Test Cases

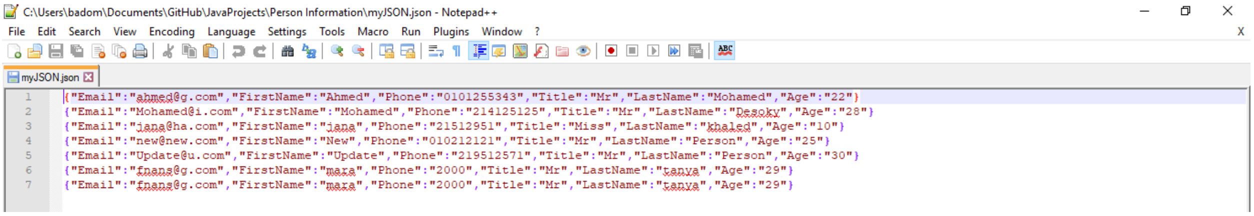
TC#1:

Title: Importing a JSON file through system directory.

Description: the user can simply choose his JSON file through the browsing his system folders.

Precondition: the user should know where is the JSON file?

Assumption: the file should be stored as in key and value pairs.



C:\Users\badom\Documents\GitHub\JavaProjects\Person Information\myJSON.json - Notepad++
File
Edit
Search
View
Encoding
Language
Settings
Tools
Macro
Run
Plugins
Window
?
myJSON.json

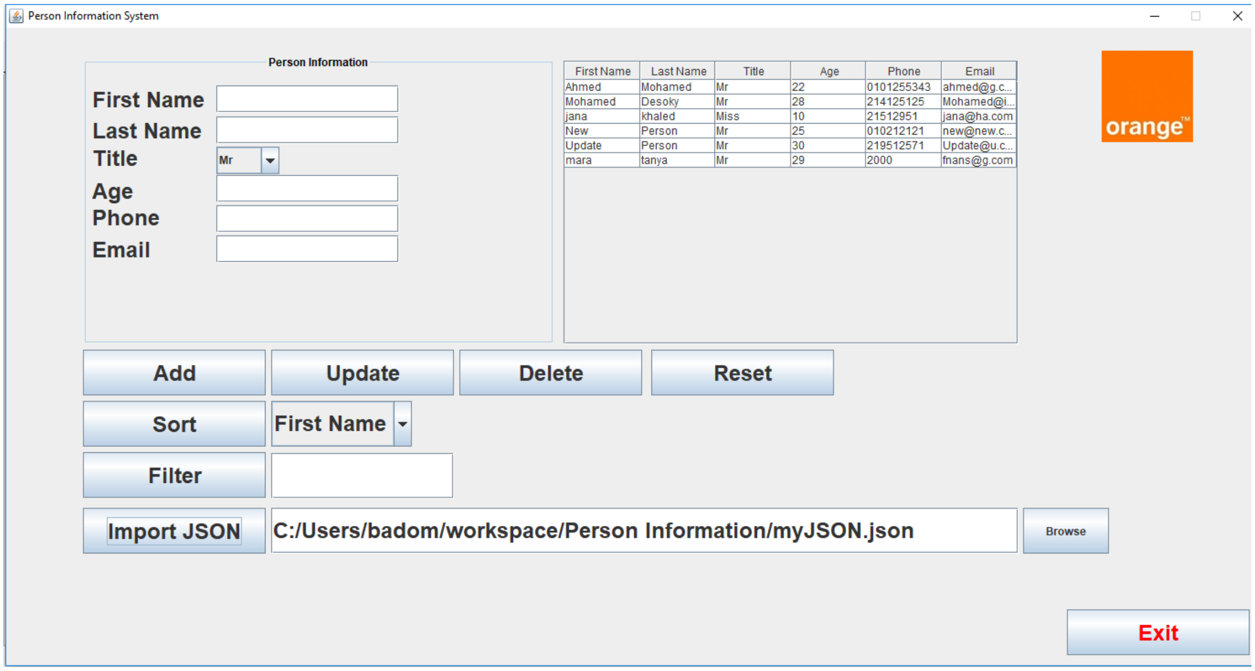
```
{"Email":"ahmed@g.com","FirstName":"Ahmed","Phone":"0101255343","Title":"Mr","LastName":"Mohamed","Age":"22"}
{"Email":"Mohamed@i.com","FirstName":"Mohamed","Phone":"214125125","Title":"Mr","LastName":"Desoky","Age":"28"}
{"Email":"jana@ha.com","FirstName":"jana","Phone":"21512951","Title":"Miss","LastName":"khaled","Age":"10"}
{"Email":"new@new.com","FirstName":"New","Phone":"010212121","Title":"Mr","LastName":"Person","Age":"25"}
{"Email":"Update@u.com","FirstName":"Update","Phone":"219512571","Title":"Mr","LastName":"Person","Age":"30"}
{"Email":"fnans@g.com","FirstName":"mara","Phone":"2000","Title":"Mr","LastName":"tanya","Age":"29"}
{"Email":"fnans@g.com","FirstName":"mara","Phone":"2000","Title":"Mr","LastName":"tanya","Age":"29"}
```

Test Steps:

1. Run the application
2. Click the ‘Browse’ button.
3. Choose your file from the directory.
4. Click the ‘Import’ Button.

Expected Result: A table showing all the records of your JSON file should appear in the right side of the application

Here’s what this test case would look like in the application:



Title: Mr

First Name	Last Name	Title	Age	Phone	Email
Ahmed	Mohamed	Mr	22	0101255343	ahmed@g.c...
Mohamed	Desoky	Mr	28	214125125	Mohamed@i...
jana	khaled	Miss	10	21512951	jana@ha.com
New	Person	Mr	25	010212121	new@new.c...
Update	Person	Mr	30	219512571	Update@u.c...
mara	tanya	Mr	29	2000	fnans@g.com

Sort: First Name

Import JSON: C:/Users/badom/workspace/Person Information/myJSON.json

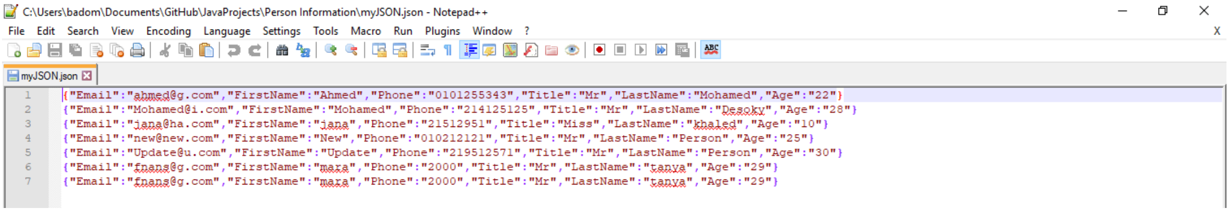
TC#2:

Title: Importing a JSON file through copying and pasting the file path.

Description: the user can write down the path himself in the text field are if he knows it or already copied it he can paste it and go right away.

Precondition: the user should know where is the JSON file?

Assumption: the file should be stored as in key and value pairs.

