



# MEMBERSHIP GUI APP DOCUMENTATION

Overview & Guide

## ABSTRACT

The Member GUI System Application functions to easily keep track of and manage Members and their Info.

EyeCode4You

Systems Administrator

## High Level Information

The “Members GUI App” was developed with Python with the aim of creating a comprehensive and easy-to-use management interface for our Membership services.

### \*\*\*Python Dependencies:

- tkinter
- sqlite3 (Intrinsic)
- docxtpl
- docx2pdf

The main structure of the app is as follows:

- Member data (Name, Phone, Email, Address, Nationality, Member Category ) is contained within SQLite3 local database file
- This database is loaded into Python GUI app (TKinter)
- Python GUI app displays database entries with functionality to:
  - Search through database
  - Update, Add, and Delete entries
  - Export data from database to PDF file for sharing (Web, email, etc...)

Program consists of various Python scripts and resource files:

- ***members\_gui.py*** (Main Program): Displays Python GUI for interacting with database
- ***init\_member\_db.py***: Creates the initial database file for use within main program.
- ***export\_members\_pdf.py***: Convert members database to pdf
- ***schema.sql***: SQL structure of database
- ***member-list-template.docx***: Word doc template for formatting PDF created
- ***members.db***: Members database

## Example Run-Through of Program

The interface is divided into 3 parts: Member List, Options, and Member Data

FFireland Membership Management System

ID	Member Name	Phone	Email	Address	Nationality	Category	Company
1	Sample User1	0123456789	samu1@gmail.com	Resotto	Aberdeen		Tube Men Ltd.
2	Sample User2	123456789	samu2@gmail.com	Resotto	Aberdeen	A	Tube Men Ltd.
3	Sample User3	123456789	samu3@gmail.com	Resotto	Aberdeen	D	Tube Men Ltd.
4	Sample User4	123456789	samu4@gmail.com	Village Square	Morocco	B	GreenEggs&Ham Ltd.
5	SearchExample	0987654321	search@gmail.com	Parts Unknown	Unknown	C	Mystery Inc.

Options

Search:    Options:

Member Data

Member ID:  Member Company:

Member Name:  Member Position:

Member Phone:  Member AccountName:

Member Email:  Member IBAN:

Member Address:  Member BIC:

Member Nationality:  Member Created:

Member Category:  Member Expiry:

Double-Clicking an entry populates the Member Data fields

FFireland Membership Management System

ID	Member Name	Phone	Email	Address	Nationality	Category	Company
1	Sample User1	0123456789	samu1@gmail.com	Resotto	Aberdeen		Tube Men Ltd.
2	Sample User2	123456789	samu2@gmail.com	Resotto	Aberdeen	A	Tube Men Ltd.
3	Sample User3	123456789	samu3@gmail.com	Resotto	Aberdeen	D	Tube Men Ltd.
4	Sample User4	123456789	samu4@gmail.com	Village Square	Morocco	B	GreenEggs&Ham Ltd.
5	SearchExample	0987654321	search@gmail.com	Parts Unknown	Unknown	C	Mystery Inc.

Options

Search:    Options:

Member Data

Member ID:  Member Company:

Member Name:  Member Position:

Member Phone:  Member AccountName:

Member Email:  Member IBAN:

Member Address:  Member BIC:

Member Nationality:  Member Created:

Member Category:  Member Expiry:

**SEARCHING:** To search for a specific member, enter their title and click the search button. To clear the filtered view, press the clear button.

FFireland Membership Management System

Members Database

ID	Member Name	Phone	Email	Address	Nationality	Category	Company
5	SearchExample	0987654321	search@gmail.com	Parts Unknown	Unknown	C	Mystery Inc.

Options:

Search:  Search Clear Options: Export as PDF Import Member from PDF

**UPDATING:** Double-click the entry to change. Fill the member data entries with updated information and select “Update” (Note: ID cannot be changed & remember to select Save so changes take effect!)

FFireland Membership Management System

ID	Member Name	Phone	Email	Address	Nationality	Category	Company
1	Sample User1	0123456789	samu1@gmail.com	Resotto	Aberdeen		Tube Men Ltd.
2	Sample User2	123456789	samu2@gmail.com	Resotto	Aberdeen	A	Tube Men Ltd.
3	Sample User3	123456789	samu3@gmail.com	Resotto	Aberdeen	D	Tube Men Ltd.
4	Sample User4	123456789	samu4@gmail.com	Village Square	Morocco	B	GreenEggs&Ham Ltd.
5	SearchExample	0987654321	search@gmail.com	Parts Unknown	Unknown	C	Mystery Inc.

