

REPORT

I aimed to create a comprehensive and user-friendly platform by integrating Angular for the frontend and Node.js with a MySQL database for the backend. This report provides an overview of the technologies used, the design choices made, and the various functionalities incorporated to enhance the overall user experience.

Note - All the required/ Mandatory fields and functionalities have been incorporated in the webpage. I've used Angular, Node.js and MySQL to build the webpage as per the guideline.

Index

Index	1
Front End:	2
Back End:	3
Validations:	5
Functionality:	6
Dependent Dropdowns:	6
Dates in Milliseconds:	7
Dynamic Age Calculation:	7
Image Handling:	7
Prepopulate Popup Form and Update Functionality:	7

Front End:

I followed the guidelines and used Angular for the front end to build a webpage. It includes a header, a form, and a table, along with a pop-up module. These components improve the user interface and functionality of the site.

Company Logo

Uttpreksha

Registration Form

Registration Form

First Name

First Name

Last Name

Last Name

Gender

Please select

Contact Number

+911111111111

Email ID

emailid@gmail.com

Designation

Designation

Date of Birth

mm/dd/yyyy

Populate age as per DOB

Populate age

Upload Photo

Choose File No file chosen

Country

Please select

State

Please select

City

Please select

Pincode

Pincode

Save

Filter

First Name	Last Name	Gender	Contact Number	Email ID	Designation	DOB	Photo	Country	State	City	Pincode	Edit
Sumit	Patil	male	+919325537554	spatil9217@gmail.com	employee	1997-04-25		United States	California	Edinburgh	416211	
Shree	Patil	male	9834392387	shree@gmail.com	employee	2020-12-28		Canada	Ontario	Toronto	987234	
Piyush	Patil	male	+919325537554	spatil9217@gmail.com	employee	2008-06-11		United States	New York	New York City	41621189	
pratik	Patil	male	+919325537554	spatil9217@gmail.com	employee	2016-02-10		United States	New York	New York City	41621144	

First Name

Last Name

Gender

Contact Number

Email ID

Designation

Date of Birth

Populate age as per DOB

Upload Photo

Choose File No file chosen

Country

State

City

Pincode

Save

Filter

First Name	Last Name	Gender	Contact Number	Email ID	Designation	DOB	Photo	Country	State	City	Pincode	Edit
Sumit	Patil	male	+919325537554	spatil9217@gmail.com	employee	2008-06-11		United States	New York	New York City	41621189	
pratik	Patil	male	+919325537554	spatil9217@gmail.com	employee	2016-02-10		United States	New York	New York City	41621144	

First Name

Last Name

Gender

Contact Number

Email ID

Designation

Date of Birth

Populate age as per DOB

Upload Photo

Choose File No file chosen

Country

State

City

Pincode

Update

Close

Back End:

I incorporated a MySQL database to store data, utilizing Node.js for the server side. Four tables were designed: countries, states, cities, and users. The countries, states, and cities tables contribute to the implementation of a dependent dropdown functionality on the front end, enhancing the user experience. On the other hand, the users table is dedicated to storing user information, providing a structured approach to data organization

Table Schema:

Countries Table:

	country_id	country_name
▶	1	United States
	2	Canada
	3	United Kingdom
*	NULL	NULL

States Table:

	state_id	state_name	country_id
▶	1	New York	1
	2	California	1
	3	Ontario	2
	4	England	3
	5	Scotland	3
*	NULL	NULL	NULL

Cities table:


	state_id	state_name	country_id
▶	1	New York	1
	2	California	1
	3	Ontario	2
	4	England	3
	5	Scotland	3
*	NULL	NULL	NULL


Users Table:

[illegible]

Validations:

- Implemented required validation for all form fields. The button should remain disabled until all validations are fulfilled.
- Added email validation for the email field, ensuring it adheres to the required email format.
- Introduced validation for the Pin code field, specifying that it must consist of 8 numeric characters.

 Company Logo

 Uttpreksha

Registration Form

Registration Form

First Name <input type="text" value="First Name"/> <small>Enter First Name</small>	Last Name <input type="text" value="Last Name"/> <small>Enter Last Name</small>	Gender <div>Please select</div> <small>Enter Gender</small>	Contact Number <input type="text" value="+911111111111"/> <small>Enter Contact Number</small>
Email ID <input type="text" value="emailid@gmail.com"/> <small>Enter Email ID</small>	Designation <input type="text" value="Designation"/> <small>Enter Designation</small>	Date of Birth <div>mm/dd/yyyy</div> <small>Enter Date of Birth</small>	Populate age as per DOB <div>Populate age</div> <small>Enter Age</small>
Upload Photo <div>Choose File No file chosen</div> <small>Upload Photo</small>	Country <div>Please select</div> <small>Select Country</small>	State <div>Please select</div> <small>Select State</small>	City <div>Please select</div> <small>Select City</small>
Pincode <input type="text" value="Pincode"/> <small>Enter Pincode</small>			

Save

Filter

Functionality:

Dependent Dropdowns:

- Upon page load, an API call fetches a list of countries, populating the initial dropdown.
- Upon selecting a country, a subsequent API call retrieves and populates the states dropdown.
- Similarly, upon selecting a state, another API call fetches and populates the cities dropdown.
- This cascading dependent dropdown functionality enhances the user's ability to select specific locations.

Dates in Milliseconds:

- All date values are converted into epoch numbers before being stored in the database.
- During the editing process, these epoch numbers are converted back into a human-readable date format, ensuring consistency and accuracy in date handling.

Dynamic Age Calculation:

- After selecting a date, the webpage dynamically calculates and populates the age input field based on the selected birthdate. This feature enhances user convenience by automating age information.

Image Handling:

- Upon image upload, an API call is triggered, storing the image on the server.
- The server responds with an epoch-based filename, linking this filename with user details in the database.
- This approach ensures efficient image management and retrieval.

Prepopulate Popup Form and Update Functionality:

- Clicking the eye icon in the table triggers the display of a popup form.
- The form is pre populated with the existing details of the selected user.
- Users can conveniently update information directly within the popup, streamlining the data modification process.

These functionalities collectively contribute to an enhanced and user-friendly experience on your webpage.

The screenshot displays a web application interface. A sidebar on the left contains form fields for 'Email ID', 'Designation', 'Date of Birth', 'Populate age as per DOB', 'Upload Photo', and 'Pincode'. The main area features a table with user data. A 'User Details' popup form is open, showing pre-populated information for a user named Sumit Patil. The popup form includes fields for First Name, Last Name, Gender, Contact Number, Email ID, Designation, Date of Birth, Pincode, Country, State, and City. The background table has columns for First Name, Last Name, Gender, Contact Number, Email ID, Designation, Date of Birth, Country, State, City, and Pincode. An 'Edit' button with an eye icon is visible in the table's 'Edit' column.

First Name	Last Name	Gender	Contact Number	Email ID	Designation	Date of Birth	Country	State	City	Pincode	Edit
Sumit	Patil	male	+919325537554	spatil9217@gmail.com	employee	2008-06-11	United States	New York	New York City	41621189	
pratik	Patil	male	+919325537554	spatil9217@gmail.com	employee	2016-02-10	United States	New York	New York City	41621144	