Introduction

An association is a way Egyptian people support each other financially with, a group of people form an association or a union by agreeing together on a certain amount of money each of them will pay every month, and the collected money will be received by one of them, and next month another person receives the collected amount and so on, till all of them receive it once. They usually choose one of them to be the administrator of that union, and he is responsible for collecting the money, and delivering it to the recipient of that month.

Association program is a program to help the **administrator** organize his job be creating a table of the members (Members List) with all members information- as sometimes those members do not know each other- and another table showing him the names of the members, and the status whether they paid this month or not and whether the recipient of the month received the money or not.

Members are ordered in the payment table in the order of the recipients.

**Example of a 3 members association payment table**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Month 1 | Month 2 | Month 3 | Received? |
| Dina | N/P | N/P | N/P | N/P |
| Samy | N/P | N/P | N/P | N/P |
| Modo | N/P | N/P | N/P | N/P |

For example, this is an Association of 3 members

The first column shows members’ names.

The rest of columns shows if the member paid for each month or not

The last column shows if the recipient of the month received the collected money or not.

**Testing**

1. **Testing main window**
2. **The number of members fields accepts integer only if not an error msg will be displayed on consol.**

A screenshot of a computer

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1. When clicking on the Create association button
   1. An association object is created with these details.
   2. A screenshot of a computer

      Description automatically generatedA new window opens to add members.

**2. Testing the Members window**

**a. exceptions for leaving text field blank are handled.**

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**b.When you enter the last member according to the number of members you entered the add**

Graphical user interface, application, Word

Description automatically generated**member button gets disabled, and a message saying payment table created appears.**

**c.When you press show Association details it shows asspciation data followed by members list followed by the payment table.**

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**3. Testing Payment window**

**a. A message displayed on the console if no data entered in the text fields.**

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**b.Updating the payment table**

**Enter one of the names in the table**

**The month you want to update or 0 to update the recipient column.**

**Enter paid or received.**

**A screenshot of a computer

Description automatically generatedAnd then view the payment table**

**Another screen shot after updating all first month payments and marking the first member as received**

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