Options

Search:  Search Clear Options: Export as PDF Import Member from PDF

Member Data

Member ID: 2 Member Company: Tube Men Ltd.

Member Name: Updated User2 Member Position: VP

Member Phone: 1111111111 Member AccountName: None

Member Email: Updatedsamu2@gmail Member IBAN: None

Member Address: \$Resotto\$ Member BIC: None

Member Nationality: ^Aberdeen^ Member Created: 2021-05-31

Member Category: A Member Expiry: n/a Clear All

Update Add New Delete Save Changes

Once the update is confirmed you will see the updated entry in Member List

FFireland Membership Management System

ID	Member Name	Phone	Email	Address	Nationality	Category	Company
1	Sample User1	0123456789	samu1@gmail.com	Resotto	Aberdeen		Tube Men Ltd.
2	Updated User2	1111111111	Updatedsamu2@gmail.com	\$Resotto\$	^Aberdeen^	A	Tube Men Ltd.
3	Sample User3	123456789	samu3@gmail.com	Resotto	Aberdeen	D	Tube Men Ltd.
4	Sample User4	123456789	samu4@gmail.com	Village Square	Morocco	B	GreenEggs&Ham Ltd.
5	SearchExample	0987654321	search@gmail.com	Parts Unknown	Unknown	C	Mystery Inc.

Options

Search:  Search Clear Options: Export as PDF Import Member from PDF

Member Data

Member ID: 2 Member Company: Tube Men Ltd.

Member Name: Updated User2 Member Position: VP

Member Phone: 1111111111 Member AccountName: None

Member Email: Updatedsamu2@gmail Member IBAN: None

Member Address: \$Resotto\$ Member BIC: None

Member Nationality: ^Aberdeen^ Member Created: 2021-05-31

Member Category: A Member Expiry: n/a Clear All

Update Add New Delete Save Changes

**ADDING:** To add a new entry to the list, fill in details in Member Data section and select “Add New” button. The newly created entry will be added to the end of the list. (Note: ID is incremented from current highest in list and cannot be changed – can be left blank), Remember to select Save Changes!

Options

Search:    Options:

Member Data

Member ID:

Member Company:

Member Name:

Member Position:

Member Phone:

Member AccountName:

Member Email:

Member IBAN:

Member Address:

Member BIC:

Member Nationality:

Member Created:

Member Category:

Member Expiry:

FFireland Membership Management System

Members Database

ID	Member Name	Phone	Email	Address	Nationality	Category	Company
1	Sample User1	0123456789	samu1@gmail.com	Resotto	Aberdeen		Tube Men Ltd.
2	Updated User2	11111111111	Updatedsamu2@gmail.com	\$Resotto\$	^Aberdeen^	A	Tube Men Ltd.
3	Sample User3	123456789	samu3@gmail.com	Resotto	Aberdeen	D	Tube Men Ltd.
4	Sample User4	123456789	samu4@gmail.com	Villiage Square	Morocco	B	GreenEggs&Ham Ltd.
5	SearchExample	0987654321	search@gmail.com	Parts Unknown	Unknown	C	Mystery Inc.
6	New User	0123454321	newuser@gmail.com	new street, new lane	Mongolian	E	News To Me Ltd.

Options

Search:    Options:

Member Data

Member ID:

Member Company:

Member Name:

Member Position:

Member Phone:

Member AccountName:

Member Email:

Member IBAN:

Member Address:

Member BIC:

Member Nationality:

Member Created:

Member Category:

Member Expiry:

## DELETING: Double-click the entry to delete and select "Delete" button

FFireland Membership Management System

Members Database

ID	Member Name	Phone	Email	Address	Nationality	Category	Company
1	Sample User1	0123456789	samu1@gmail.com	Resotto	Aberdeen		Tube Men Ltd.
2	Updated User2	11111111111	Updatedsamu2@gmail.com	\$Resotto\$	^Aberdeen^	A	Tube Men Ltd.
3	Sample User3	123456789	samu3@gmail.com	Resotto	Aberdeen	D	Tube Men Ltd.
4	Sample User4	123456789	samu4@gmail.com	Village Square	Morocco	B	GreenEggs&Ham Ltd.
5	SearchExample	0987654321	search@gmail.com	Parts Unknown	Unknown	C	Mystery Inc.
6	New User	0123454321	newuser@gmail.com	new street, new lane	Mongolian	E	News To Me Ltd.