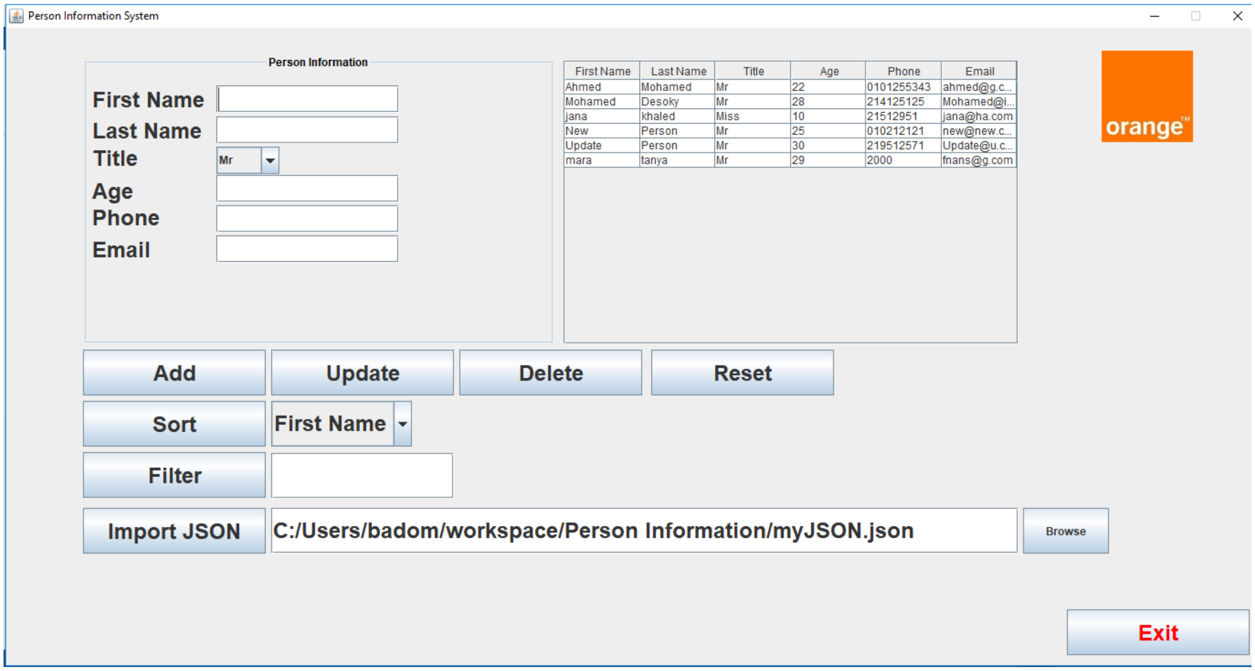

C:\Users\badom\Documents\GitHub\JavaProjects\Person Information\myJSON.json - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?
myJSON.json

```
{"Email":"ahmed@g.com","FirstName":"Ahmed","Phone":"0101255343","Title":"Mr","LastName":"Mohamed","Age":"22"}
{"Email":"Mohamed@i.com","FirstName":"Mohamed","Phone":"214125125","Title":"Mr","LastName":"Desoky","Age":"28"}
{"Email":"jana@ha.com","FirstName":"jana","Phone":"21512951","Title":"Miss","LastName":"khaled","Age":"10"}
{"Email":"new@new.com","FirstName":"New","Phone":"010212121","Title":"Mr","LastName":"Person","Age":"25"}
{"Email":"Update@u.com","FirstName":"Update","Phone":"219512571","Title":"Mr","LastName":"Person","Age":"30"}
{"Email":"fnans@g.com","FirstName":"mara","Phone":"2000","Title":"Mr","LastName":"tanya","Age":"29"}
{"Email":"fnans@g.com","FirstName":"mara","Phone":"2000","Title":"Mr","LastName":"tanya","Age":"29"}
```

Test Steps:

1. Run the application
2. Write down the path in the 'Text Field' next to the 'Import' button.
3. Click the 'Import' Button.

Expected Result: A table showing all the records of your JSON file should appear in the right side of the application.



First Name	Last Name	Title	Age	Phone	Email
Ahmed	Mohamed	Mr	22	0101255343	ahmed@g.c...
Mohamed	Desoky	Mr	28	214125125	Mohamed@i...
jana	khaled	Miss	10	21512951	jana@ha.com
New	Person	Mr	25	010212121	new@new.c...
Update	Person	Mr	30	219512571	Update@u.c...
mara	tanya	Mr	29	2000	fnans@g.com

C:/Users/badom/workspace/Person Information/myJSON.json

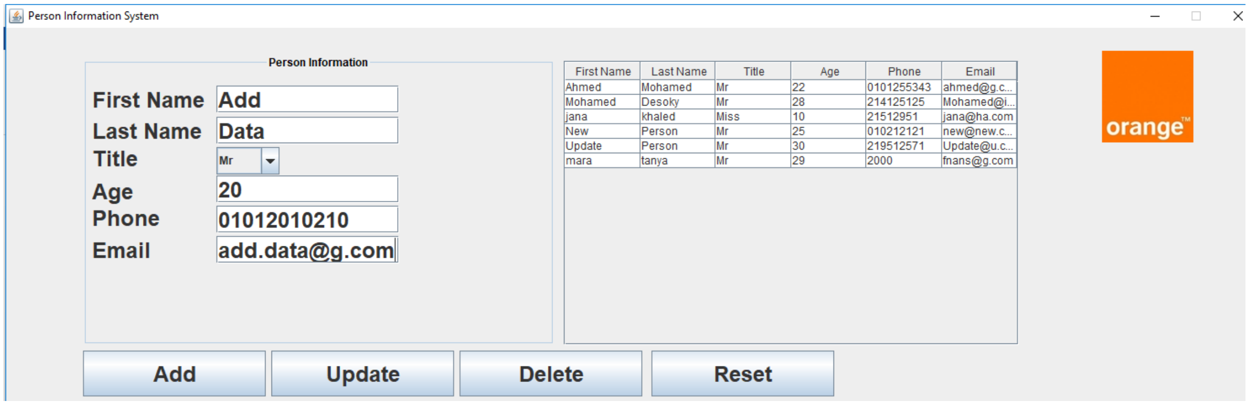
TC#3:

Title: Adding a new person information.

Description: the user can add any information about a person he wants.

Precondition: the user should have imported the JSON file already.

Assumption: 'First Name', 'Last Name' should be alphabetical, 'Phone, Age' should be numeric and the email can be in any format.



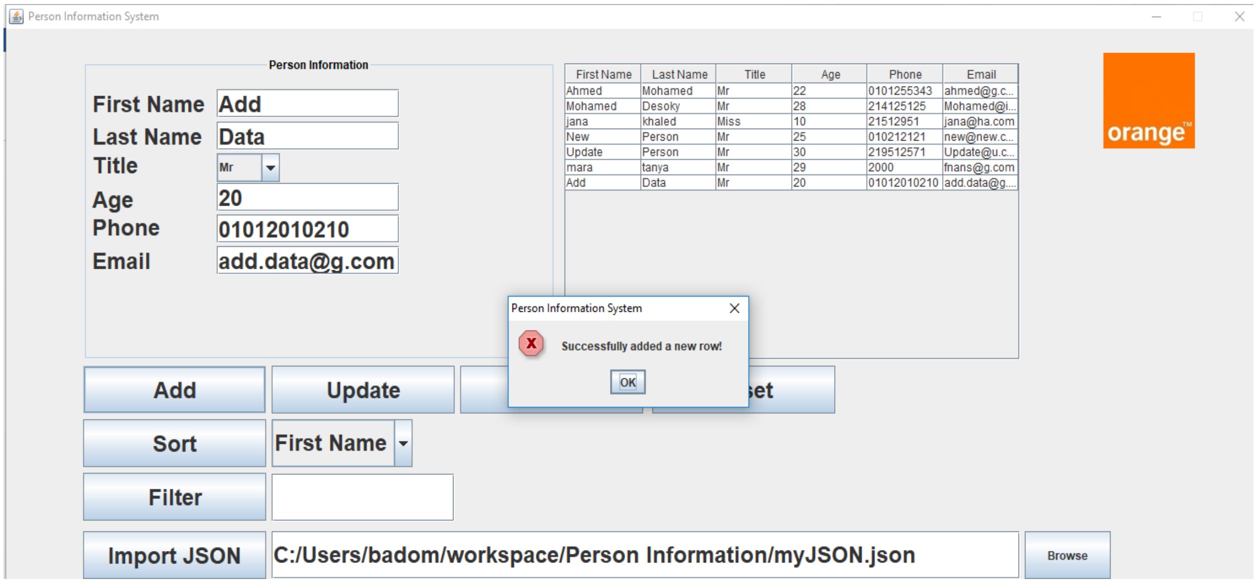
First Name: Add
Last Name: Data
Title: Mr
Age: 20
Phone: 01012010210
Email: add.data@g.com

