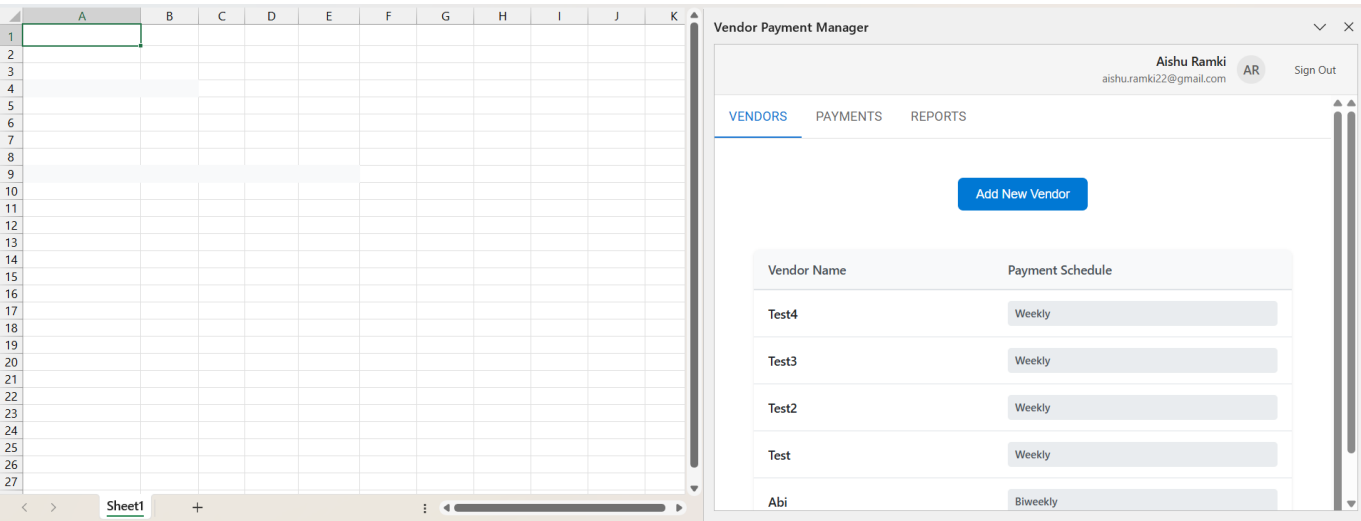
- **Welcome Header:** Displays "Welcome to Findroids"
- **Sign-in Form:**
 - Email input field
 - Password input field (secured)
 - Sign In button with modern design
- **User Experience:**
 - Clean, minimalist design
 - Responsive layout
 - Clear input validation
 - Professional color scheme matching Microsoft Office theme

Security Features:

- Secure password field with masked input
- Email validation
- Protected authentication flow

The login screen ensures secure access to the Findroids functionality while maintaining a professional and user-friendly interface consistent with Microsoft Office design principles.

2. Main Dashboard



The main dashboard provides a comprehensive interface for managing vendor payments with the following features:

Header Components:

- **User Profile Section:**
 - Displays user name and email
 - User initials avatar (AR)
 - Sign Out button
- **Navigation Tabs:**
 - VENDORS (default active tab)
 - PAYMENTS
 - REPORTS