Options

Search:    Options:

Member Data

Member ID:  Member Company:

Member Name:  Member Position:

Member Phone:  Member AccountName:

Member Email:  Member IBAN:

Member Address:  Member BIC:

Member Nationality:  Member Created:

Member Category:  Member Expiry:

**SAVING CHANGES:** Any changes made within this interface need to be saved before exporting or closing the application!!!

FFireland Library System

Book List

ID	Book Title	Book Author	Availability
290	Native American Songs & Poems	Dover	yes
291	Astrobiology	Andrew May	yes
292	The Vikings	Jonathan Clements	yes
293	The Keelings Book of Fruit	Keelings	yes
294	Organic Gardening Techniques	Nick Hamilton	yes
295	The Rock & Water Garden Expert	D. G. Hessayon	yes
296	Your Gardening Questions Answered	Reader's Digest	yes
297	Grow Your Own	Marshall Cavendish	yes
298	Successful Gardening 1	N/A	yes
299	Successful Gardening 5	N/A	yes
300	The Gardening Year	Caxton	yes
301	Empowering Communities	The Cavan Centre	yes
302	Seeing the Wood and the Trees	Forest Friends Ireland	yes
303	The Universe-new text	new-text	yes

Options

Search:    Options:

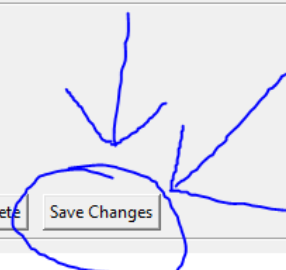
Book Data

Book ID:

Book Title:

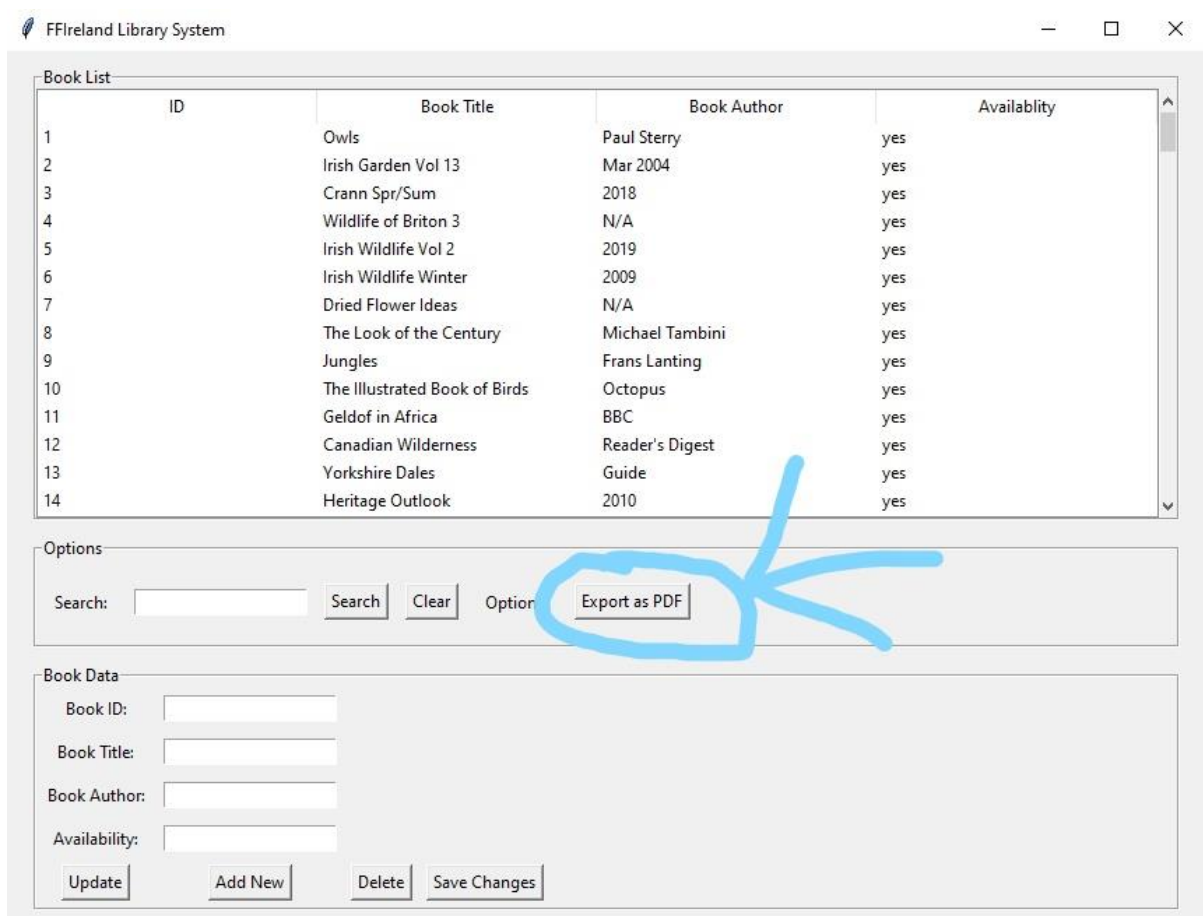
Book Author:

Availability:





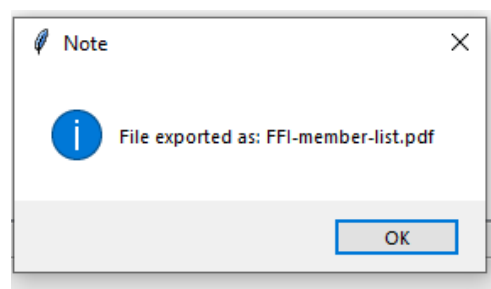
**EXPORTING TO PDF:** To export all data from the database to a PDF file, ensure all changes have been made & saved and select “Export as PDF”



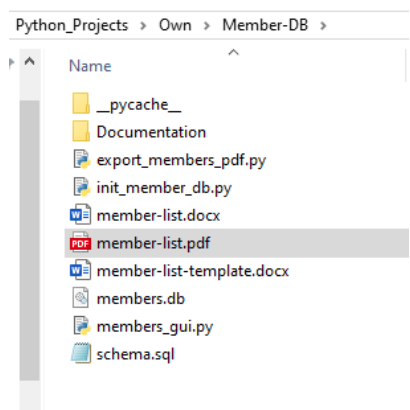
The screenshot shows the FFIreland Library System interface. At the top, there's a title bar with the text 'FFIreland Library System'. Below it is a 'Book List' table with columns: ID, Book Title, Book Author, and Availability. The table contains 14 rows of book data. Below the table is an 'Options' section with a search bar, 'Search', 'Clear', and 'Option' buttons. The 'Export as PDF' button is highlighted with a blue circle and a blue arrow pointing to it. Below the 'Options' section is a 'Book Data' section with input fields for Book ID, Book Title, Book Author, and Availability, and buttons for 'Update', 'Add New', 'Delete', and 'Save Changes'.

ID	Book Title	Book Author	Availability
1	Owls	Paul Sterry	yes
2	Irish Garden Vol 13	Mar 2004	yes
3	Crann Spr/Sum	2018	yes
4	Wildlife of Briton 3	N/A	yes
5	Irish Wildlife Vol 2	2019	yes
6	Irish Wildlife Winter	2009	yes
7	Dried Flower Ideas	N/A	yes
8	The Look of the Century	Michael Tambini	yes
9	Jungles	Frans Lanting	yes
10	The Illustrated Book of Birds	Octopus	yes
11	Geldof in Africa	BBC	yes
12	Canadian Wilderness	Reader's Digest	yes
13	Yorkshire Dales	Guide	yes
14	Heritage Outlook	2010	yes

After a second you should get a success message:



Browse to the application directory to retrieve the created PDF file:



## Forest Friends Ireland Member List

Mon May 31 16:22:42 2021

Member Id	Member Name	Phone	Email	Address	Nationality	Category	Company	Position	B. Account	IBAN	BIC	Since	Expiry
1	Sample User1	0123456789	samu1@gmail.com	Resotto	Aberdeen		Tube Men Ltd.	Director	None	None	None	2021-05-31	n/a
2	Updated User2	1111111111	Updateds amu2@gmail.com	\$Resotto\$	^Aberdeen^	A	Tube Men Ltd.	VP	None	None	None	2021-05-31	n/a
3	Sample User3	123456789	samu3@gmail.com	Resotto	Aberdeen	D	Tube Men Ltd.	VP	None	None	None	2021-05-31	n/a
4	Sample User4	123456789	samu4@gmail.com	Village Square	Morocco	B	GreenEggs Ltd.	Taster	None	None	None	2021-05-31	5 Years
6	New User	0123454321	newuser@gmail.com	new street, new lane	Mongolian	E	News To Me Ltd.	Writer				2021-05-31	5 Years

Update – 30/05/2021

**IMPORTING:** Added feature where we can import a completed membership pdf (Available from website <https://forestfriendsapps.wordpress.com/membership/>) and add it to the application.