First Name	Last Name	Title	Age	Phone	Email
Ahmed	Mohamed	Mr	22	0101255343	ahmed@g.c...
Mohamed	Desoky	Mr	28	214125125	Mohamed@i...
jana	khaled	Miss	10	21512951	jana@ha.com
New	Person	Mr	25	010212121	new@new.c...
Update	Person	Mr	30	219512571	Update@u.c...
mara	tanya	Mr	29	2000	fnans@g.com

Test Steps:

1. Type in the data in 'First Name', 'Last Name', 'Age', 'Phone', 'Email' and choose the 'Title' from the combo box.
2. Click the 'Add' Button.

Expected Result: The table should show the new added row at the end of it and a message box pops saying that you have successfully added a row.



First Name: Add
Last Name: Data
Title: Mr
Age: 20
Phone: 01012010210
Email: add.data@g.com

First Name	Last Name	Title	Age	Phone	Email
Ahmed	Mohamed	Mr	22	0101255343	ahmed@g.c...
Mohamed	Desoky	Mr	28	214125125	Mohamed@i...
jana	khaled	Miss	10	21512951	jana@ha.com
New	Person	Mr	25	010212121	new@new.c...
Update	Person	Mr	30	219512571	Update@u.c...
mara	tanya	Mr	29	2000	fnans@g.com
Add	Data	Mr	20	01012010210	add.data@g....

Person Information System

Successfully added a new row!

Sort: First Name

Import JSON: C:/Users/badom/workspace/Person Information/myJSON.json

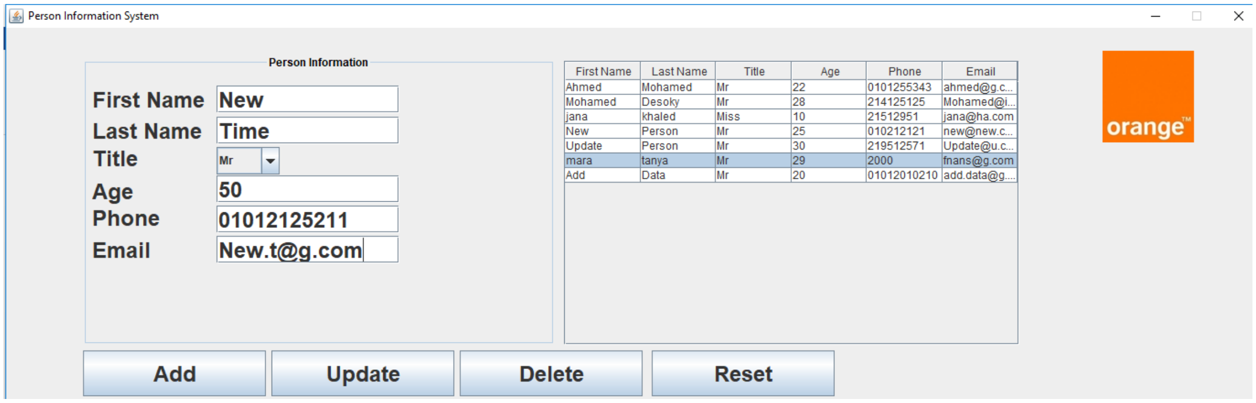
TC#4:

Title: Update person information.

Description: the user can update any information about a person he wants.

Precondition: the user should have imported the JSON file already.

Assumption: the user should select the row that he wants to update.



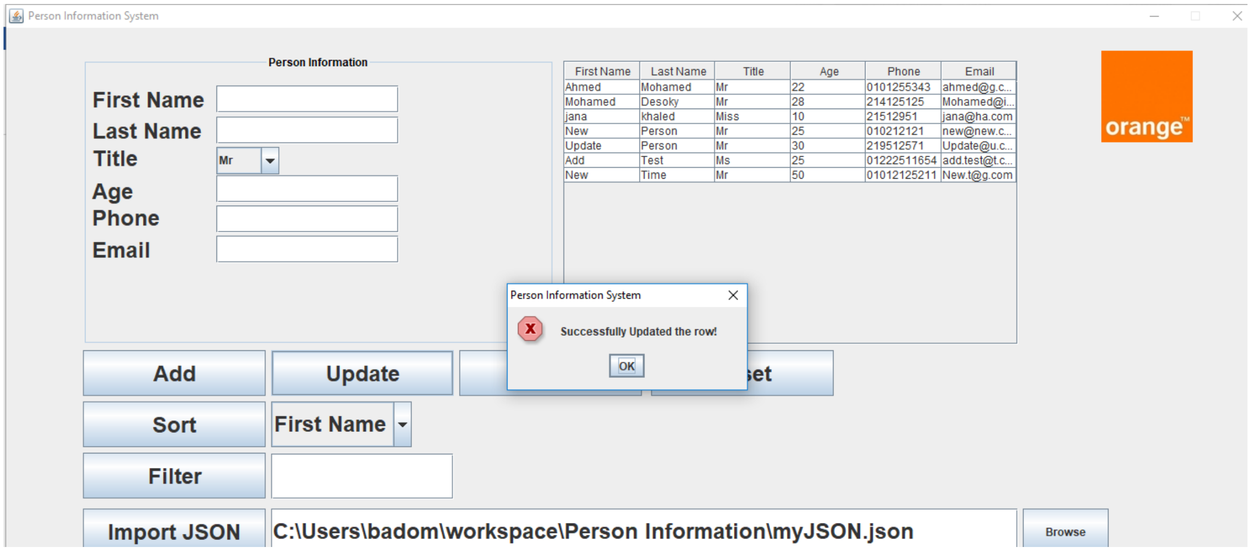
First Name	New
Last Name	Time
Title	Mr
Age	50
Phone	01012125211
Email	New.t@g.com

First Name	Last Name	Title	Age	Phone	Email
Ahmed	Mohamed	Mr	22	0101255343	ahmed@g.c...
Mohamed	Desoky	Mr	28	214125125	Mohamed@i...
jana	khaled	Miss	10	21512951	jana@ha.com
New	Person	Mr	25	010212121	new@new.c...
Update	Person	Mr	30	219512571	Update@u.c...
mara	tanya	Mr	29	2000	fnans@g.com
Add	Data	Mr	20	01012010210	add.data@g....

