



# POLITECNICO

## MILANO 1863

## VOLUNTARY ASSOCIATION

Design Document – Hypermedia Applications 2020

<https://hyp-project.herokuapp.com/>

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## 1. Abstract

This document contains all the basic information about the development of a website for a voluntary association, in our case, an association that provides activities for underprivileged children. The document is divided in four main part, “Graphical representation”, “Scenarios”, “Design in-the-small” and “Database design”. In the “Graphical representation” part we provide the IDM (Interactive Dialogue Model) design, composed of the C-IDM, L-IDM, and P-IDM diagrams for our website. In the “Scenarios” part we provide some scenarios for some of the uses that the users of the website might use it for. In the “Design in-the-small” part we provide a preliminary design for the front-end of the website, taking into account that this document is done before the final implementation these design can undergo some changes in the next steps of the development. Finally, in the “Database design” part we provide the Entity Relationship model and the Logical Design schema of the database that will oversee storing the data for the website.

## 2. Graphical representations

### 2.1. C-IDM

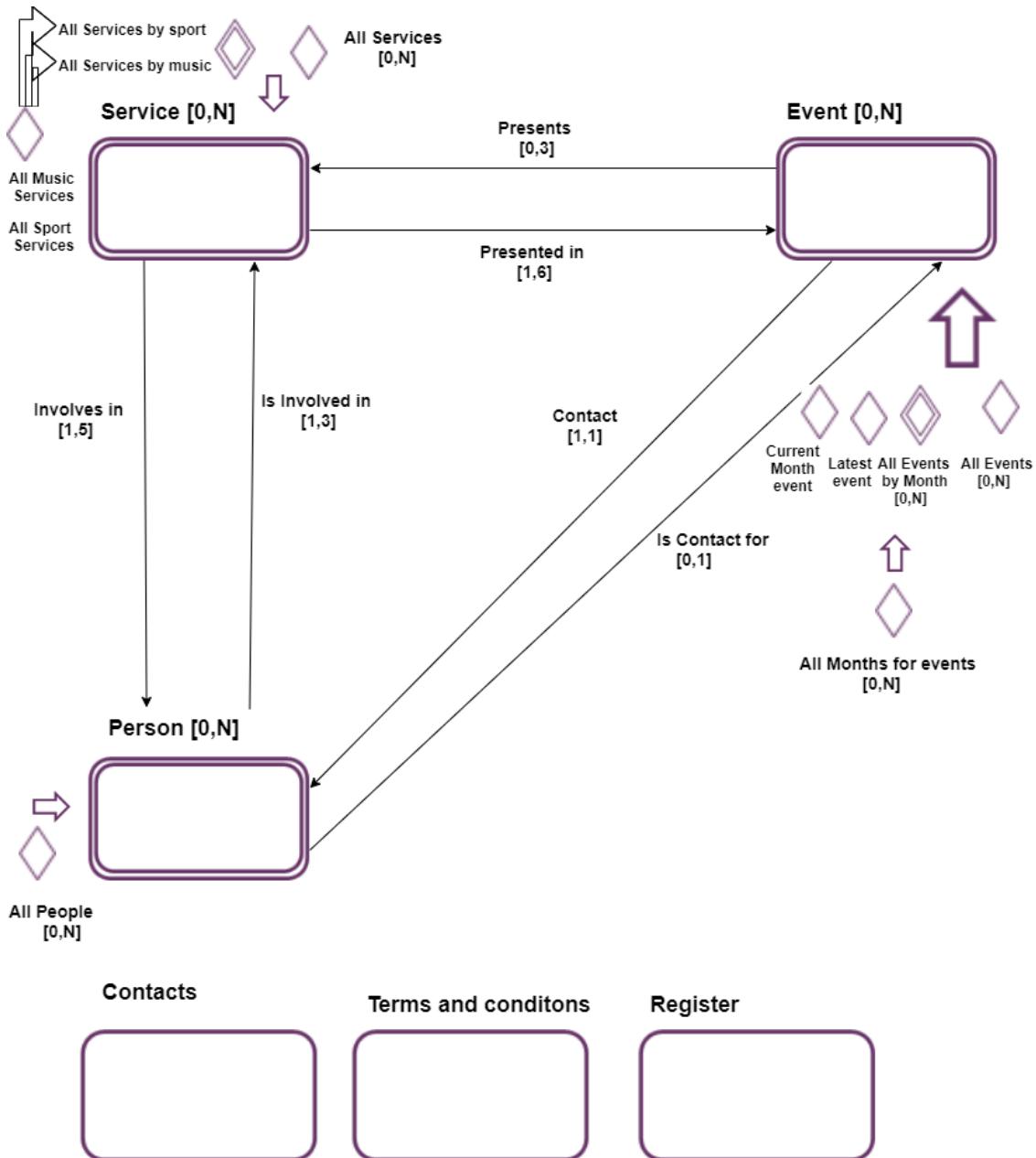
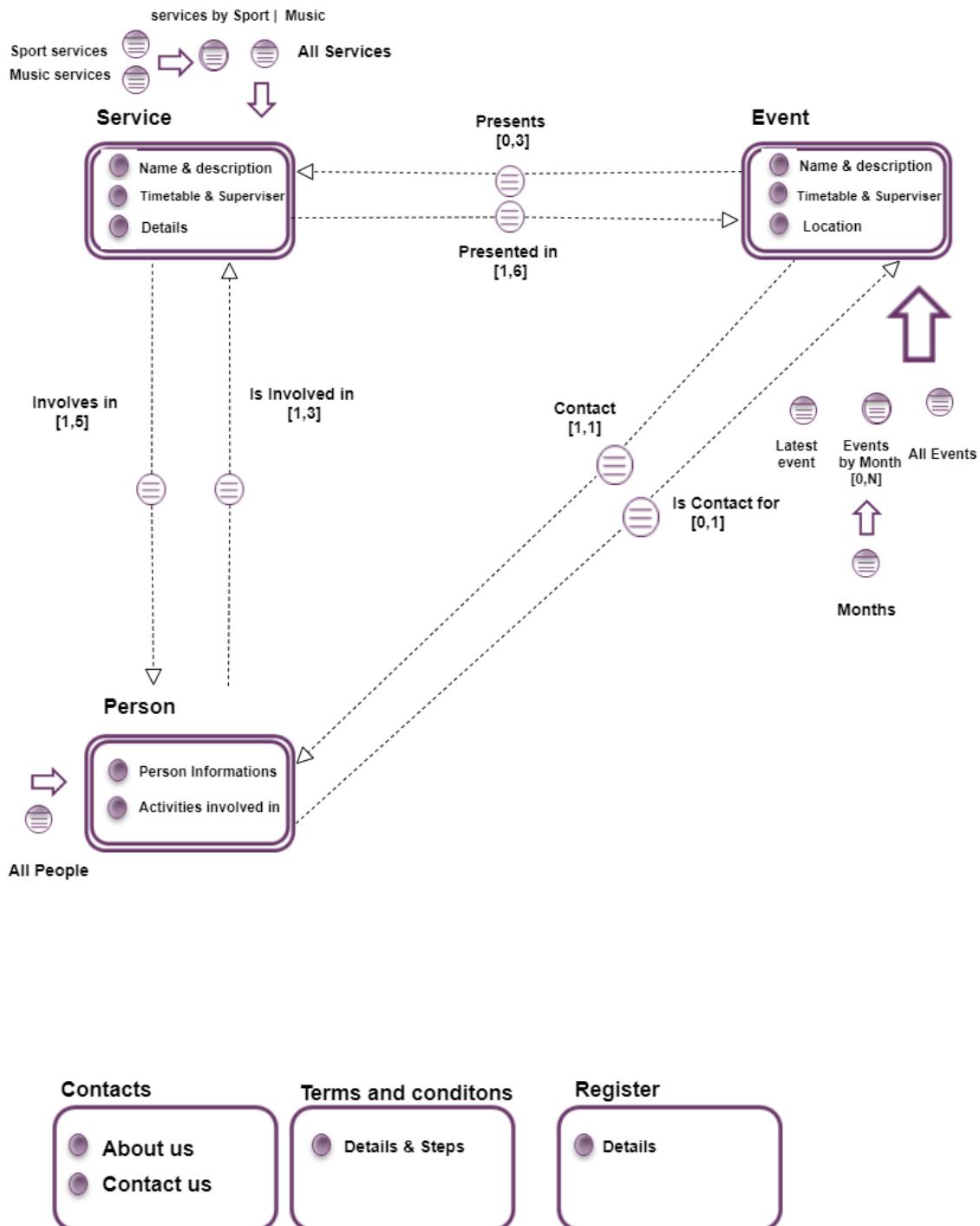


Image 1: Content Iterative Dialogue Model.