First the applicant would download the PDF form from the site


## Membership Forms

Below are the membership forms for Forest Friends Ireland & Forest Friends International respectively:

[FFIreland Membership Application Form](#)

**\*Once completed email to: [info@forestfriends.ie](mailto:info@forestfriends.ie)**

They would then open the file (Will be blank at first)

is PC > Downloads	
Name	Date modified
▼ Today (1)	
 ffeire-membership-application-form-2.pdf	30/05/2021 15:50



**Forest Friends Ireland**  
**INDIVIDUAL MEMBERSHIP APPLICATION FORM**  
(Please email completed form to [info@forestfriends.ie](mailto:info@forestfriends.ie))

**> Membership Applicant Details**

Full name	<input type="text"/>
Address (including Postcode)	<input type="text"/>
Telephone	<input type="text"/>
Email Address	<input type="text"/>
Nationality	<input type="text"/>
Company/Org (optional)	<input type="text"/>
Position	<input type="text"/>

They Would then fill in their details and email the completed form back to us



**Forest Friends Ireland**  
**INDIVIDUAL MEMBERSHIP APPLICATION FORM**  
(Please email completed form to [info@forestfriends.ie](mailto:info@forestfriends.ie))

**> Membership Applicant Details**

Full name	New User From Form
Address (including Postcode)	ABCDEF, GHIJK
Telephone	0123123123
Email Address	formality@hotmail.com
Nationality	Scottish
Company/Org (optional)	Typesetters Incorporated
Position	Clickitty Clacker

**> My Account Details Are:**

Full Name	New User From Form		
IBAN	AB7984773987498237		
BIC	000000	Bank	Typeset Cash Money
Signature	New User From Form	Date	31/05/21

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Forest Friends Ireland

Cairde Na Coille



> **Membership Category/Fees**

- A. Individual Life Membership - €100
- B. Individual 5 Year Membership - €100
- C. Student/Elderly 5 Year Membership - €100
- D. School Membership - €100
- E. Community/Environmental NGO 5 Year Membership - €100
- F. Commercial/Governmental Once Off Membership - €100

Category You Wish to Apply For:

Once they send via email, simply open up the PDF through the member\_gui app and select **“Import”**

FFireland Membership Management System

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Members Database

ID	Member Name	Phone	Email	Address	Nationality	Category	Company
1	Sample User1	0123456789	samu1@gmail.com	Resotto	Aberdeen		Tube Men Ltd.
2	Updated User2	1111111111	Updatesamu2@gmail.com	\$Resotto\$	^Aberdeen^	A	Tube Men Ltd.
3	Sample User3	123456789	samu3@gmail.com	Resotto	Aberdeen	D	Tube Men Ltd.
4	Sample User4	123456789	samu4@gmail.com	Village Square	Morocco	B	GreenEggs&Ham Ltd.
6	New User	0123454321	newuser@gmail.com	new street, new lane	Mongolian	E	News To Me Ltd.

Options

Search:    Options:

Member Data

Member ID:	<input type="text"/>	Member Company:	<input type="text"/>
Member Name:	<input type="text"/>	Member Position:	<input type="text"/>
Member Phone:	<input type="text"/>	Member AccountName:	<input type="text"/>
Member Email:	<input type="text"/>	Member IBAN:	<input type="text"/>
Member Address:	<input type="text"/>	Member BIC:	<input type="text"/>
Member Nationality:	<input type="text"/>	Member Created:	<input type="text"/>
Member Category:	<input type="text"/>	Member Expiry:	<input type="text"/>
<input type="button" value="Clear All"/>			
<input type="button" value="Update"/>	<input type="button" value="Add New"/>	<input type="button" value="Delete"/>	<input type="button" value="Save Changes"/>

A file dialog will popup, browse to the member PDF and select **“open”**

Once opened, the **“Member Data”** section will be filled with info from the PDF, select **“Add New”** to add this new member to the database