Test Steps:

1. Select the Row you want to update.
2. Type in the data in ‘First Name’, ‘Last Name’, ’Age’, ‘Phone’, ‘Email’ and choose the ‘Title’ from the combo box.
3. Click the ‘Update’ Button.

Expected Result: The table should show the new updated added row at the end of it and a message box pops saying that you have successfully updated a row.



First Name	
Last Name	
Title	Mr
Age	
Phone	
Email	

First Name	Last Name	Title	Age	Phone	Email
Ahmed	Mohamed	Mr	22	0101255343	ahmed@g.c...
Mohamed	Desoky	Mr	28	214125125	Mohamed@i...
jana	khaled	Miss	10	21512951	jana@ha.com
New	Person	Mr	25	010212121	new@new.c...
Update	Person	Mr	30	219512571	Update@u.c...
Add	Test	Ms	25	01222511654	add.test@t.c...
New	Time	Mr	50	01012125211	New.t@g.com

Person Information System

Successfully Updated the row!

Sort: First Name

Import JSON: C:\Users\badom\workspace\Person Information\myJSON.json

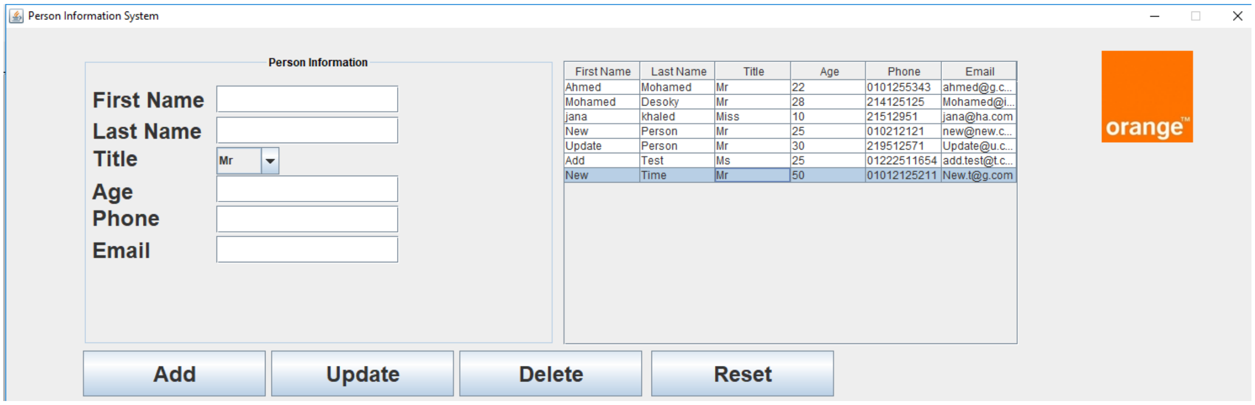
TC#5:

Title: Delete person information.

Description: the user can delete any record from the person information JSON file.

Precondition: the user should have imported the JSON file already.

Assumption: the user should select the row that he wants to delete.

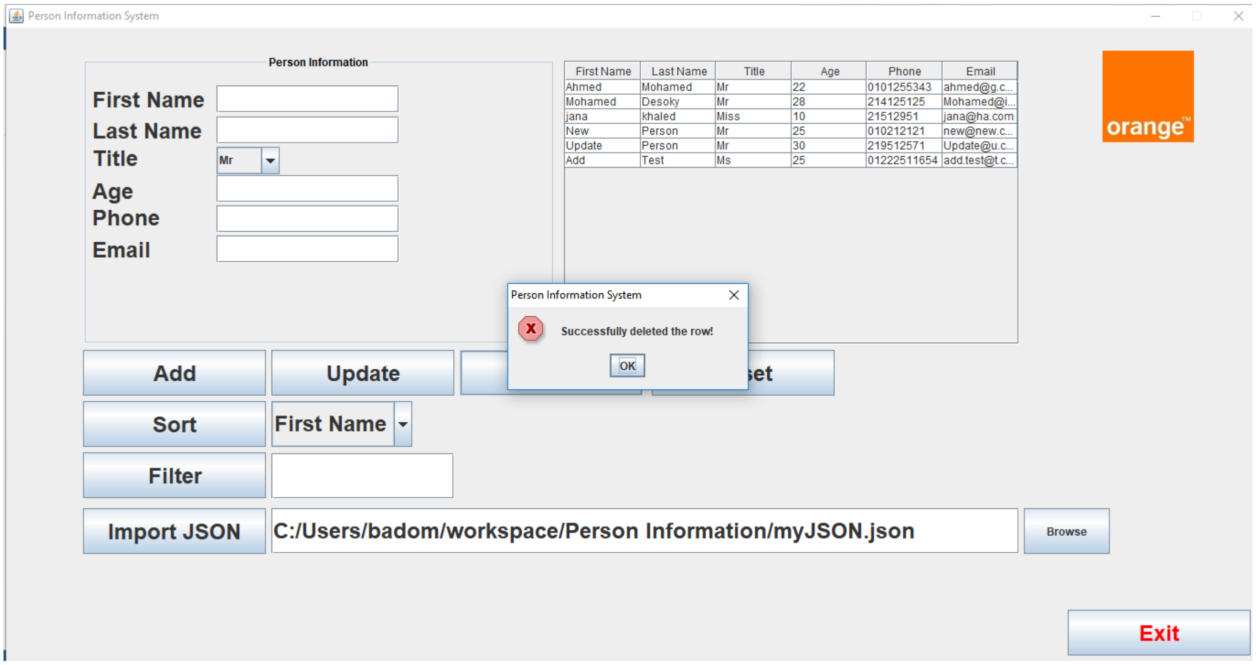


First Name	Last Name	Title	Age	Phone	Email
Ahmed	Mohamed	Mr	22	0101255343	ahmed@g.c...
Mohamed	Desoky	Mr	28	214125125	Mohamed@i...
jana	khaled	Miss	10	21512951	jana@ha.com
New	Person	Mr	25	010212121	new@new.c...
Update	Person	Mr	30	219512571	Update@u.c...
Add	Test	Ms	25	01222511654	add.test@t.c...
New	Time	Mr	50	01012125211	New.t@g.com

Test Steps:

1. Select the Row you want to delete.
2. Click the 'Delete' Button.

Expected Result: The table should show that selected row is deleted and a message box pops saying that you have successfully deleted the row.



First Name	Last Name	Title	Age	Phone	Email
Ahmed	Mohamed	Mr	22	0101255343	ahmed@g.c...
Mohamed	Desoky	Mr	28	214125125	Mohamed@i...
jana	khaled	Miss	10	21512951	jana@ha.com
New	Person	Mr	25	010212121	new@new.c...
Update	Person	Mr	30	219512571	Update@u.c...
Add	Test	Ms	25	01222511654	add.test@t.c...

Successfully deleted the row!