3. Vendor Management

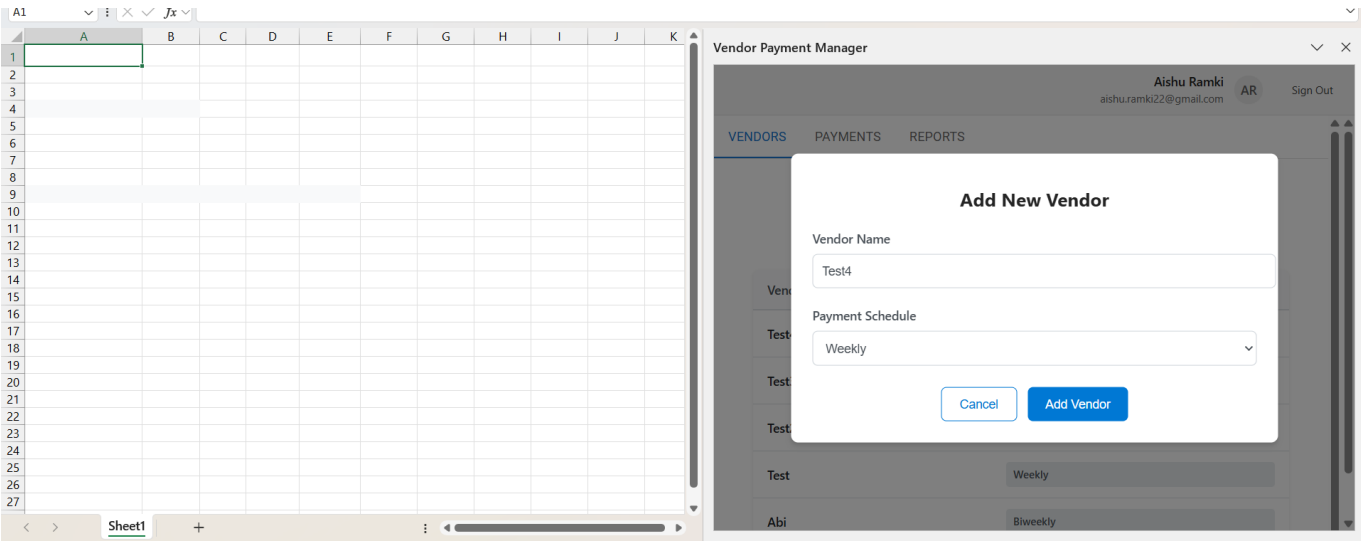
The Vendors tab provides a complete vendor management system:

Vendor List View:

- **Column Headers:**
 - Vendor Name
 - Payment Schedule
- **List Features:**
 - Sortable columns
 - Clear visibility of payment schedules
 - Easy-to-scan layout
- **Payment Schedule Options:**
 - Weekly
 - Biweekly

- (Other customizable options)

Add New Vendor



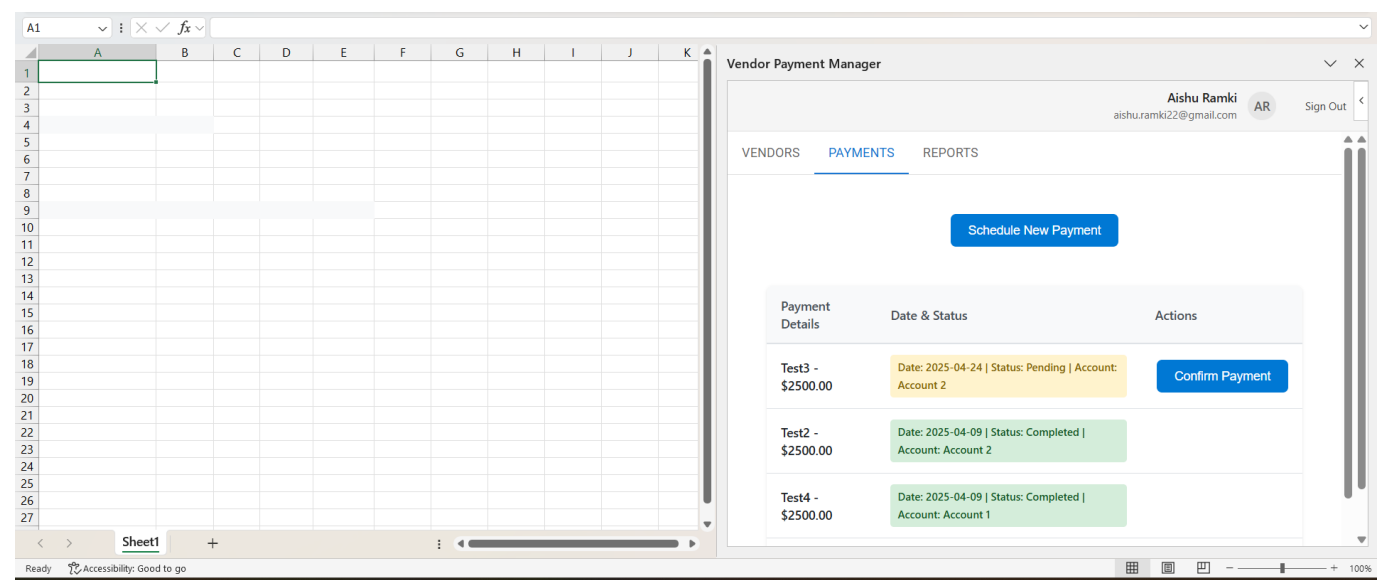
The "Add New Vendor" functionality includes:

- **Action Button:**
 - Prominent "Add New Vendor" button
 - Positioned for easy access
- **Modal Dialog:**
 - Clean, focused interface
 - Form Fields:
 - Vendor Name (text input)
 - Payment Schedule (dropdown)
 - Weekly
 - Biweekly
 - (Other options)
 - Action Buttons:
 - "Add Vendor" (primary action)
 - "Cancel" (secondary action)

User Experience Features:

- Responsive and fluid interface
- Clear visual hierarchy
- Consistent Microsoft Office design language
- Easy navigation between different sections
- Intuitive vendor management workflows

4. Payment Management

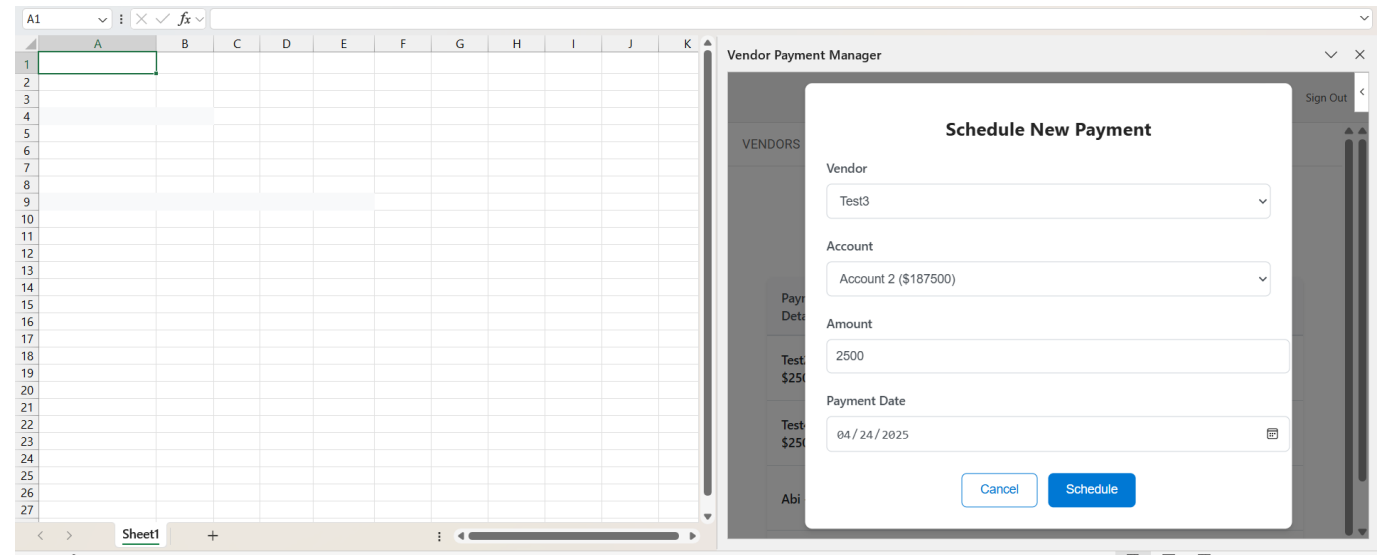


The Payments tab provides a comprehensive payment management system with the following features:

Payment List View:

- **Column Headers:**
 - Payment Details (Vendor name and amount)
 - Date & Status
 - Actions
- **Payment Information Display:**
 - Vendor name with payment amount (e.g., "Test3 - \$2500.00")
 - Date, Status, and Account information
 - Color-coded status indicators:
 - Yellow background for Pending payments
 - Green background for Completed payments

Schedule New Payment



The "Schedule New Payment" functionality includes:

- **Action Button:**
 - Prominent "Schedule New Payment" button
 - Positioned at the top of the payments list
- **Modal Dialog:**
 - Form Fields:
 - Vendor (dropdown selection)
 - Account (dropdown with balance display)
 - Amount (numeric input)
 - Payment Date (date picker)
 - Action Buttons:
 - "Schedule" (primary action)
 - "Cancel" (secondary action)

Payment Actions

- **Confirm Payment:**
 - Available for pending payments
 - Clear action button for each pending payment
 - Updates payment status upon confirmation