## 2.2. L-IDM



## 2.3. P-IDM

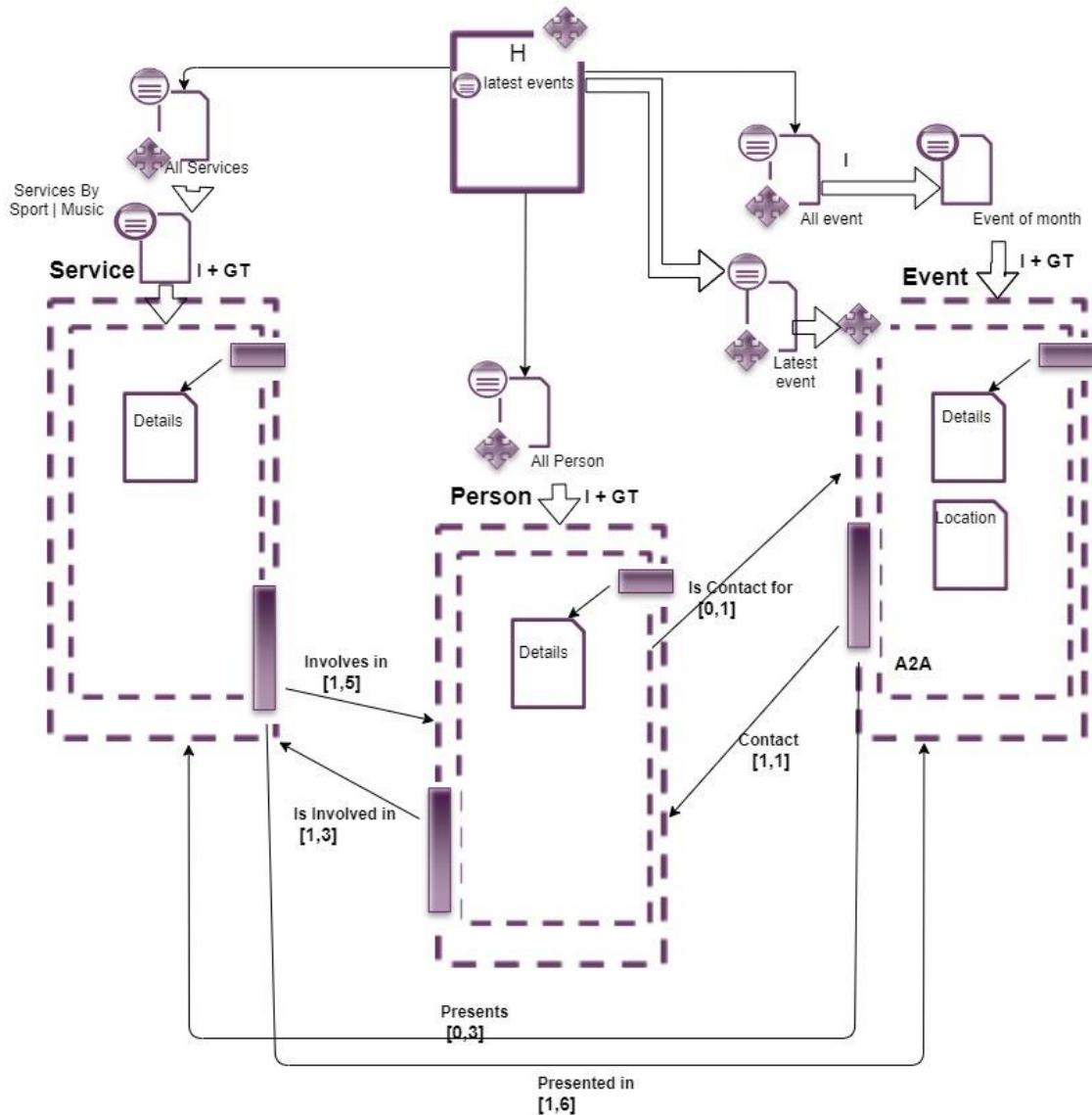


Image 3: Page Interactive Dialogue Model.

### 3. Scenarios

#### 3.1. Case 1

Summer is coming, the kid will end the school year and will have vacations, but the parents must keep working and can't afford to hire someone to stay with the kid during the day. The parents decide to send the kid to some of the activities that the voluntary association provides.

The parents enter the volunteeraro website and start checking the home page. By scrolling down, they reach part of the home page which has two parts including sport and music training.

His parents want him to attend to a sport class to have more fun so they click on the sport training.

They enter to a page which has already filtered by sport classes so they scroll to see what sport suit their son the best. They decided to choose football because he really loves it. So for more detail they click on it. Then, they reach a page which has more detail about football classes and also the supervisors and coaches. They click on the "more" in the "Eveling" section who is the football coach.

As soon as they see the details and the experiences that Eveling has, they scroll to go back to services again to register for the class.

Thus, they see the time table, documentation and verification information, and they click the link at the bottom of the page which is "register".

To register, they lead to a page which step by step guide them for registration and then click the button "registration". Then a registration page appears and need some information about them like name, surname and etc.

And finally they press a "submit" button and now their son is registered to a football class.

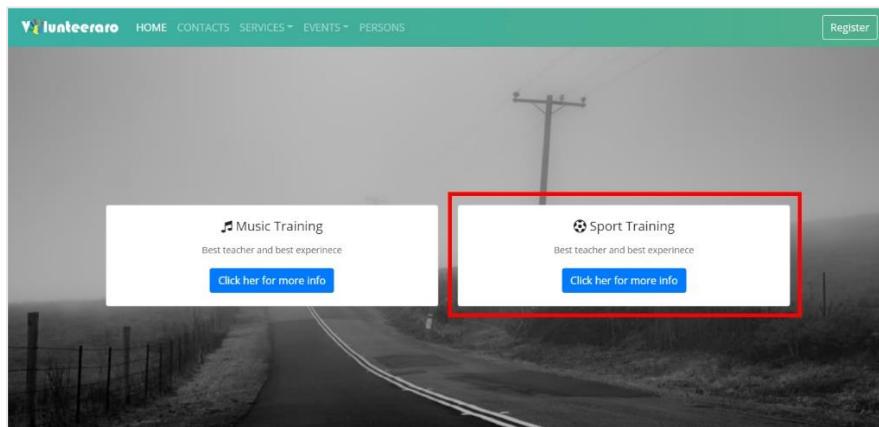


Image 4: Case 1, step 1: click on the "sport training" part from home page

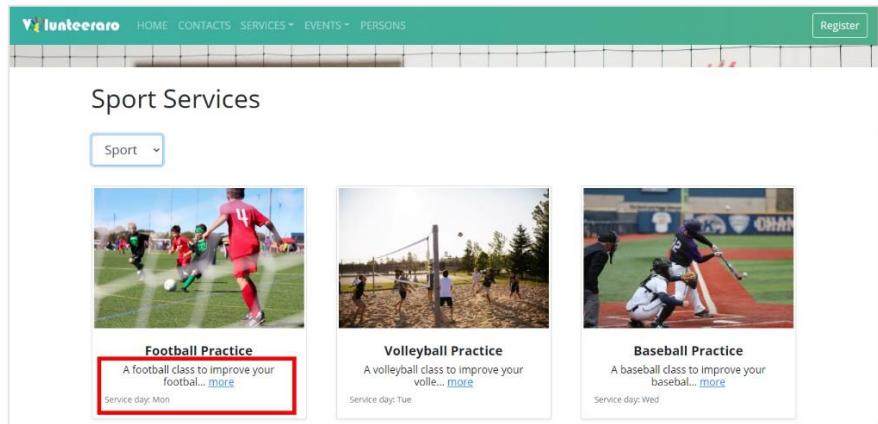


Image 5: Case 1, step 2: click on “more” in the “services” page which is filtered by sport

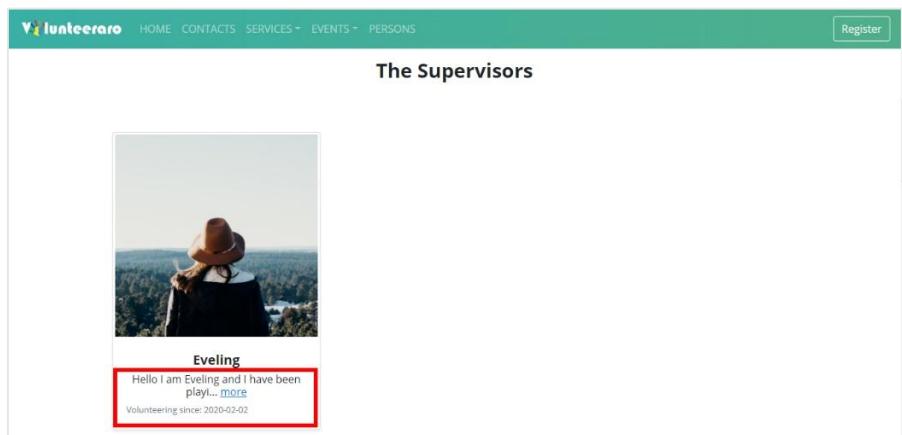


Image 6: Case 1, step 3: click on “more” in the “the supervisors” section

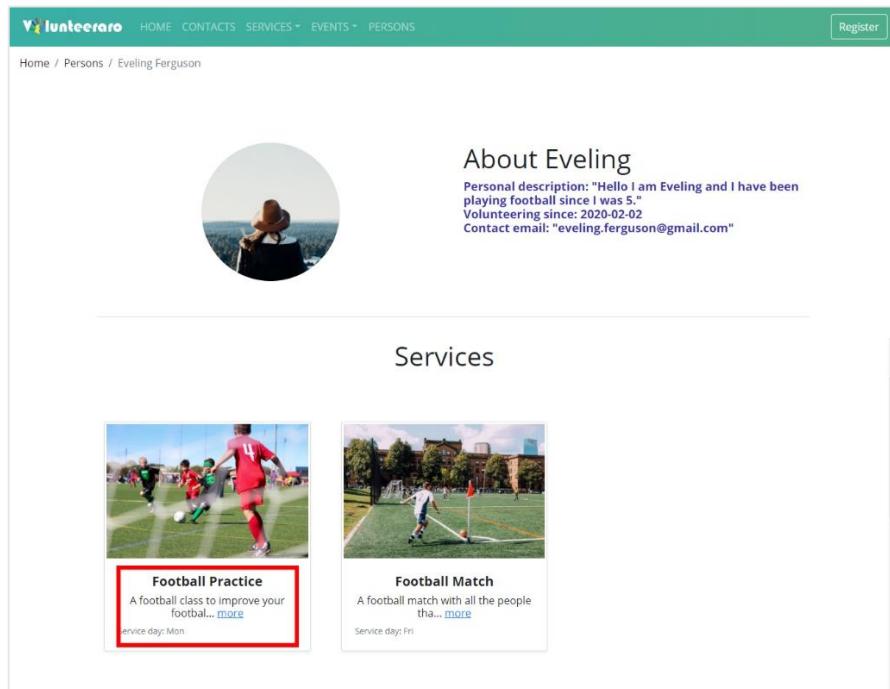


Image 7: Case 1, step 4: scrolling and click back for the “services” part

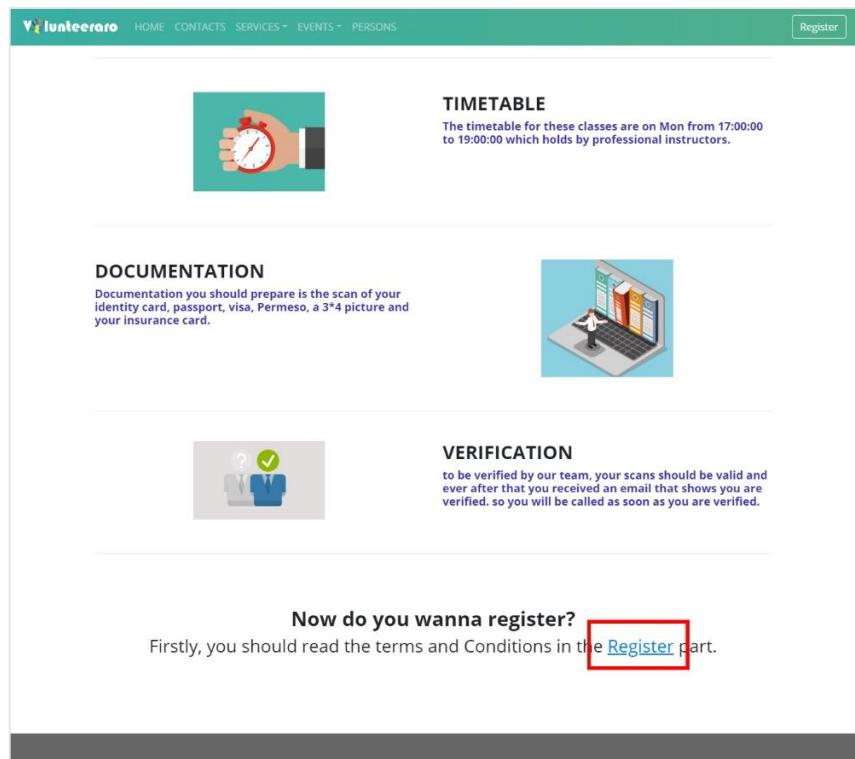


Image 8: Case 1, step 5: click on the “register” link which is in the “services” page