C:/Users/badom/workspace/Person Information/myJSON.json

TC#6:

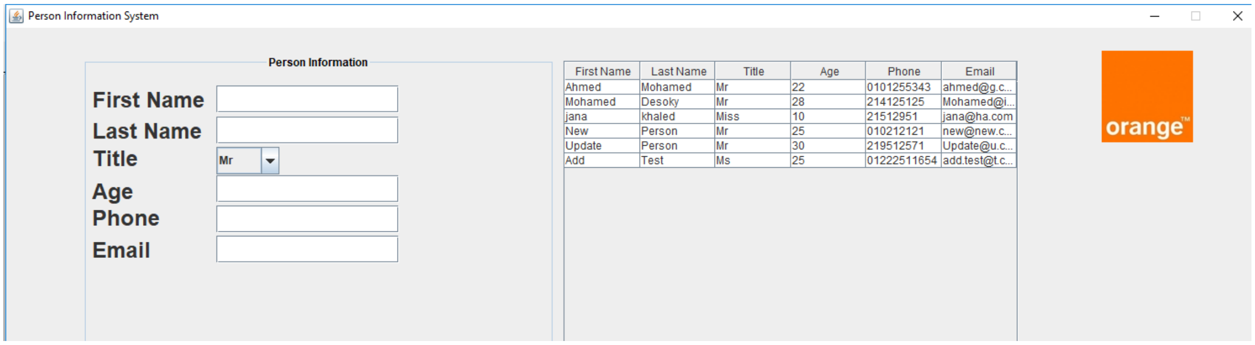
Title: Sort person information by column headers.

Description: the user can sort the table based on any field he chooses.

Precondition: the user should have imported the JSON file already.

Test Steps:

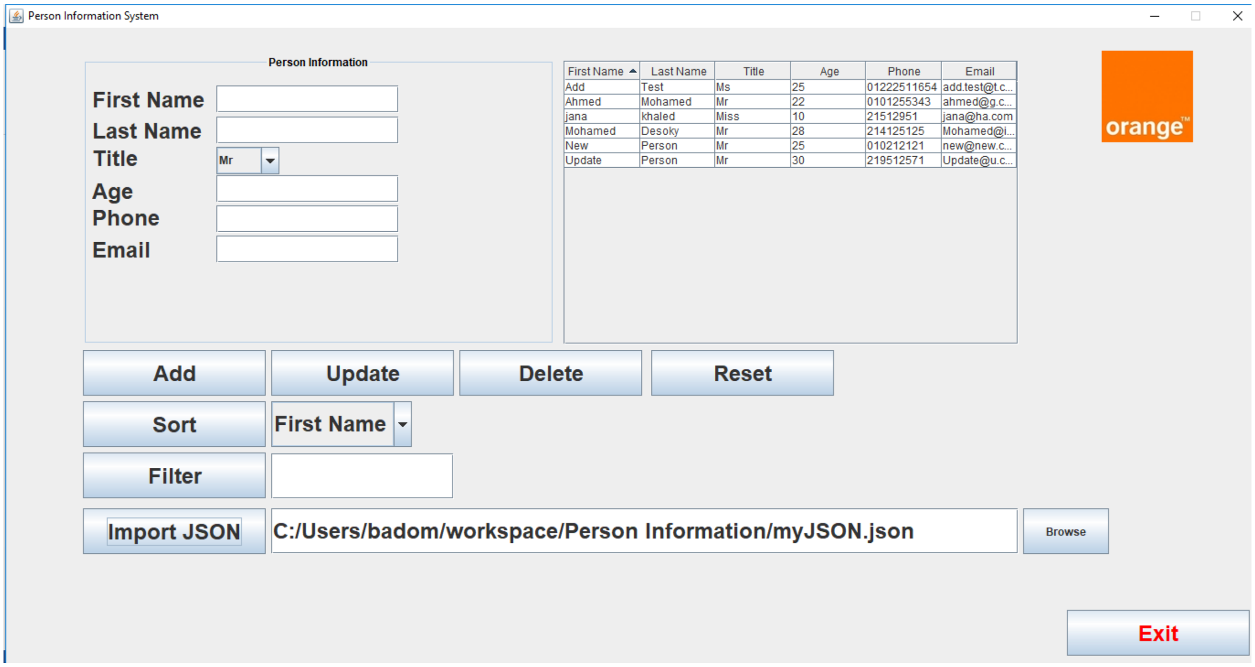
1. Click on the header of the column first time for ascending order.
2. Click on the header of the column second time for descending order.



Title: Mr

First Name	Last Name	Title	Age	Phone	Email
Ahmed	Mohamed	Mr	22	0101255343	ahmed@g.c...
Mohamed	Desoky	Mr	28	214125125	Mohamed@i...
jana	khaled	Miss	10	21512951	jana@ha.com
New	Person	Mr	25	010212121	new@new.c...
Update	Person	Mr	30	219512571	Update@u.c...
Add	Test	Ms	25	01222511654	add.test@t.c...

Expected Result: The table should sort all the rows based on the column you've clicked on its column's header.



Title: Mr

First Name ▲	Last Name	Title	Age	Phone	Email
Add	Test	Ms	25	01222511654	add.test@t.c...
Ahmed	Mohamed	Mr	22	0101255343	ahmed@g.c...
jana	khaled	Miss	10	21512951	jana@ha.com
Mohamed	Desoky	Mr	28	214125125	Mohamed@i...
New	Person	Mr	25	010212121	new@new.c...
Update	Person	Mr	30	219512571	Update@u.c...

Sort: First Name

Import JSON: C:/Users/badom/workspace/Person Information/myJSON.json

TC#7:

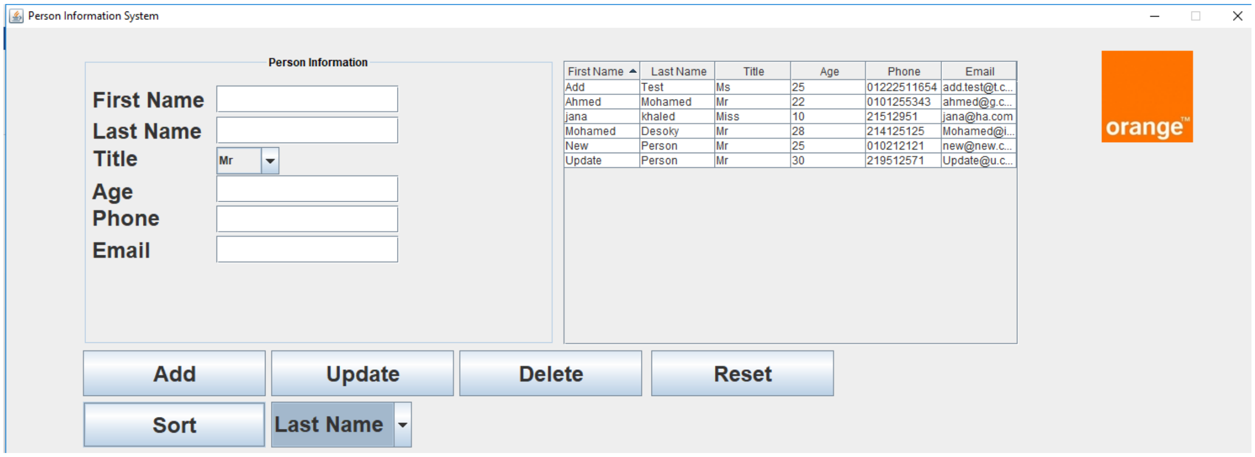
Title: Sort person information by choosing a field.

Description: the user can sort the table bas on any field he chooses using the combo box in beside 'Sort' button.

Precondition: the user should have imported the JSON file already.