FFireland Membership Management System

Members Database

ID	Member Name	Phone	Email	Address	Nationality	Category	Company
1	Sample User1	0123456789	samu1@gmail.com	Resotto	Aberdeen		Tube Men Ltd.
2	Updated User2	1111111111	Updatedsamu2@gmail.com	\$Resotto\$	^Aberdeen^	A	Tube Men Ltd.
3	Sample User3	123456789	samu3@gmail.com	Resotto	Aberdeen	D	Tube Men Ltd.
4	Sample User4	123456789	samu4@gmail.com	Village Square	Morocco	B	GreenEggs&Ham Ltd.
6	New User	0123454321	newuser@gmail.com	new street, new lane	Mongolian	E	News To Me Ltd.

Options

Search:    Options:

Member Data

Member ID:  Member Company:

Member Name:  Member Position:

Member Phone:  Member AccountName:

Member Email:  Member IBAN:

Member Address:  Member BIC:

Member Nationality:  Member Created:

Member Category:  Member Expiry:

The new member will then appear inside the database (Don't Forget to Save Changes!)

FFireland Membership Management System

Members Database

ID	Member Name	Phone	Email	Address	Nationality	Category	Company
1	Sample User1	0123456789	samu1@gmail.com	Resotto	Aberdeen		Tube Men Ltd.
2	Updated User2	111111111111	Updatedsamu2@gmail.com	\$Resotto\$	^Aberdeen^	A	Tube Men Ltd.
3	Sample User3	123456789	samu3@gmail.com	Resotto	Aberdeen	D	Tube Men Ltd.
4	Sample User4	123456789	samu4@gmail.com	Village Square	Morocco	B	GreenEggs&Ham Ltd.
6	New User	0123454321	newuser@gmail.com	new street, new lane	Mongolian	E	News To Me Ltd.
7	New User From Form	0123123123	formality@hotmail.com	ABCDEF, GHIJK	Scottish	F	Typesetters Incorporated

Options

Search:    Options:

Member Data

Member ID:  Member Company:

Member Name:  Member Position:

Member Phone:  Member AccountName:

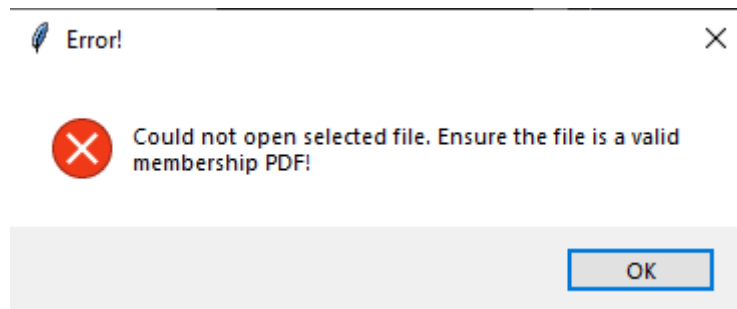
Member Email:  Member IBAN:

Member Address:  Member BIC:

Member Nationality:  Member Created:

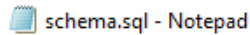
Member Category:  Member Expiry:

If you try to open an invalid PDF, an error message will display





## SQL Schema



```
/*Initial creation scheme for simple database Creation*/
```

```
CREATE TABLE members(  
    id INTEGER PRIMARY KEY AUTOINCREMENT,  
    name VARCHAR(50),  
    phone VARCHAR,  
    email VARCHAR,  
    address VARCHAR,  
    nationality VARCHAR,  
    category CHAR,  
    company VARCHAR,  
    position VARCHAR,  
    accountname VARCHAR,  
    IBAN VARCHAR,  
    BIC VARCHAR,  
    created DATE DEFAULT CURRENT_DATE,  
    expiry VARCHAR  
);
```



Forest Friends Ireland Member List  
 {{datetime}}

Member Id	Member Name	Phone	Email	Address	Nationality	Category	Company	Position	B. Account	IBAN	BIC	Since	Expiry
{%tr for item in table_contents %}													
{item. index}}	{{item.name}}	{{item.phone}}	{{item.email}}	{{item.address}}	{{item.nationality}}	{{item.category}}	{{item.company}}	{{item.position}}	{{item.bank_account_name}}	{{item.iban}}	{{item.bic}}	{{item.created}}	{{item.expired}}
{%tr endfor %}													