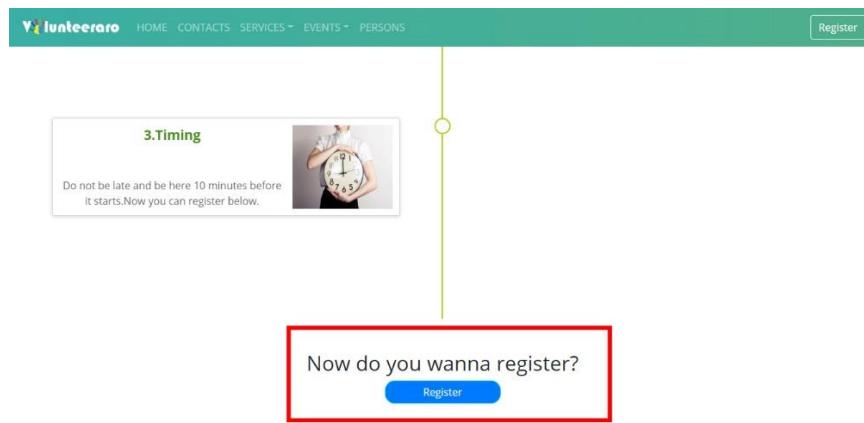
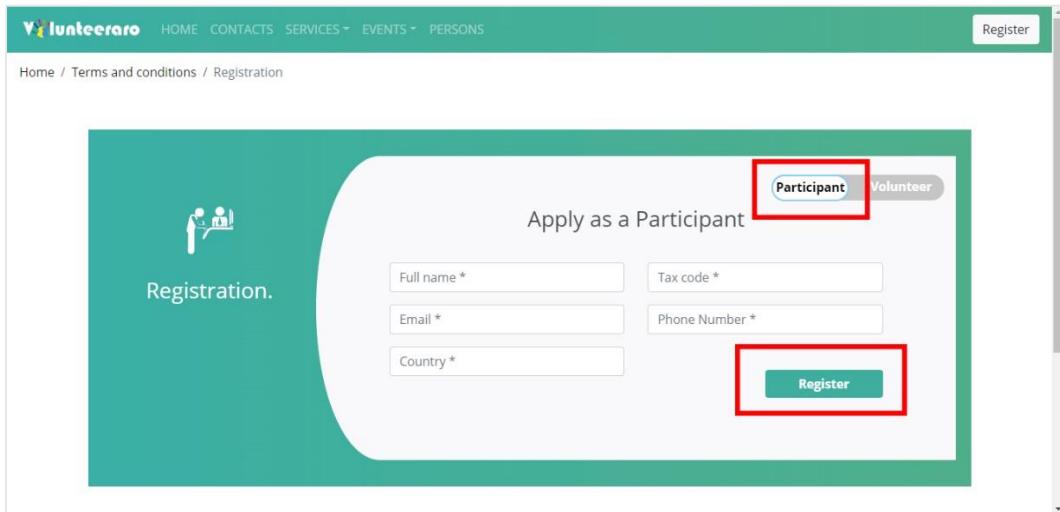


Image 9: Case 1, step 6: click on the “register button” in the “terms and conditions” page



*Image 10: Case 1, step 7: click on the “participat” section at the top of the page and then filling out the form for registration and press “confirm”*

### 3.2. Case 2

A friend wants surprise her a friend by a gift for her birthday but wants it to be special. She knows that her friend really loves performances and active events so she decided to go the volunteeraro website and check the events.

She enters the website, and as soon as she entered, she press the “Events” link on the navigation bar and then she chooses all events to see all of the in one place.

She decides to choose a performance and event in the month of june because her friends exams will be finished and it's the best time for her. When the date was filtered, she saw a couple of events but she chooses the “Violin Recital” because her friend really loves classical concerts and performances.

So she clicks on “more” to see the timetable and etc. so she enterd to the that last page and read all the details about that performance and also scroll down to see the exact date and location. She thinks that this would be a best gift to her friend and also it doesn't cost any money so its free and enjoyable and the only thing that you have to know is the time and location.

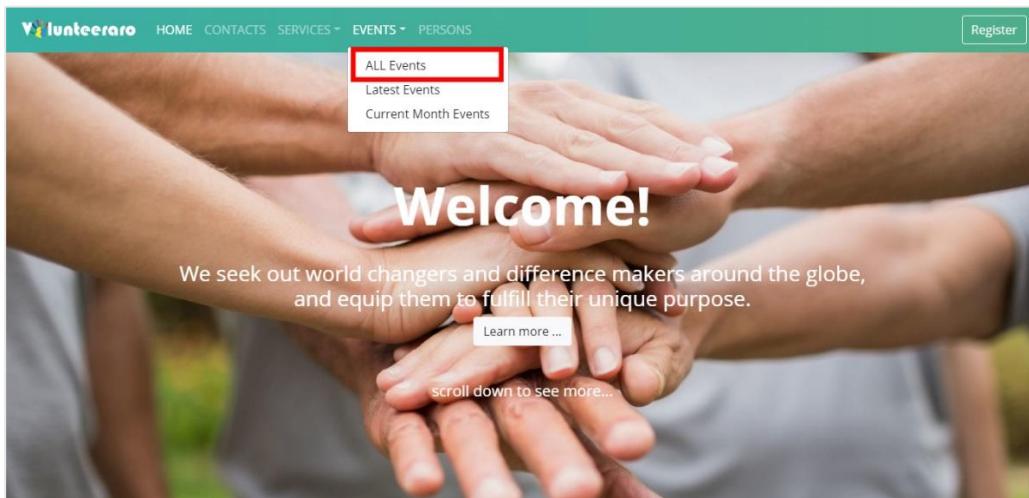


Image 11: Case 2, step 1: click on “all events” from navigation bar

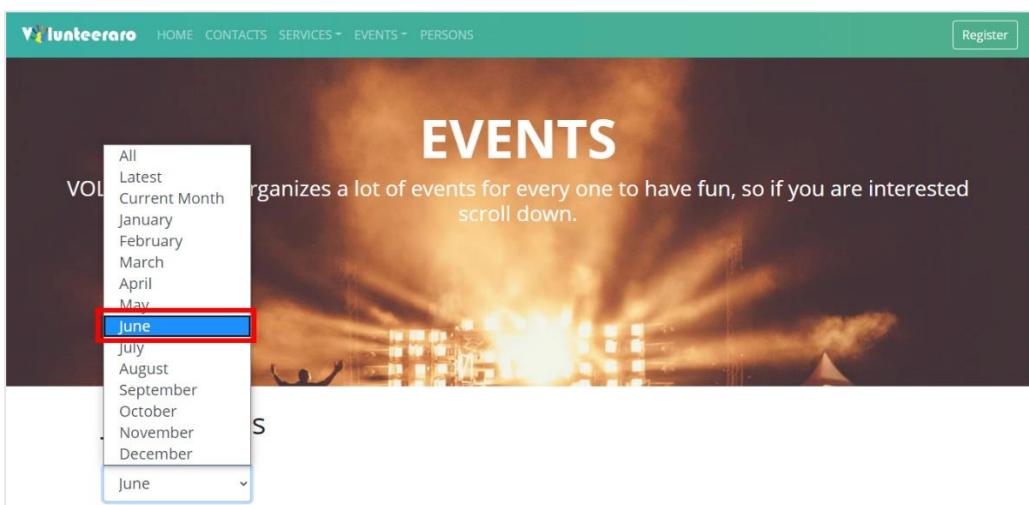


Image 12: Case 2, step 2: filter the month to “June”.

June

**Piano Recital**  
A piano recital from all the piano class... [more](#)

Event date: 2020-06-07

**Violin Recital**  
A violin recital from all the violin cla... [more](#)

Event date: 2020-06-14

**Football Tournament**  
A football tournament with a lot of pric... [more](#)

Event date: 2020-06-06

Image 13: Case 2, step 3: click on “more” in the “Violin Recital” part of performances

Service day: Wed

**TIMETABLE**  
The date of the event is the 2020-06-14 and the duration of it is from 15:00:00 to 17:00:00.

**LOCATION**  
The location of the event is:

[Scuola Internazionale Musicale di Milano](#)

The map shows the location of the Scuola Internazionale Musicale di Milano in the Quadrilatero della Moda area of Milan, with various landmarks like the Arco della Pace, Basilica di Sant'Ambrogio, and Fondazione Prada nearby.

**Follow Us**

- Piazza Leonardo da Vinci, 32  
20133 Milano MI
- +39 351 646 6699
- [support@voluntarraro.com](mailto:support@voluntarraro.com)

Image 14: Case 2, step 4: checking out the timetable and location and click on “location” to see the exact location on google map.

### 3.3. Case 3

One of our volunteer's friend wants to attend to her friend's class which is football sport.

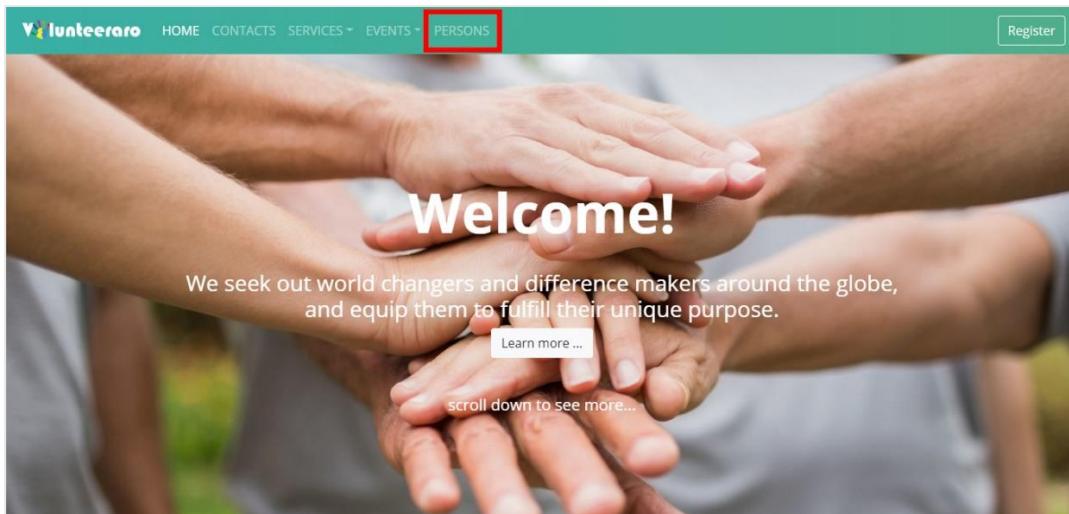
So first of all he enters the Volunteeraro website and click on "Persons" on the navigation bar. after that he scrolls down to find his friend name which is "Eveling".