Test Steps:

1. Choose the column from the combo box you want to sort.
2. Click on 'Sort' button.

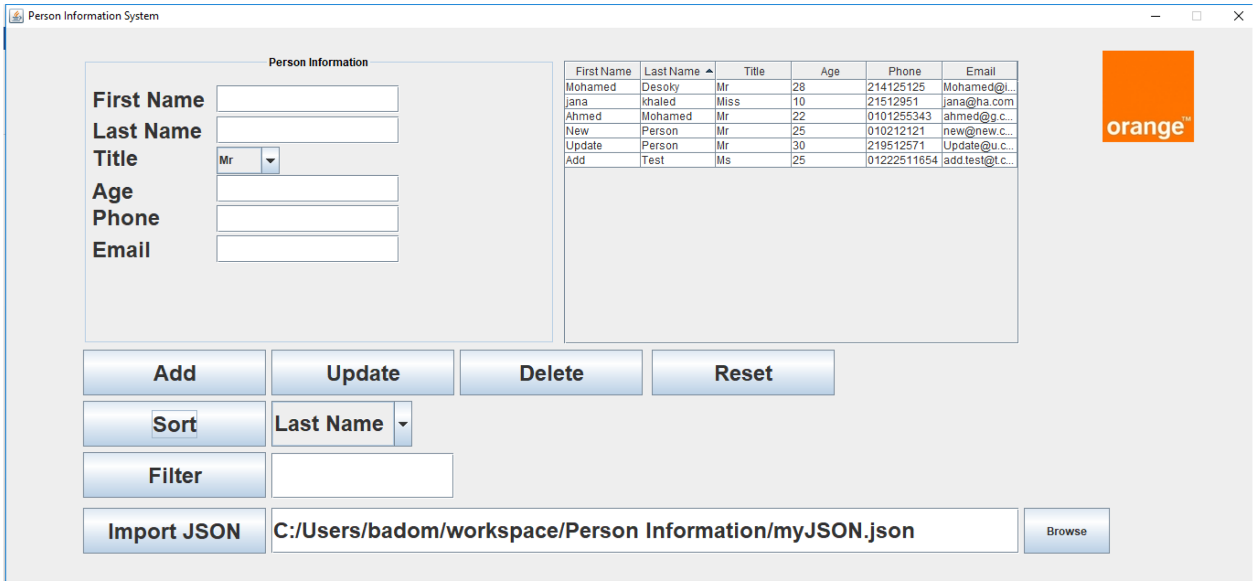


Title: Mr

First Name ▲	Last Name	Title	Age	Phone	Email
Add	Test	Ms	25	01222511654	add.test@t.c...
Ahmed	Mohamed	Mr	22	0101255343	ahmed@g.c...
jana	khaled	Miss	10	21512951	jana@ha.com
Mohamed	Desoky	Mr	28	214125125	Mohamed@i...
New	Person	Mr	25	010212121	new@new.c...
Update	Person	Mr	30	219512571	Update@u.c...

Sort: Last Name

Expected Result: The table should sort all the rows based on the column you've chosen from the combo box in ascending order only.



Title: Mr

First Name	Last Name ▲	Title	Age	Phone	Email
Mohamed	Desoky	Mr	28	214125125	Mohamed@i...
jana	khaled	Miss	10	21512951	jana@ha.com
Ahmed	Mohamed	Mr	22	0101255343	ahmed@g.c...
New	Person	Mr	25	010212121	new@new.c...
Update	Person	Mr	30	219512571	Update@u.c...
Add	Test	Ms	25	01222511654	add.test@t.c...

Sort: Last Name

Import JSON: C:/Users/badom/workspace/Person Information/myJSON.json

TC#8:

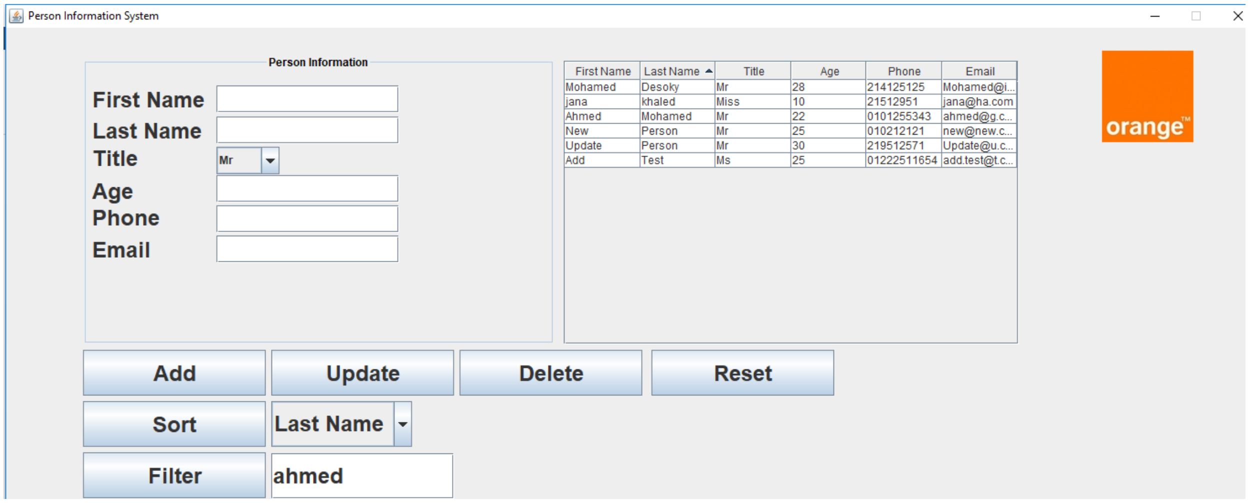
Title: Filter based on any field.

Description: the user can filter the table based on a value he picks based on any field.

Precondition: the user should have imported the JSON file already.

Test Steps:

1. Enter the value to be filtered on in the text box beside the 'Filter' button.
2. Click on 'Filter' button.



Person Information System

Person Information

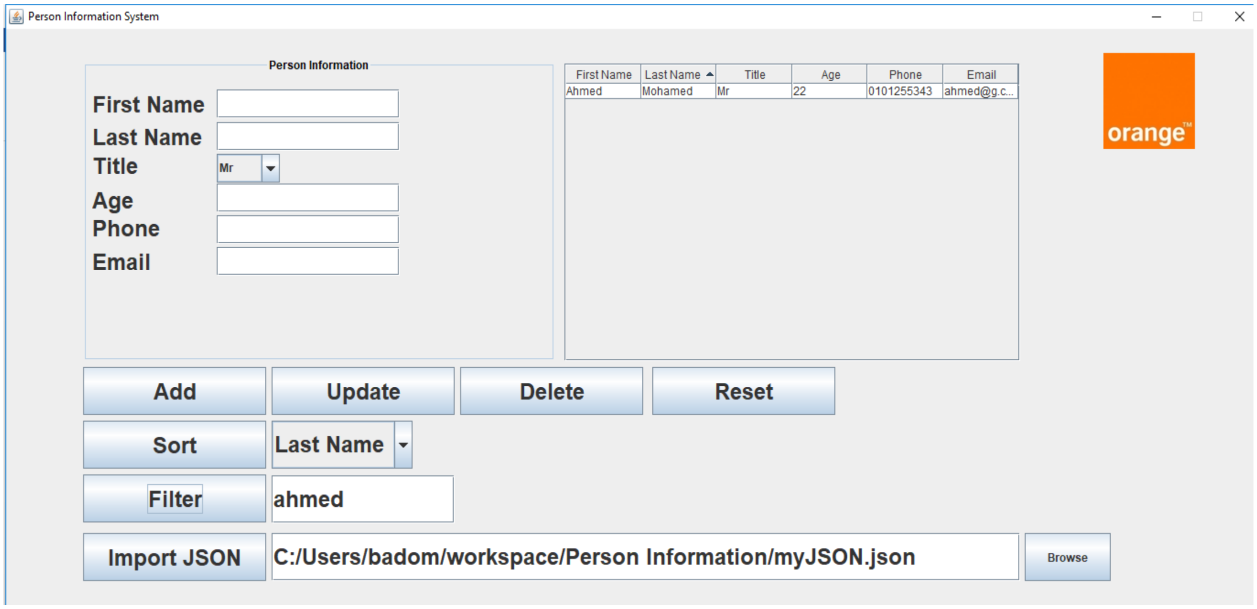
First Name
Last Name
Title: Mr
Age
Phone
Email

