

CS 252a - JavaFX Lab Assignment (Monday) - 70 points

Create a JavaFX based application that will allow displaying and editing of CSV files which represent an Address book. The application should be modelled based on MVC pattern. The application should have the following components:

- The Application must have a menu bar, with top level menu: File and Help.
 - Within File, it should have New, Open, Save, Save As and Quit (1 point)
 - New must create a new blank Address book (1 point)
 - Open should launch a `FileChooser` that filters only *.csv files (3 points)
 - Save and Save As should save the current state into csv file, if the file was created from New then clicking on Save must ask for name of file (similar to Save As). Save As should display `FileChooser` for saving into a new file. (5 points)
 - Clicking on Quit should quit the application, except in case where the data has been modified, in which case, it should prompt for saving the changes and carry out same function as Save. (5 points)
 - Help must have sub-menu About, which should show your Name and IITK roll number in a Alert Dialog with type `AlertType.INFORMATION`. (5 points)
- Use `TableView` to display the CSV data, each row of which is a `Person` model described below. (10 points)
Each cell should be editable. (5 points)
Using CSS, highlight the current row being focussed with red (`#ff0000`) background and text color must be white (`#ffffff`). (5 points)
- (5 points) Each entry of Address book must represent a `Person` which has following attributes
 - First Name
 - Last Name
 - Company
 - Job Designation
 - Mobile Number
 - Email
 - Address
 - Website
 - Birth Date
- (5 points) On editing of any entry, it must be updated by calling relevant setter function on `Person` model.
- (5 points) Ensure all the columns are sortable (Including birth date) except Address column.

Overall MVC structure, controller implementation and demonstration carries 15 points on discretion of TA.

Following tutorials might be helpful (Do NOT copy paste code from this):

http://docs.oracle.com/javafx/2/fxml_get_started/fxml_tutorial_intermediate.htm

<http://code.makery.ch/library/javafx-2-tutorial/>