After he found out about her name, he sees the services that his friend is included in them so as he wanted, he clicked on "more" in the "football practice" part in "services" section.

And then he scrolls down to reach the register link. And he already knew about timetable and documentation and also verification so he skipped from those and click on "register" link at the bottom of the page.

So he enters the "terms and conditions" page to see the steps for registration, after reading all of them, he press the "register button" at the end of the page.

And finally he reaches the registration page and chooses to register as a "participant" on the up right side of the page and after filling all the information needed, he press the "submit" and now he's enrolled to a football practicing class with his friends coaching.



*Image 15: Case 3, step 1: click on "persons" link on the navigation part*

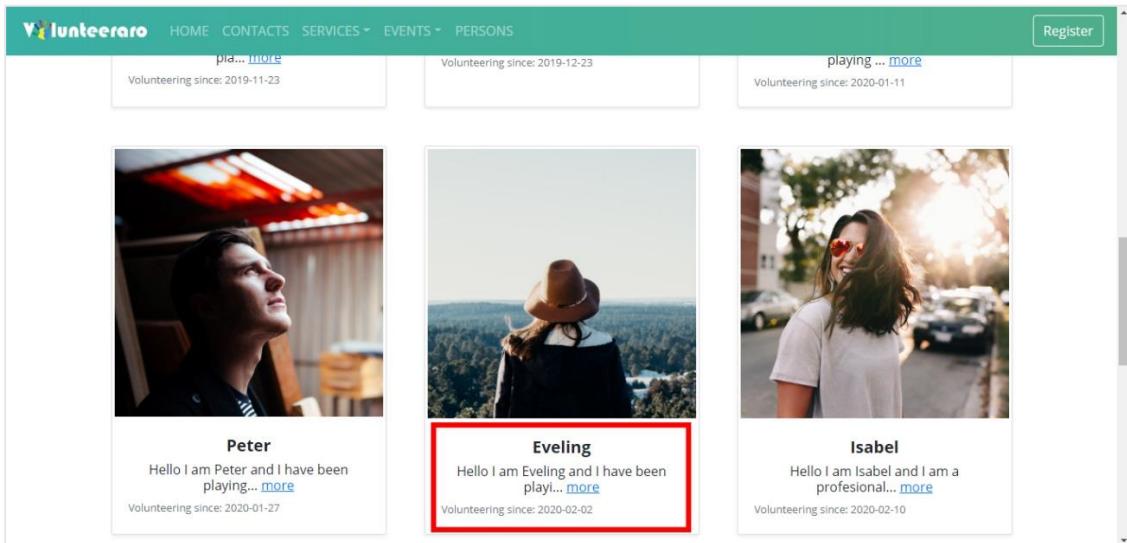


Image 16: Case 3, step 2: clicking on “more” in the “Eveling” part

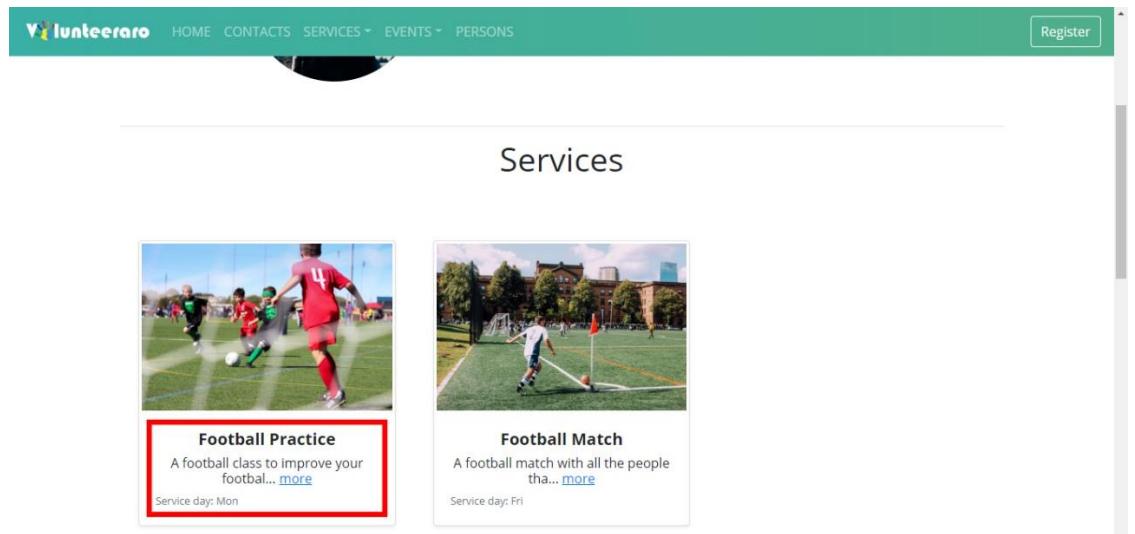
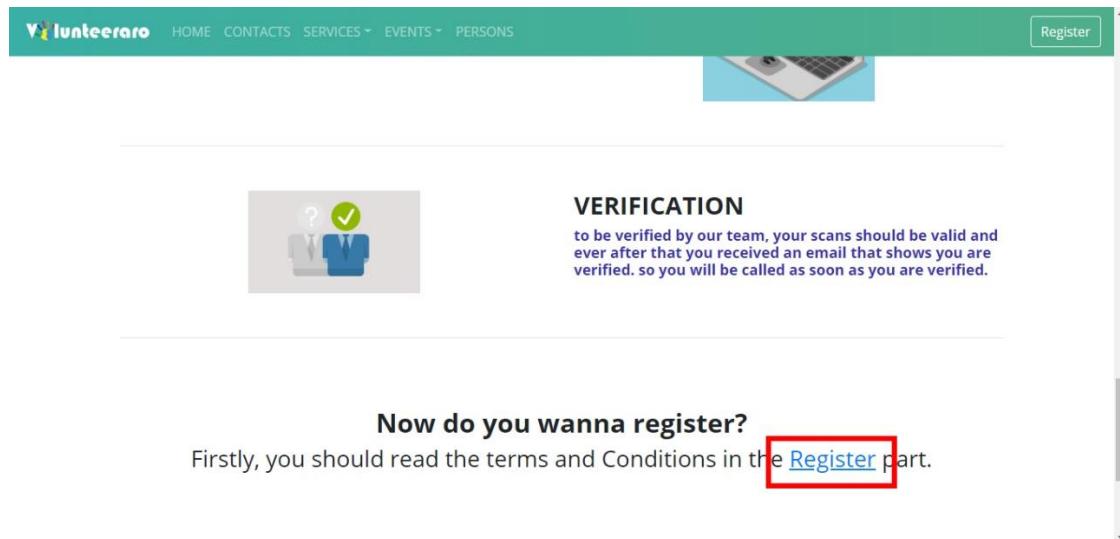
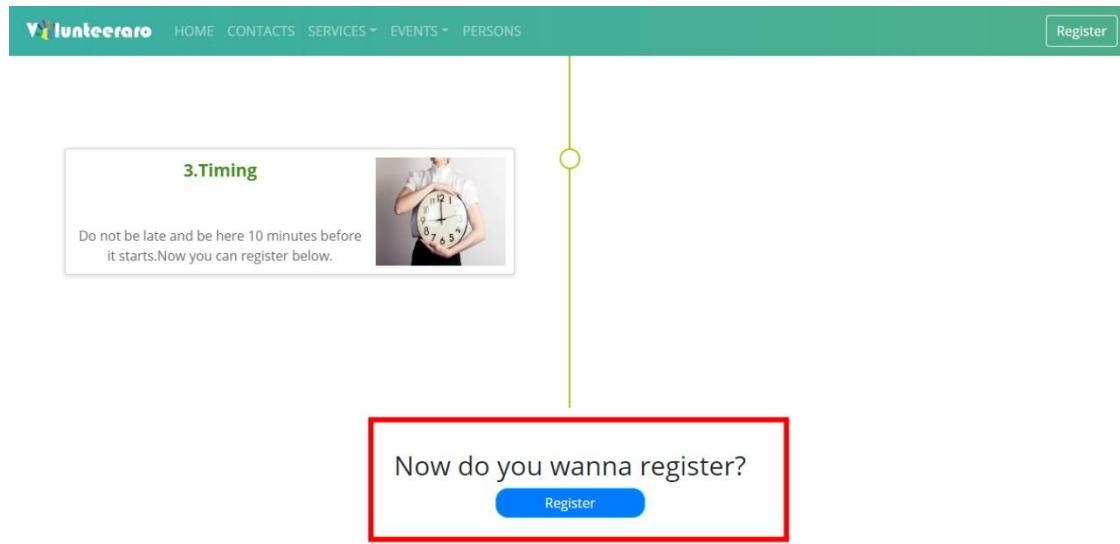


Image 17: Case 3, step 3: clicking on “more” in the “football practice” section of “services” part



*Image 18: Case 3, step 4: clicking on “register” link*



*Image 19: Case 3, step 5: clicking on “register” button*

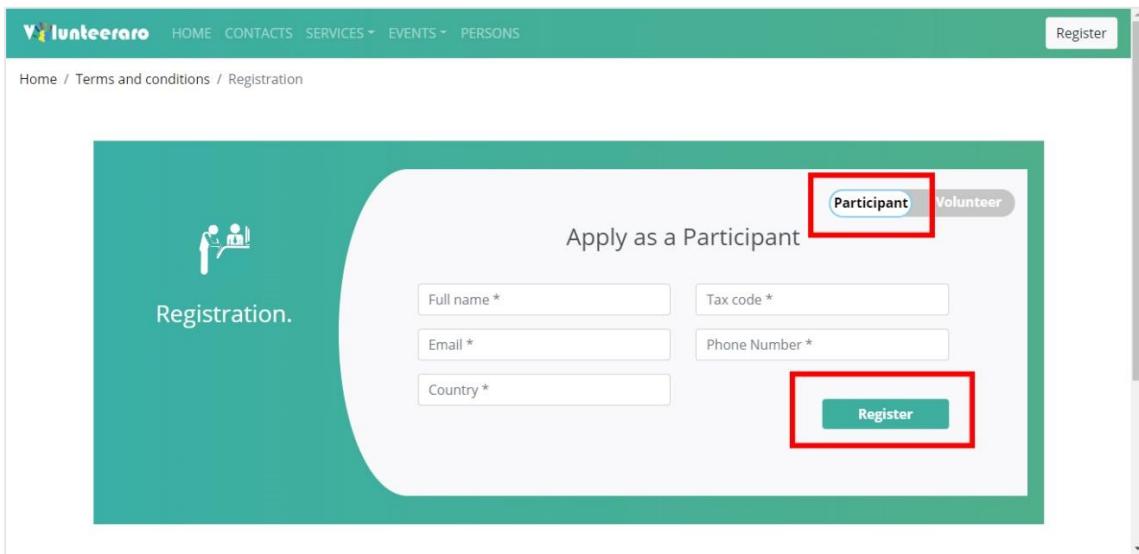


Image 19: Case 3, step 5: clicking on “participant” button and press “submit” to be registered

## 4. Design in-the-small

### 4.1. Comments

Every page of the website contains the same header and footer. The headers hold all the landmarks to navigate the website, such as “Home”, “Contact”, “Services”, “Events”, “Persons” and “Register”. The footer holds some useful information about our association, such as our address, social networks, and some information regarding contacting us.