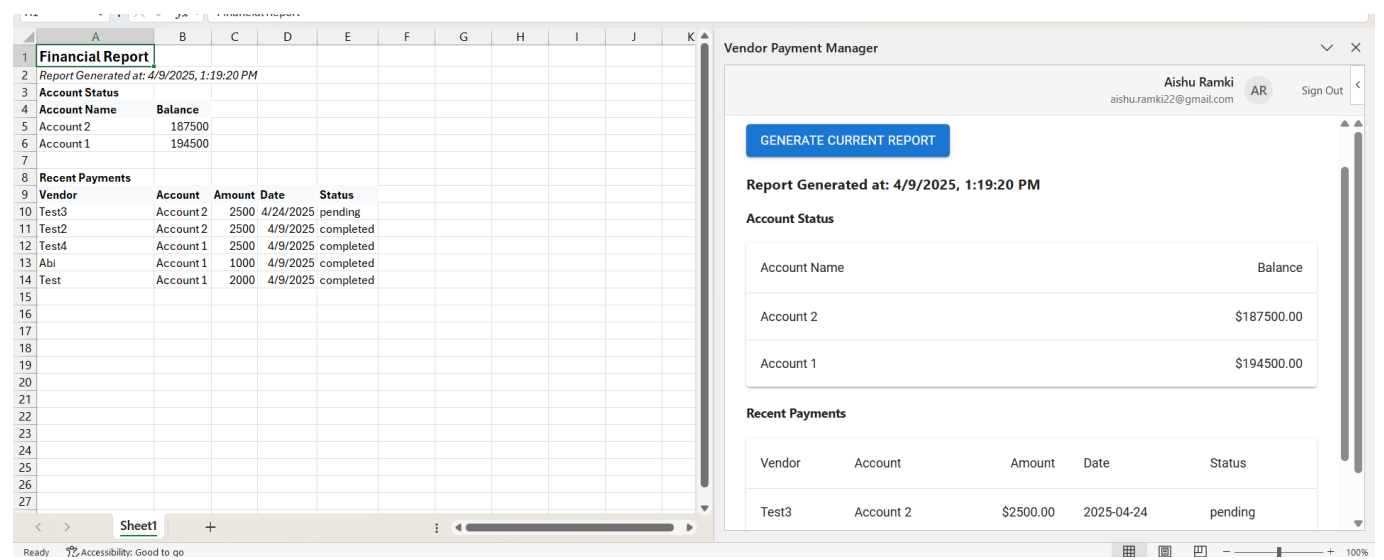
Payment Status Features:

- **Status Types:**
 - Pending: Awaiting confirmation
 - Completed: Successfully processed
- **Status Information:**
 - Payment date
 - Current status
 - Associated account
- **Visual Indicators:**
 - Distinct styling for different payment states
 - Clear action buttons based on payment status

User Experience Features:

- Intuitive payment scheduling workflow
- Clear payment status visualization
- Easy-to-use date selection
- Account balance visibility
- Streamlined payment confirmation process
- Responsive and accessible interface

5. Financial Reports



The Reports tab provides comprehensive financial reporting capabilities with dual-view functionality (Task Pane and Excel Sheet).

Report Generation

- **Action Button:**
 - "GENERATE CURRENT REPORT" button
 - Generates real-time financial data
 - Timestamp indication of report generation

Report Components

Account Status Section:

- **Account Overview Table:**
 - Account Name column
 - Balance column with currency formatting
 - Clear presentation of multiple accounts
 - Current balance for each account

Recent Payments Section:

- **Detailed Payment History Table:**
 - Columns:
 - Vendor
 - Account
 - Amount
 - Date
 - Status
 - Comprehensive view of all transactions
 - Status indicators for payment states

Dual-View Functionality

Task Pane View:

- Clean, organized layout
- Real-time data display
- Easy-to-read formatting
- Scrollable interface for viewing all data

Excel Sheet Generation:

- **Automated Sheet Creation:**
 - Creates "Financial Report" worksheet
 - Formatted tables and headers
 - Professional spreadsheet layout
- **Data Organization:**
 - Account status section with balances
 - Recent payments table with complete transaction history
 - Timestamp of report generation
 - Consistent formatting with currency values

User Experience Features:

- One-click report generation
- Synchronized data between task pane and Excel
- Professional financial formatting
- Clear timestamp for report tracking
- Easy-to-read tabular format
- Instant access to financial overview
- Exportable Excel format for further analysis