First Name	Last Name ▲	Title	Age	Phone	Email
Mohamed	Desoky	Mr	28	214125125	Mohamed@i...
jana	khaled	Miss	10	21512951	jana@ha.com
Ahmed	Mohamed	Mr	22	0101255343	ahmed@g.c...
New	Person	Mr	25	010212121	new@new.c...
Update	Person	Mr	30	219512571	Update@u.c...
Add	Test	Ms	25	01222511654	add.test@t.c...

Sort: Last Name

Filter: ahmed

Expected Result: The table should show the rows that only contains the value that he have enter based on this case the only record should be shown.



Person Information System

Person Information

First Name
Last Name
Title: Mr
Age
Phone
Email

First Name	Last Name ▲	Title	Age	Phone	Email
Ahmed	Mohamed	Mr	22	0101255343	ahmed@g.c...

Sort: Last Name

Filter: ahmed

Import JSON: C:/Users/badom/workspace/Person Information/myJSON.json

TC#9:

Title: Adding an existing row.

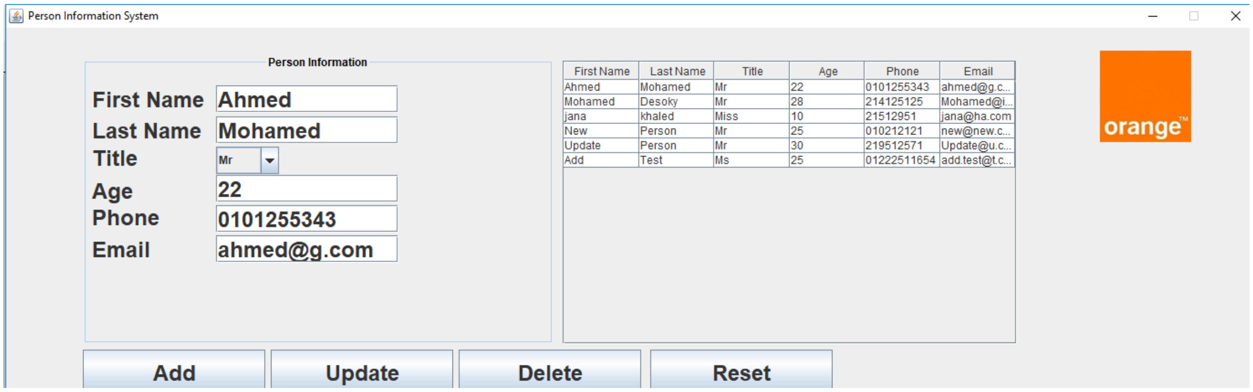
Description: the user can't enter any duplicated rows.

Precondition: the user should have imported the JSON file already.

Assumption: there is already a row with the same values that the user wants to add.

Test Steps:

1. Type in the data in 'First Name', 'Last Name', 'Age', 'Phone', 'Email' and choose the 'Title' from the combo box.
2. Click the 'Add' Button.



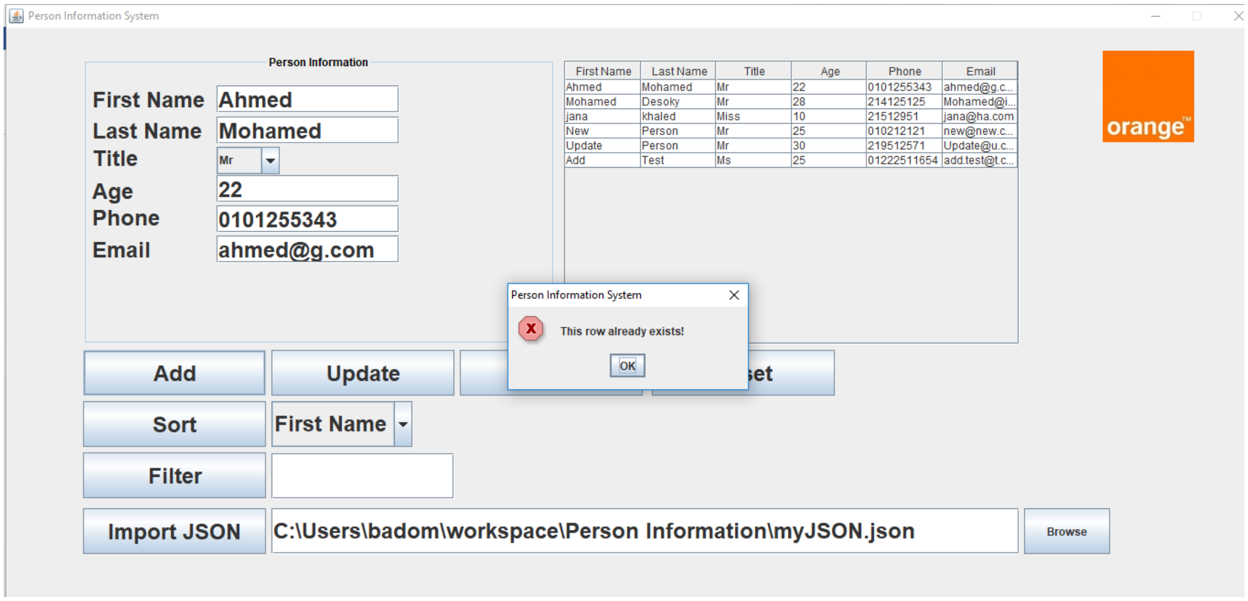
Person Information System

Person Information

First Name: Ahmed
Last Name: Mohamed
Title: Mr
Age: 22
Phone: 0101255343
Email: ahmed@g.com

First Name	Last Name	Title	Age	Phone	Email
Ahmed	Mohamed	Mr	22	0101255343	ahmed@g.c...
Mohamed	Desoky	Mr	28	214125125	Mohamed@i...
jana	khaled	Miss	10	21512951	jana@ha.com
New	Person	Mr	25	010212121	new@new.c...
Update	Person	Mr	30	219512571	Update@u.c...
Add	Test	Ms	25	01222511654	add.test@t.c...

Expected Result: A message box appears saying that this row already exists! And doesn't add the row in the table.



Person Information System

Person Information

First Name: Ahmed
Last Name: Mohamed
Title: Mr
Age: 22
Phone: 0101255343
Email: ahmed@g.com

First Name	Last Name	Title	Age	Phone	Email
Ahmed	Mohamed	Mr	22	0101255343	ahmed@g.c...
Mohamed	Desoky	Mr	28	214125125	Mohamed@i...
jana	khaled	Miss	10	21512951	jana@ha.com
New	Person	Mr	25	010212121	new@new.c...
Update	Person	Mr	30	219512571	Update@u.c...
Add	Test	Ms	25	01222511654	add.test@t.c...