Also, must be considered that this design has been done before the development of the website, so some element may present some changes in the final product in comparison with the design document.

### 4.2. First sketches

Before creating the final wireframes and design for the website we did some preliminary sketches to have a better look about our design and making sure that all the team were in the same page about the design of the application but the final design has changed.

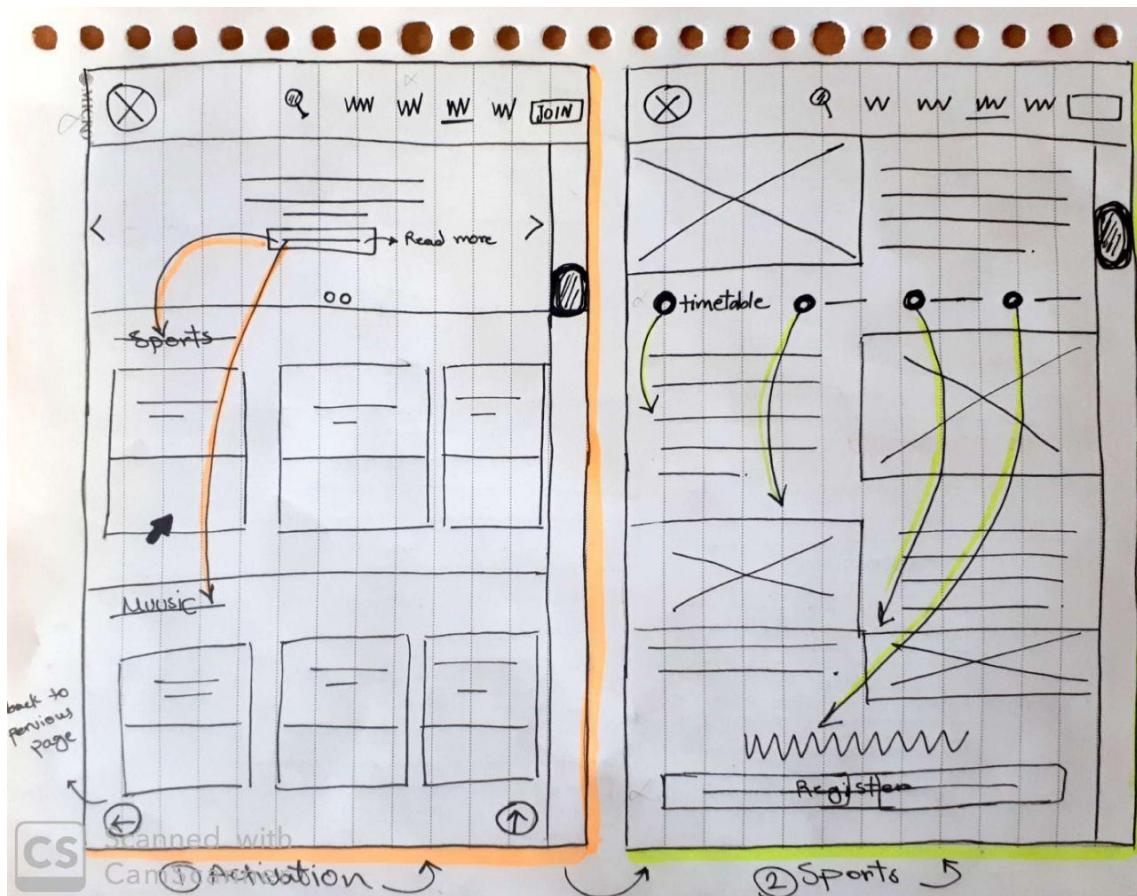


Image 20: First sketches of “Home” and “Service” pages.

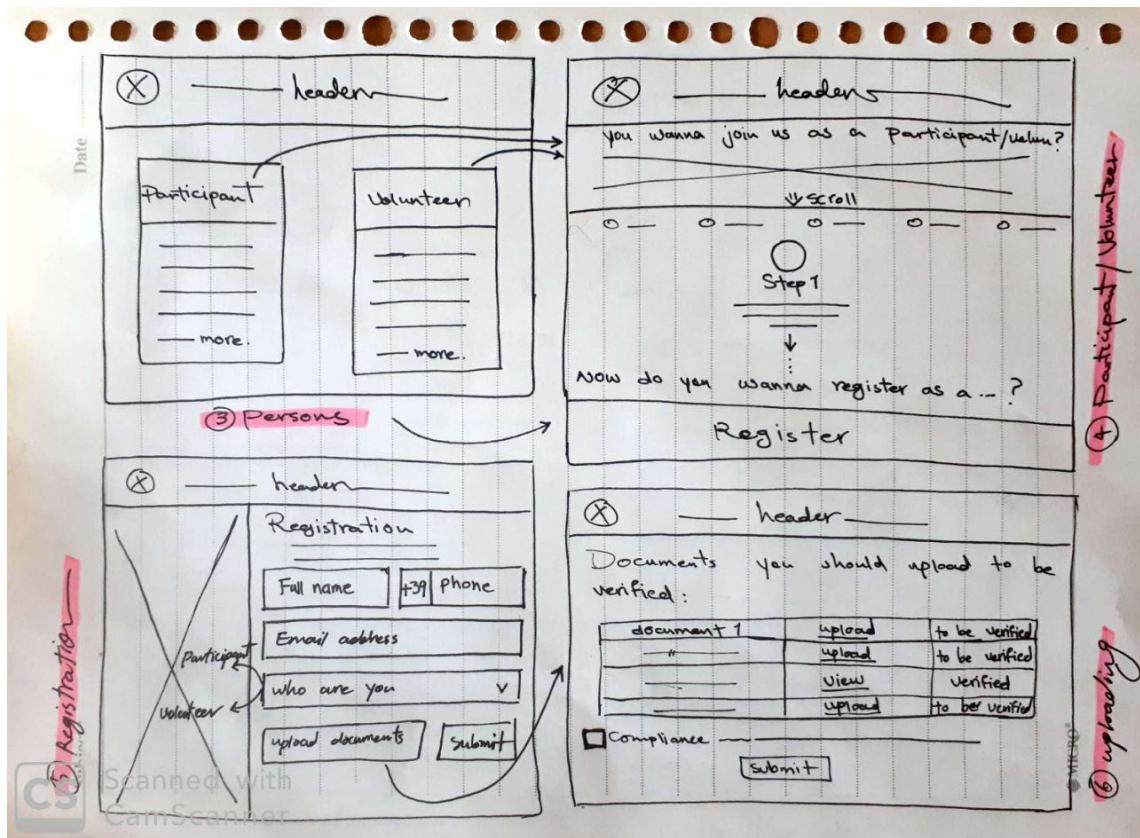


Image 21: First sketches of “Persons” and “Register” pages.

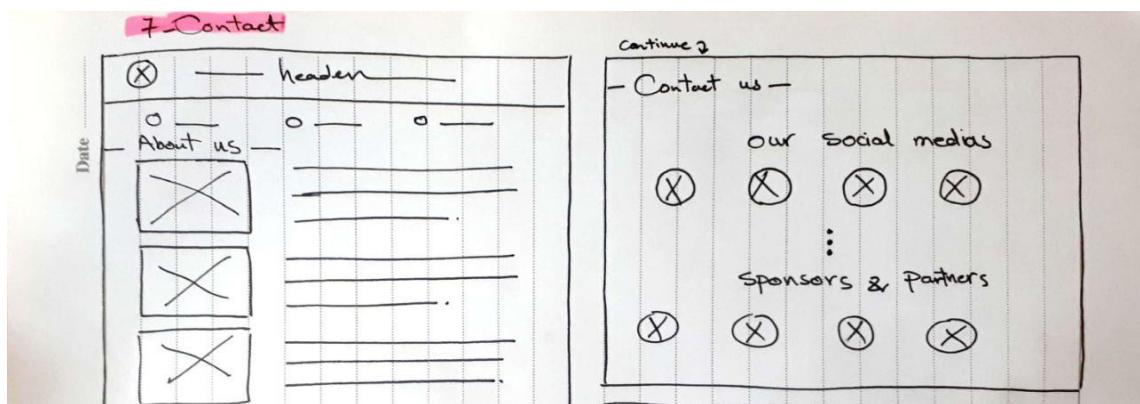
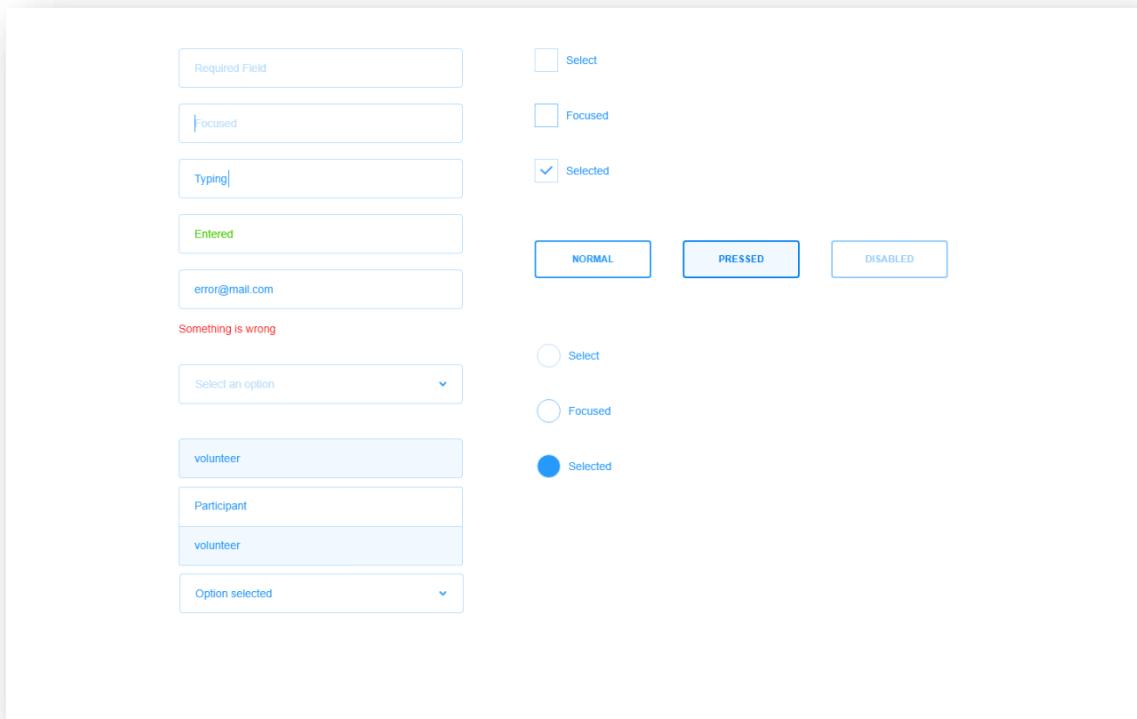


Image 22: First sketches of “Contact”

### 4.3. Elements

In this section of the document we provide some information about the elements use in the wireframes and the designs.



