

Angular 2 Demo Application : Conference Registration Webpage.

1 Problem Statement

Create a web page for online registration of an international seminar. The participants can be students, faculty members, professional. The registration fees should be accepted either in Rupees or Dollar or Pounds or Euros. The participants should give choice for accommodation for provided hotels. Create the web page with required form elements and default values to accept above mentioned details. A participant must be able to check the list of other registered participant along with their details.

2 UseCase Diagram:

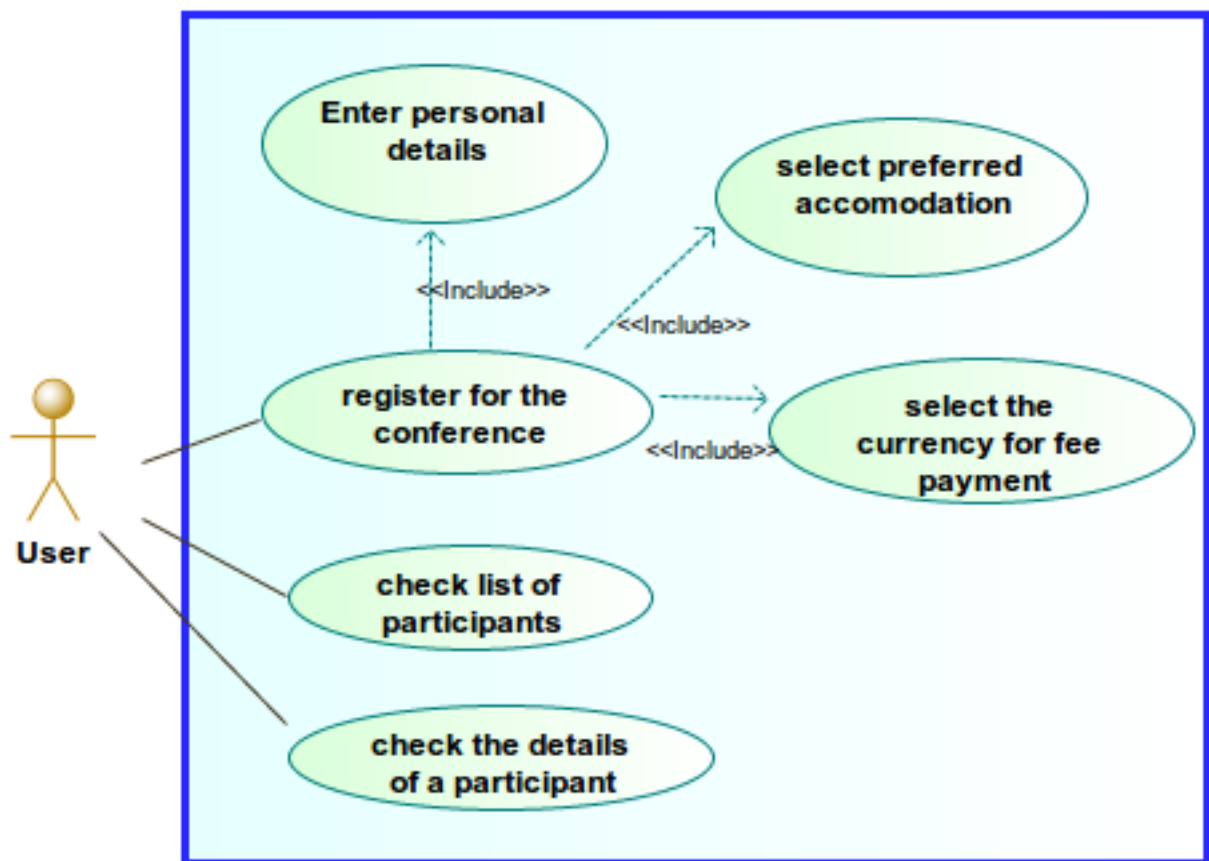


Figure 1 :Use Case Diagram

3 Desired Templates:

Figure 2 : Registration form page

The screenshot shows a web browser at localhost:3000/register. The page title is "International Conference". Below the title are two links: "Register" and "List of participants". The main heading is "Register for Conference". The form consists of several input fields and radio buttons. On the left, there are four labeled input fields: "Name:" with placeholder "Enter name", "Contact:" with placeholder "0", "Address:" with placeholder "Enter address", and "Nationality:" with placeholder "Enter nationality". In the center, under "Status:", there are three radio buttons: "Student" (selected), "Professor", and "Professional". To the right, under "Hotels List:", there are three radio buttons: "Hotel A", "Hotel B", and "Hotel C". On the far right, under "Payment Mode:", there are three radio buttons: "Dollars", "Rupees", and "Euro". A "Submit" button is located at the bottom right of the form area.

← localhost:3000/register | Search

International Conference

[Register](#) [List of participants](#)

Register for Conference

Name:

Contact:

Address:

Nationality:

Status:

☒ Student

☐ Professor

☐ Professional

Hotels List:

☐ Hotel A

☐ Hotel B

☐ Hotel C

Payment Mode:

☐ Dollars

☐ Rupees

☐ Euro

Figure 3 : Participants List page

The screenshot shows a web browser at localhost:3000/participantslist. The page title is "International Conference". Below the title are two links: "Register" and "List of participants". The main heading is "List of Participant". Below this heading, there is a list of three names, each preceded by a number and a link: "1 Mehul", "2 Alex", and "3 Diana".