Person Information System

This row already exists!

Sort: First Name

Import JSON: C:\Users\badom\workspace\Person Information\myJSON.json

TC#10:

Title: Update conflict with an existing row.

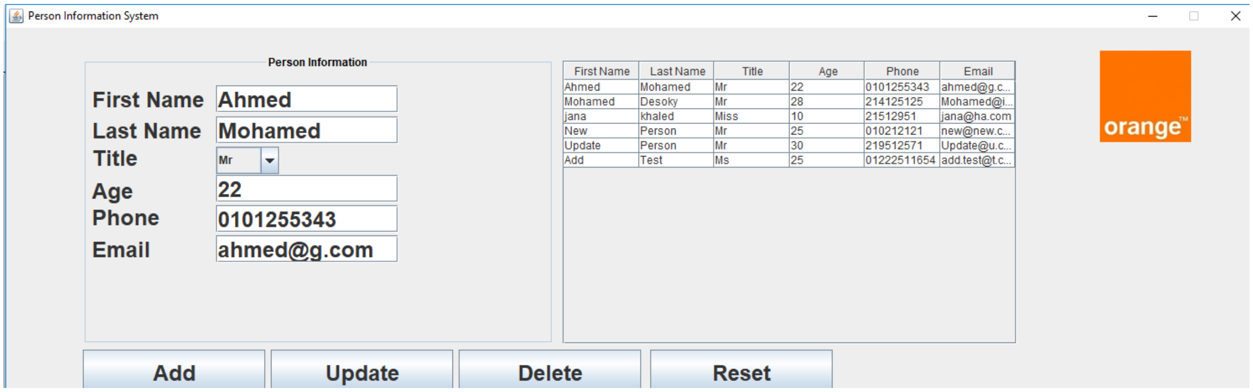
Description: the user can’t update the information of specific person into an already existing row.

Precondition: the user should have imported the JSON file already.

Assumption: there is already a row with the same values that the user wants to update and the user has already selected the row he wants to update.

Test Steps:

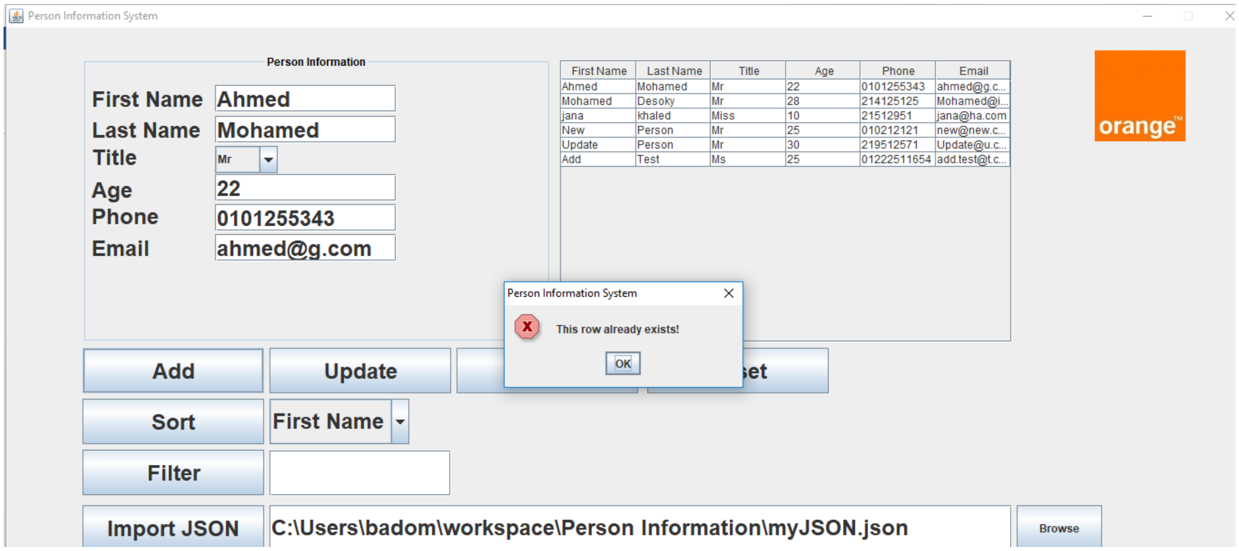
1. Type in the data in ‘First Name’, ‘Last Name’, ’Age’, ‘Phone’, ‘Email’ and choose the ‘Title’ from the combo box.
2. Click the ‘Update’ Button.



First Name	Ahmed
Last Name	Mohamed
Title	Mr
Age	22
Phone	0101255343
Email	ahmed@g.com

First Name	Last Name	Title	Age	Phone	Email
Ahmed	Mohamed	Mr	22	0101255343	ahmed@g.c...
Mohamed	Desoky	Mr	28	214125125	Mohamed@i...
jana	khaled	Miss	10	21512951	jana@ha.com
New	Person	Mr	25	010212121	new@new.c...
Update	Person	Mr	30	219512571	Update@u.c...
Add	Test	Ms	25	01222511654	add.test@t.c...

Expected Result: A message box appears saying that this row already exists! And doesn’t add the row in the table.



First Name	Ahmed
Last Name	Mohamed
Title	Mr
Age	22
Phone	0101255343
Email	ahmed@g.com

First Name	Last Name	Title	Age	Phone	Email
Ahmed	Mohamed	Mr	22	0101255343	ahmed@g.c...
Mohamed	Desoky	Mr	28	214125125	Mohamed@i...
jana	khaled	Miss	10	21512951	jana@ha.com
New	Person	Mr	25	010212121	new@new.c...
Update	Person	Mr	30	219512571	Update@u.c...
Add	Test	Ms	25	01222511654	add.test@t.c...

This row already exists!

C:\Users\badom\workspace\Person Information\myJSON.json

TC#11:

Title: Entering invalid data type.

Description: the user can’t enter any numeric values in the ‘First Name’ or ‘Last Name’ or any alphabetical values in the ‘Age’ or ‘Phone’.

Precondition: the user should have imported the JSON file already.

Assumption: the JSON file should be stored as in key and value pairs in the right format or the values won’t be able to be shown in table.

Test Steps:

1. Enter a numeric value in the ‘First Name’ or ‘Last Name’ or any alphabetical values in the ‘Age’ or ‘Phone’.

Expected Result: There will be no data enter if user tries to enter invalid data types in the text fields.

TC#12:

Title: Entering invalid path to a JSON file.

Description: the application handles any invalid path to a JSON file and throws an exception based on the case it gets.

Assumption: Entered an invalid path or irrelevant data in the ‘Import JSON’ text field.

Expected Result: Exception handled with a message in the console what kind or exception was that and the application continues without crashing.

TC#13:

Title: Resetting the application to first screen.

Description: If the user has entered a lot of inputs and wishes to clear them all there is a button for it.

Assumption: Entered data all of the fields.

Expected Result: Cleared view of the application as it was in the first place.

TC#14:

Title: Adding data to the table.

Description: If user tried to edit any data in the table it will not be possible

Assumption: JSON file has already been loaded.

Expected Result: A non-editable version of table loads up with importing the JSON file.

TC#15:

Title: All the transactions apply in the JSON file.

Description: If the user has made as many add, update or delete in the table it will be applied to the JSON file and can be accessible through any editing tool.

Expected Result: Changes has been made in the JSON file.