*Image 23: Wireframe elements.*

## 4.4. Home Page

The home page of our association, gives a brief overview of our main categories of the webpage. It is started with a brief description about our website and when you scroll you can see the summery of a whole in one page. For example you can access the latest events just by scrolling down and also we provide the “register” button in every single spot of our web page just to achieve our main goal which is to make people eager to register in our association.

### 4.4.1. Home Page in-the-small

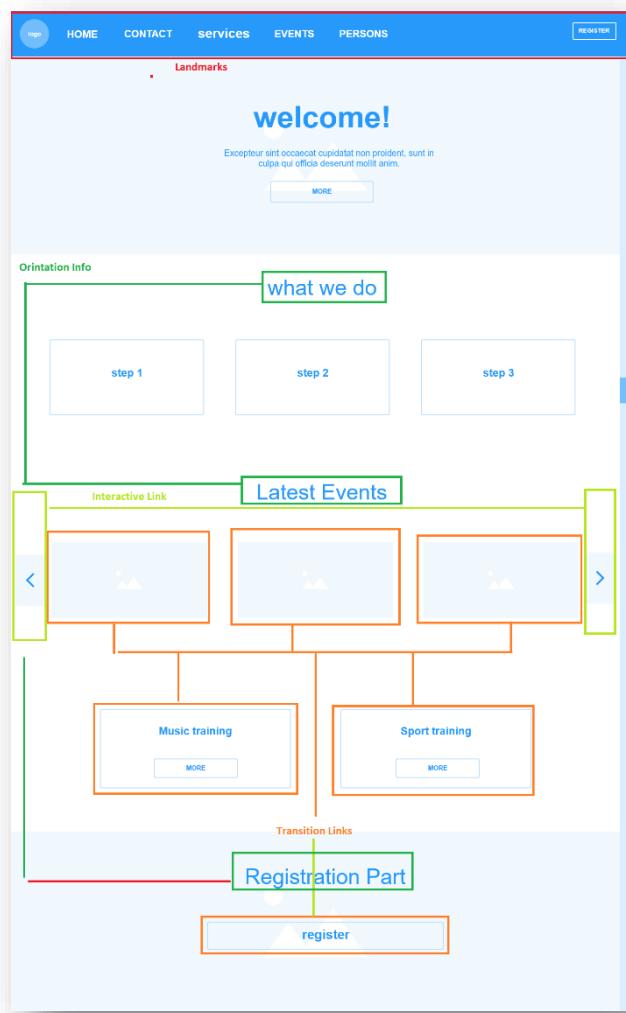


Image 24: Home page in-the-small.

#### 4.4.2. Home Page design

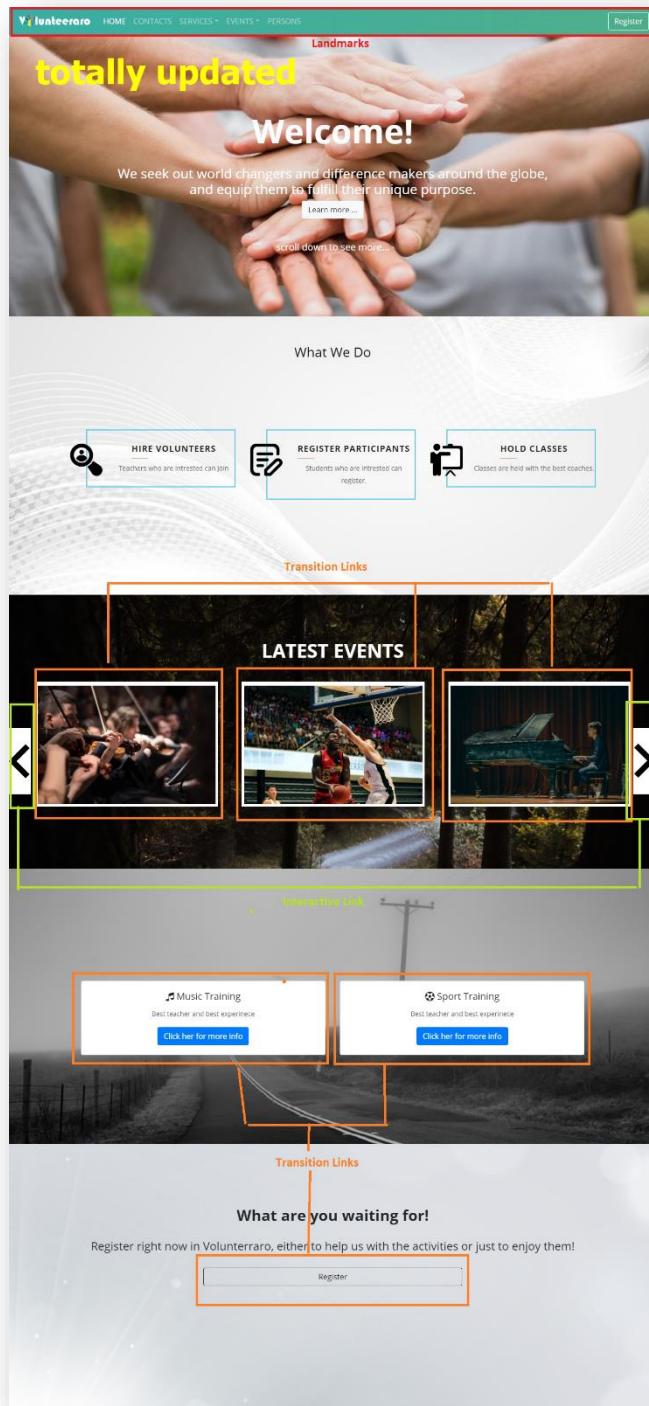
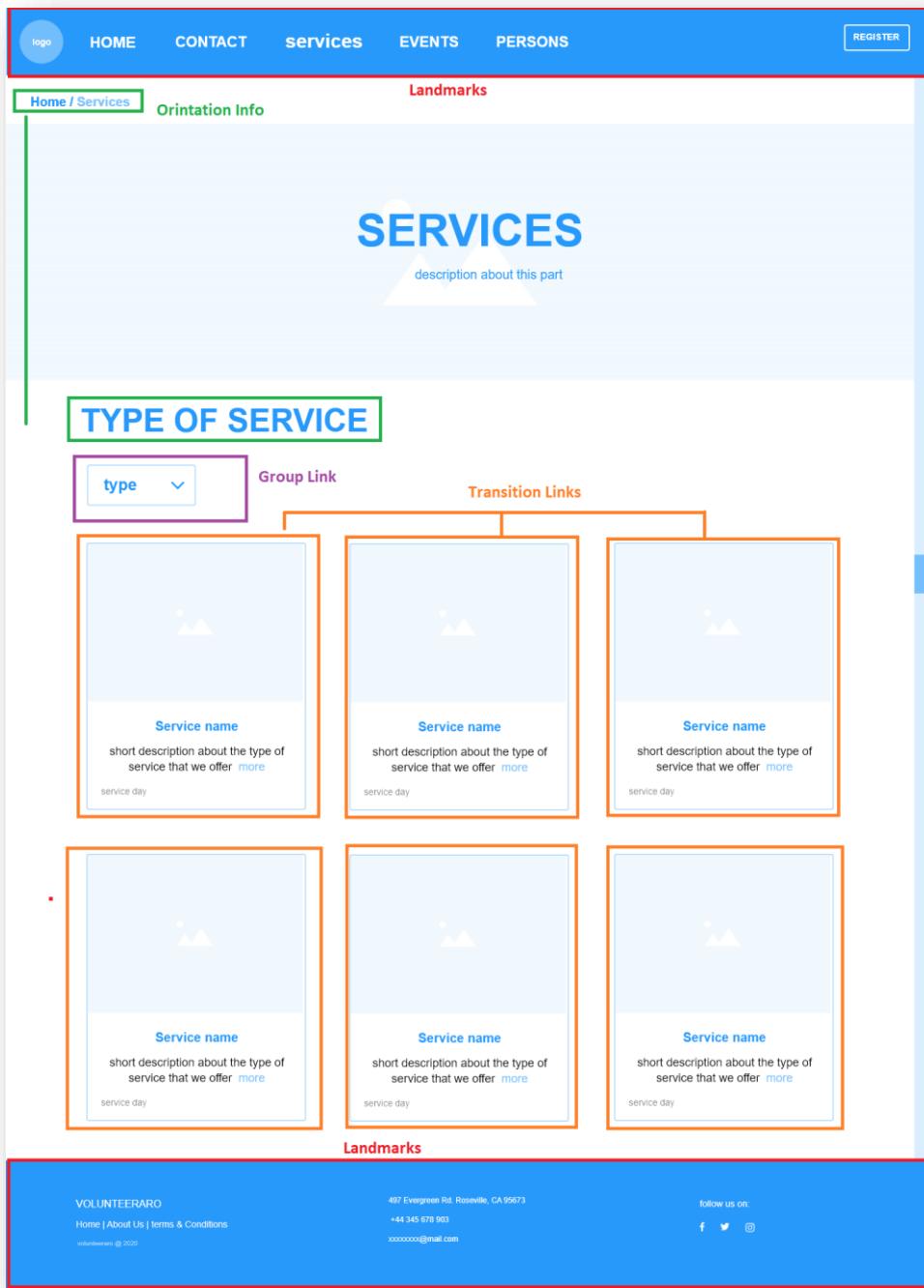


Image 25: Home page design.