← localhost:3000/participantslist | Search

International Conference

[Register](#) [List of participants](#)

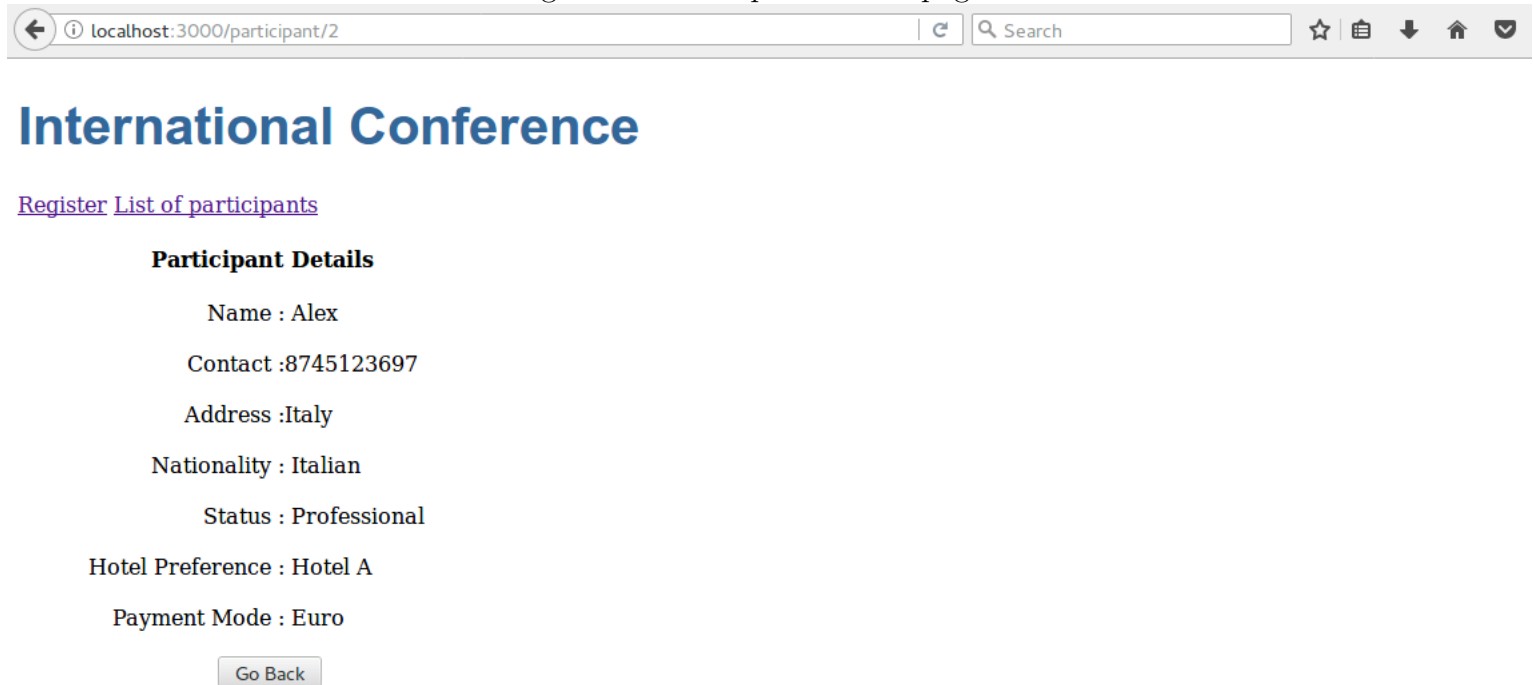
List of Participant

[1 Mehul](#)

[2 Alex](#)

[3 Diana](#)

Figure 4 : Participant details page



4 Software requirements

1. node
2. npm

5 Component List:

1. Participant : Class to contain each participants's details.
2. Registration Component: Associated with the registration form template. It also provides validation of user information and registration functionality.
3. Participant List component: Associated with participant list template. Use to fetch all participants data using a service and display it.
4. Participant Component: Use to display the detail on individual participant. It is associated with participant details template. It provides function to fetch the user detail using a userid.

6 Services List:

1. User status service : It defines the array for user status as Student, Professor or Professional. It also provides service to fetch this user status array.

2. Hotel list service : It defines the array of hotels name. It also provides service to fetch this array.
3. Currency/payment mode service : It defines the array of currency name. It also provides service which returns this array.
4. Participant service: It maintains an array of participants (object of participant class) to store the details of registered participant. It provides the services to add object in array and get the list of participants.

7 Navigation Links and Routing

1. The navbar has link for registration form and participant list.
2. Participant list is link for each participant details.
3. participant detail template has Back button to navigate back to participant list page.
4. The submit button add the participants to list and navigates to same page.
5. `"/register"` is default URL and routes the registration form via registration detail component.
6. `"/participantslist"` is used to route to the participant list template.
7. Details of individual participant is fetch using a directed route with url format as `"/participant/:id"`. It is linked to participant component.

8 Data Bnding

1. Two way data binding was used to connect the form input box value to attribute of participant object on registration page.
2. Property binding was used to link the name to the radio button's value.
3. Interpolation method was used to display read only participant details.

9 Commands

1. Command to clone a sample angular project : `git clone https://github.com/angular/quickstart`
2. Install requirement : `npm install`
3. Execute : `npm start`

10 Links

1. Github Link for Code : <https://github.com/Disha1308/ConferenceRegistration-Angular2>
2. Google drive Link for Video and code: <https://drive.google.com/open?id=1kClOpONKHnBufE3ecQ1Z-hvdjiH-e74o>