Documentation

Requirements:

Create a Web Interface with 3 subpages - Dashboard, Registration Form, Update Details, to record registered user details

Technologies Used:

- 1. HTML
- 2. CSS
- 3. Flask
- 4. SQLite
- 5. SQLAlchemy
- 6. MaterializeCSS
- 7. WTForm
 - a. Custom Validators
 - b. Validation Errors
- 8. JavaScript

Requirements:

- 1. All 3 pages navigation should within the same browser window/tab
- 2. Name field should not accept special characters
- 3. Salary field should accept only numbers
- 4. Location field should not accept more than 6 characters and should accept numeric only
- 5. Plot Age vs Salary on Dashboard
- 6. You can use SQLLite, MySQL or CSV file as backend database
- 7. Only python should be used to work with backend database
- 8. Make sure you use HTML, CSS, Python and Flask(optional) or Django(optional)
- 9. None of the file/folder paths in the code should hardcoded

For Requirement 1 the Website can be navigated throught the Navbar present For Requirement 9 none of the paths have been Hardcoded.

Dashboard:

Requirement:

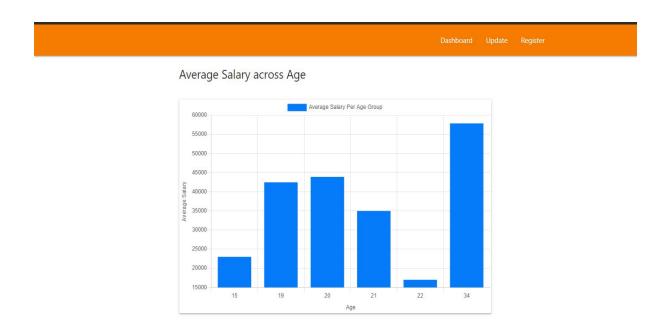
Data from the backend database should be presented in graphs.

Age vs Salary Graph to be plotted.

Solution:

Data from from SQLite Database is fetched using SQLAlchemy and plotted in a bar chart using Chart.JS

Age vs Average Salary per Age plotted as it made the data more readable.



REGISTRATION FORM:

Requirement:

Form should take inputs from the user for Name, Data of Birth, Location, Salary. Forms should have the following requirements:

- 1. Name field should not accept special characters
- 2. Salary field should take only Integers
- 3. Location field to contain only Integers and Length should be less than 6 characters
- 4. Data to be inserted in SQLite Database.

Solution:

The above requirements were met.

Screenshots:

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		Dashboard	Update	Register				
	Name							
	Salary							
	Location							
	Date of Birth							
	SUBMIT							

Figure 1: Registration Form without Data

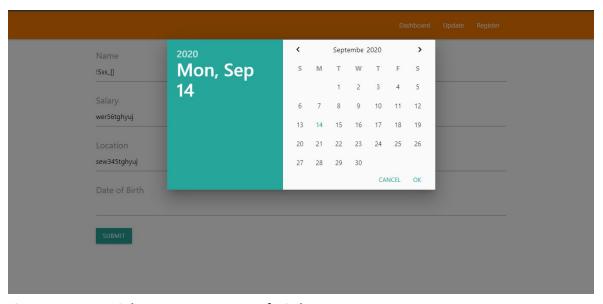


Figure 2: Date Picker to Insert Date of Birth

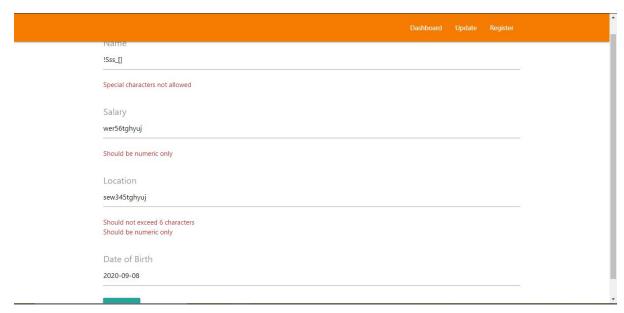


Figure 3: :Validation Errors as per requirements is shown

UPDATE DETAILS:

Requirements:

This page should display all the entries from database and should have an option to edit any value and update the database upon savings the changes.

Solution:

The details of all Users are fetched from Database and shown in Tabular Format with a button to Update Data.

User is redirected to another page as data is shown in a concise manner.

Screenshots:

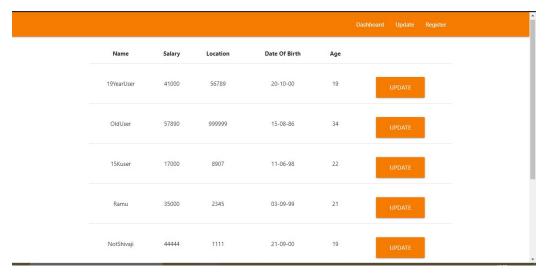


Figure 4: Table with all the data from backend with an option to update

After clicking on Update user is redirected to Specific User Page

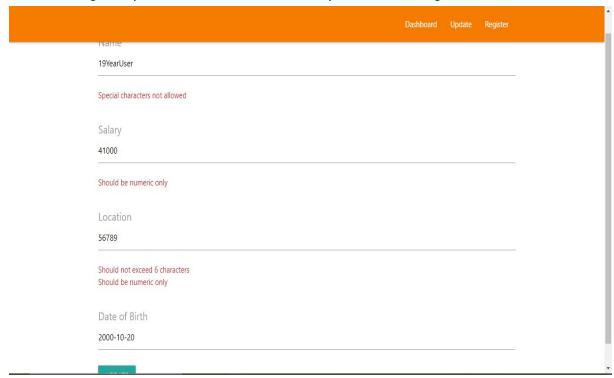


Figure 5 : Custom Validation on Update forms

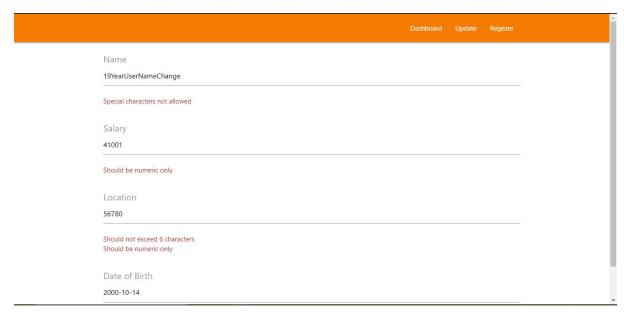


Figure 6: New data is Inserted

				Dashb	ooard Update	Register
Name	Salary	Location	Date Of Birth	Age		
19 Year User Name Change	41001	56780	14-10-00	19	UPDATE	
OldUser	57890	999999	15-08-86	34	UPDATE	
15Kuser	17000	8907	11-06-98	22	UPDATE	
Ramu	35000	2345	03-09-99	21	UPDATE	
NotShivaji	44444	1111	21-09-00	19	UPDATE	

Figure 7 : Changed data is reflected in Database