## 4.5. All Services Page

When you enter this part you can see all services that are provided in this association. Moreover you can filter the category of services you like which it can be either “sport” or “music” that are available in our website.

### 4.5.1. All Services Page in-the-small



*Image 26: All Services page in-the-small.*

## 4.5.2. All Services Page design

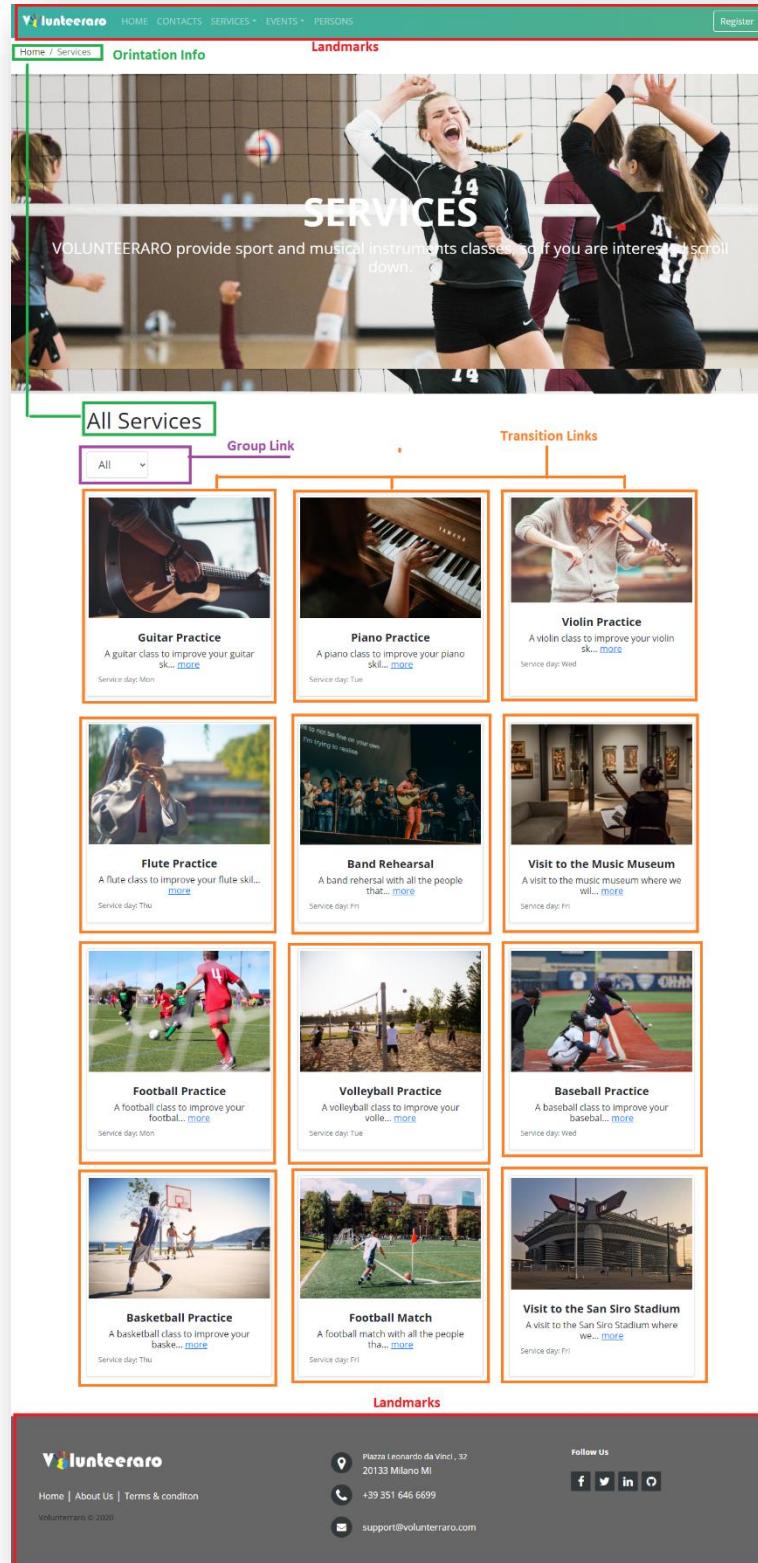
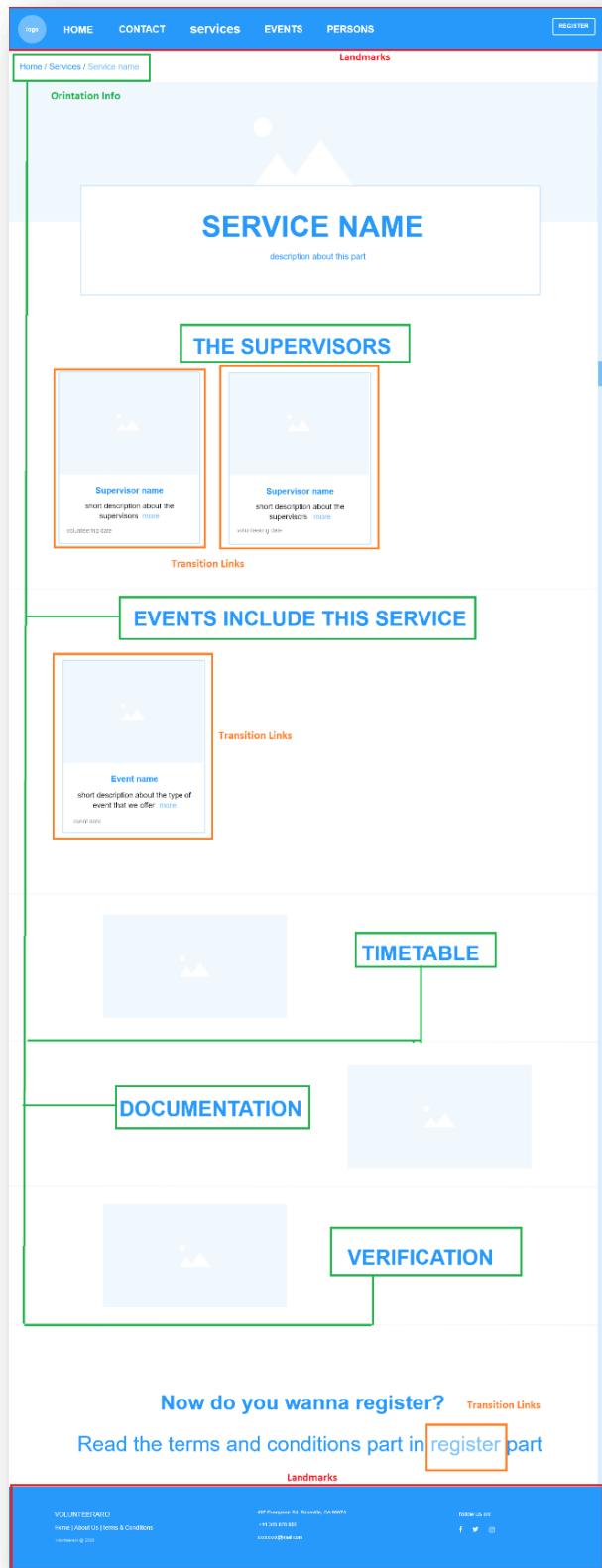


Image 27: All Services page design.

#### 4.6. Service detail Page

In this section, you can see the picture and the complete description of the specific service that you chose. The thing that we did to make our user experiences better in this part is that we link other pages in this page so users can easily navigate between pages without any trouble. For example in this page we provide “supervisors” and “events” section to link this page to relevant “Events” and “Persons” page. In addition at the bottom of the page there is some information about the service you chose and then guide you to the registration part

### 4.6.1. Service Detail Page in-the-small



*Image 28: Service detail page in-the-small.*

## 4.6.2. Service Detail Page design

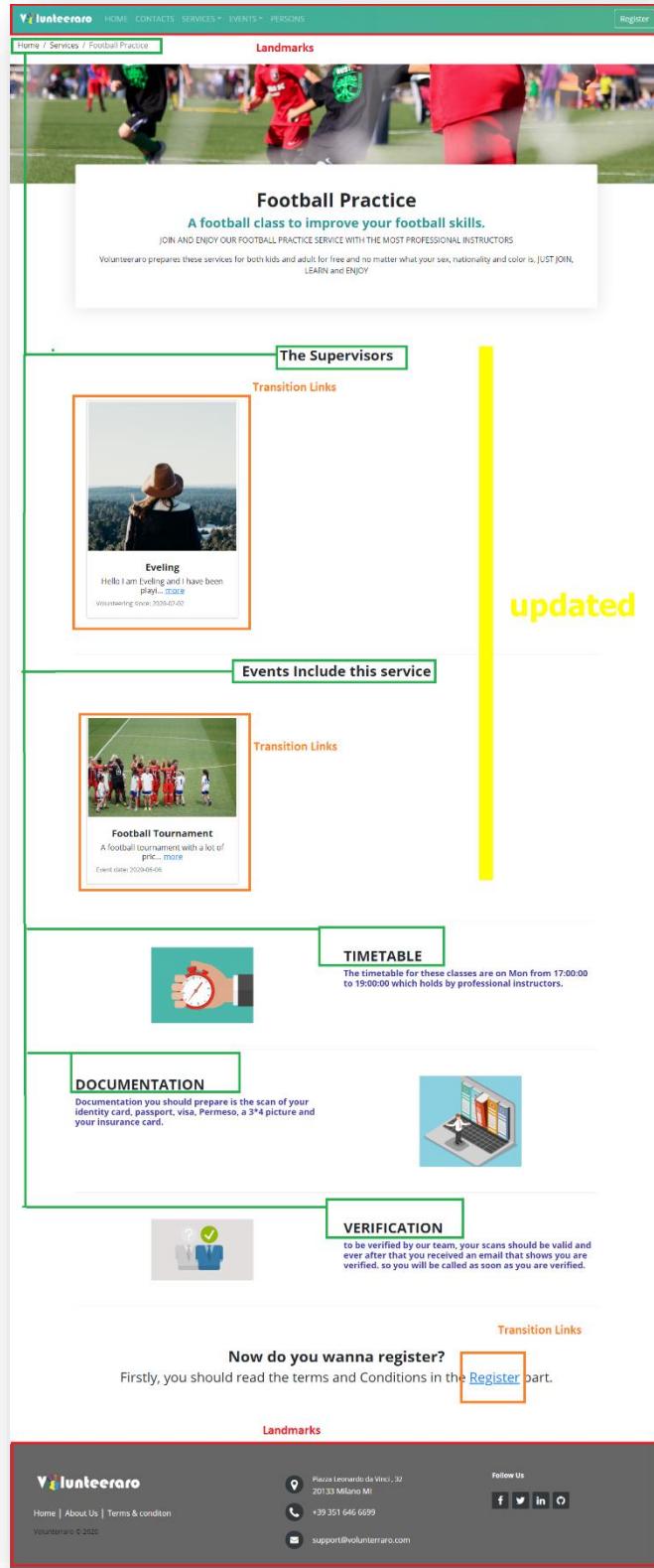


Image 29: Service detail page design.

