

```

//Import libraries
'use strict';
require('dotenv');
const _ = require('lodash');
const colors = require('colors');
const readlineSync = require('readline-sync');

const readlineInfo = require('./readlineInfo.js');
const commons = require('./commons.js');
const actions = require('./actions.js');

const fileName = 'contacts.txt';
const headers = ['Firstname', 'Lastname', 'Nickname', 'Phone', 'Email', 'Birthdate'];
let contacts;

function main() {

    //MENU OPTION SELECTION
    let options = ['Add contact', 'Remove contact', 'Update contact', 'Contact list',

    // Reads text file and maps its element in an object array
    commons.readContactsFile(fileName)
        .then((data) => {
            return commons.createContactsList(data, headers);
        })
        .then((data) => {
            contacts = data;

            let index = readlineSync.keyInSelect(options, 'What do you want to do? ', {gu
            console.log(colors.bold('**' + options[index] + '**'));
            ++index;
            let functionName = actions.getActionFunction(index);
            functionName = 'start' + _.upperFirst(functionName);
            eval(functionName)()
        })
        .catch(console.log);
    }

    // TEST ENVIROMENT CONFIGURATION
    if (!(process.env.NODE_ENV === 'test')) {
        main();
    }

    function startCreateContact() {
        readlineInfo.askContactInfo(headers)
            .then(answers => {
                let contact = {};
                _.each(answers, (a, i) => {
                    contact[_camelCase(headers[i])] = a;
                });
                actions.createContact(contact);
            });
    }
}

```

```
// CALL ACTION METHODS
```

```
function startRemoveContact() {
```

```
    let contactName = readlineSync.question('Please write the name of contact that you want to delete');
    let found = commons.searchContacts(contacts, ['firstname', 'lastname'], contactName);
```

```
    if (!_.isEmpty(found)) {
```

```
        let contact = _.first(found);
```

```
        let sure = readlineSync.keyInYNStrict('Are you sure you want to delete ' + contactName);
```

```
        if (sure) {
```

```
            actions.removeContact(contacts, contact);
```

```
        }
```

```
    } else {
```

```
        console.log(colors.yellow('No contacts found to delete'));
    }
```

```
}
```

```
function startUpdateContact() {
```

```
    let contactName = readlineSync.question('Please write the name of contact that you want to update');
    let found = commons.searchContacts(contacts, ['firstname', 'lastname'], contactName);
```

```
    if (!_.isEmpty(found)) {
```

```
        let contact = _.first(found);
```

```
        let chosen = readlineSync.keyInSelect(headers, 'What field do you want to update?');
        if (chosen === -1) return;
```

```
        let property = headers[chosen];
```

```
        let change = readlineSync.question('Please write the new ' + colors.bold(property) + ' value: ');
```

```
        let update = actions.updateContact(contact, property, change);
```

```
        if (update.isUpdated) {
```

```
            contact = update.contact;
```

```
            commons.rewriteContactsFile(fileName, contacts)
```

```
                .then(() => {
```

```
                    console.log('The contact ' + colors.bold(contact.firstname + ' ' + contact.lastname) + ' has been updated successfully!');
                });
```

```
        } else {
```

```
            console.log(colors.bold.red('The contact has not been updated due to: ') + update.error);
        }
```

```
    }
```

```
}
```

```
function startListContacts() {
```

```
    actions.listContacts(contacts);
}
```

```
function startSearchContact() {
```

```
    let searchIn = ['Complete name', 'Nickname', 'Phone', 'Email'];
```

```
    let chosen = readlineSync.keyInSelect(searchIn, 'Do you want to search by: ', {guessed: 0});
```

```
    let property;
```

```
    switch (chosen) {
```

```
        case 0:
```

```
        property = ['firstname', 'lastname'];
        break;
    case 1:
    case 2:
    case 3:
        property = _.camelCase(searchIn[chosen]);
        break;
    }

    let value = readlineSync.question('Please write your ' + property.toString() + ':
actions.searchContacts(contacts, property, value);
}
```