## 4.7. Terms and conditions Page

This part leads the users to have more clear steps to register in the field they want. It provides “documents”, “verification” and “timing” information and then the registration part.

### 4.7.1. Terms and conditions Page in-the-small

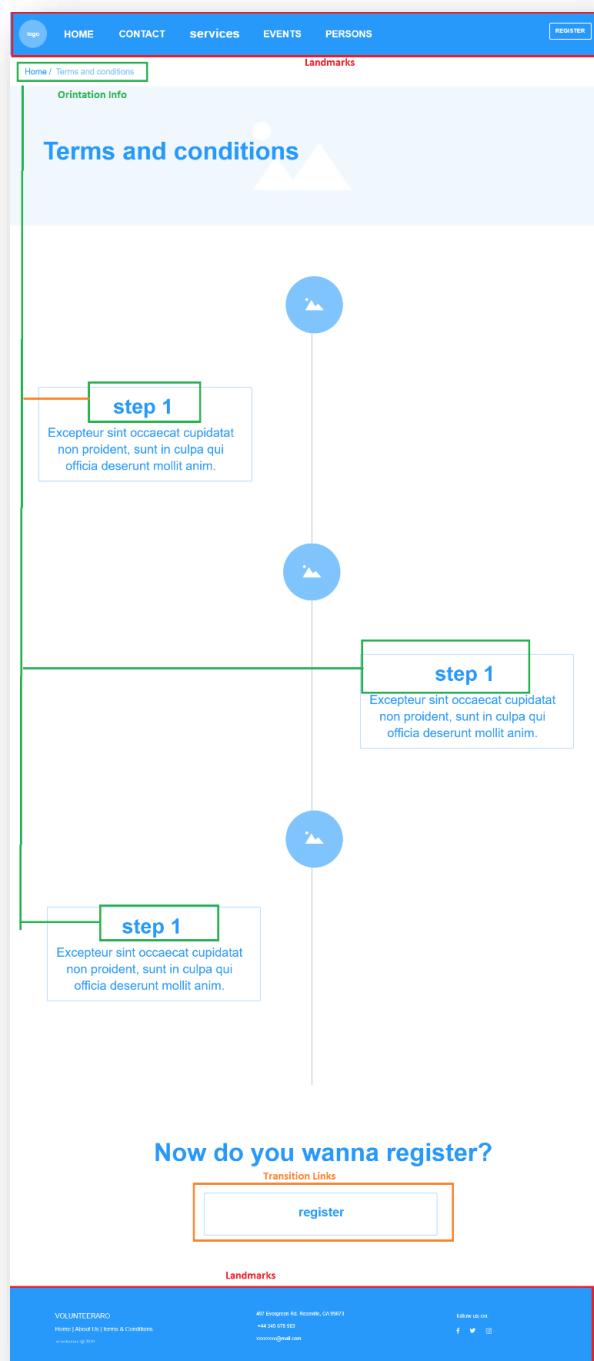


Image 30: Terms and conditions page in-the-small.

#### 4.7.2. Terms and conditions Page design

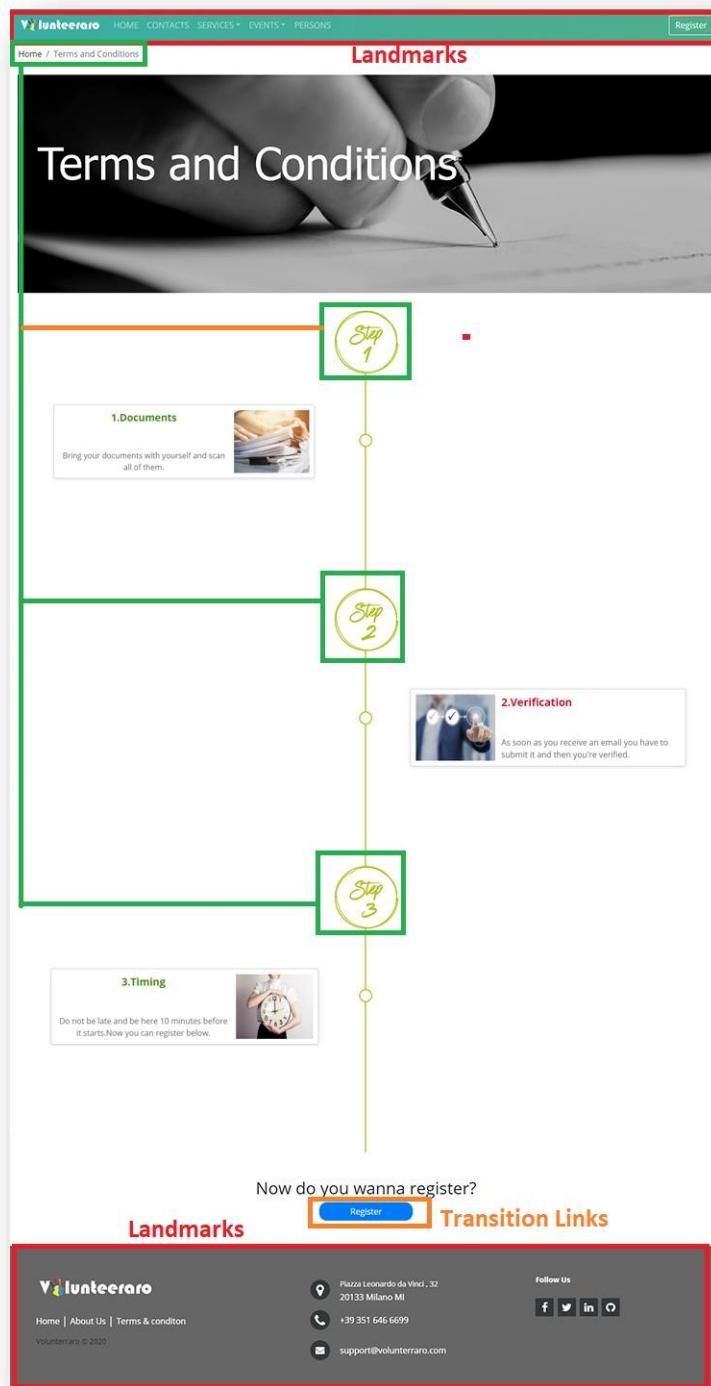
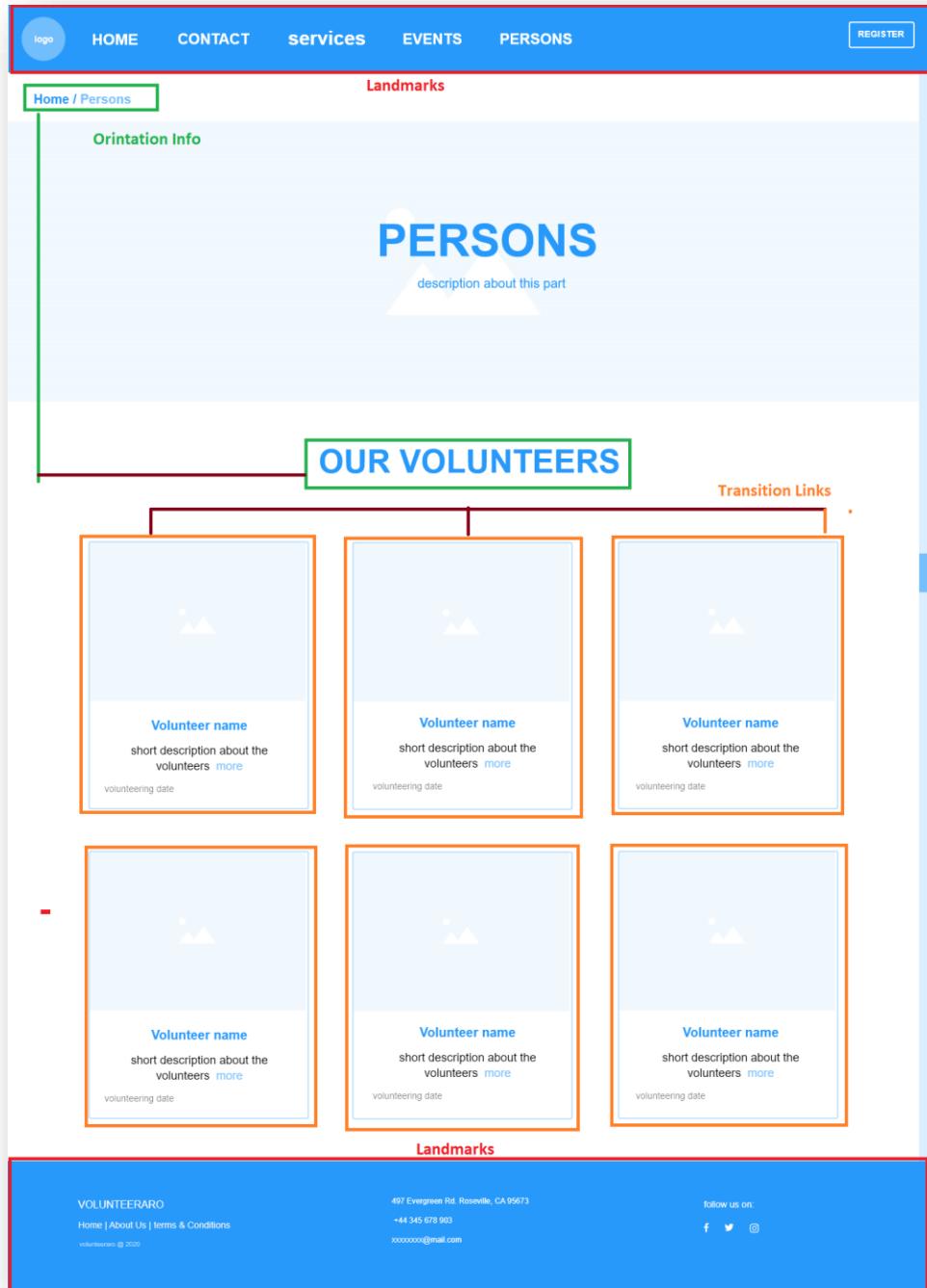


Image 31: Terms and conditions page design.

## 4.8. Persons Page

In this section we introduce our volunteers (coaches) whom they work with us.

### 4.8.1. Persons Page in-the-small



*Image 32: Persons page in-the-small.*

## 4.8.2. Persons Page design

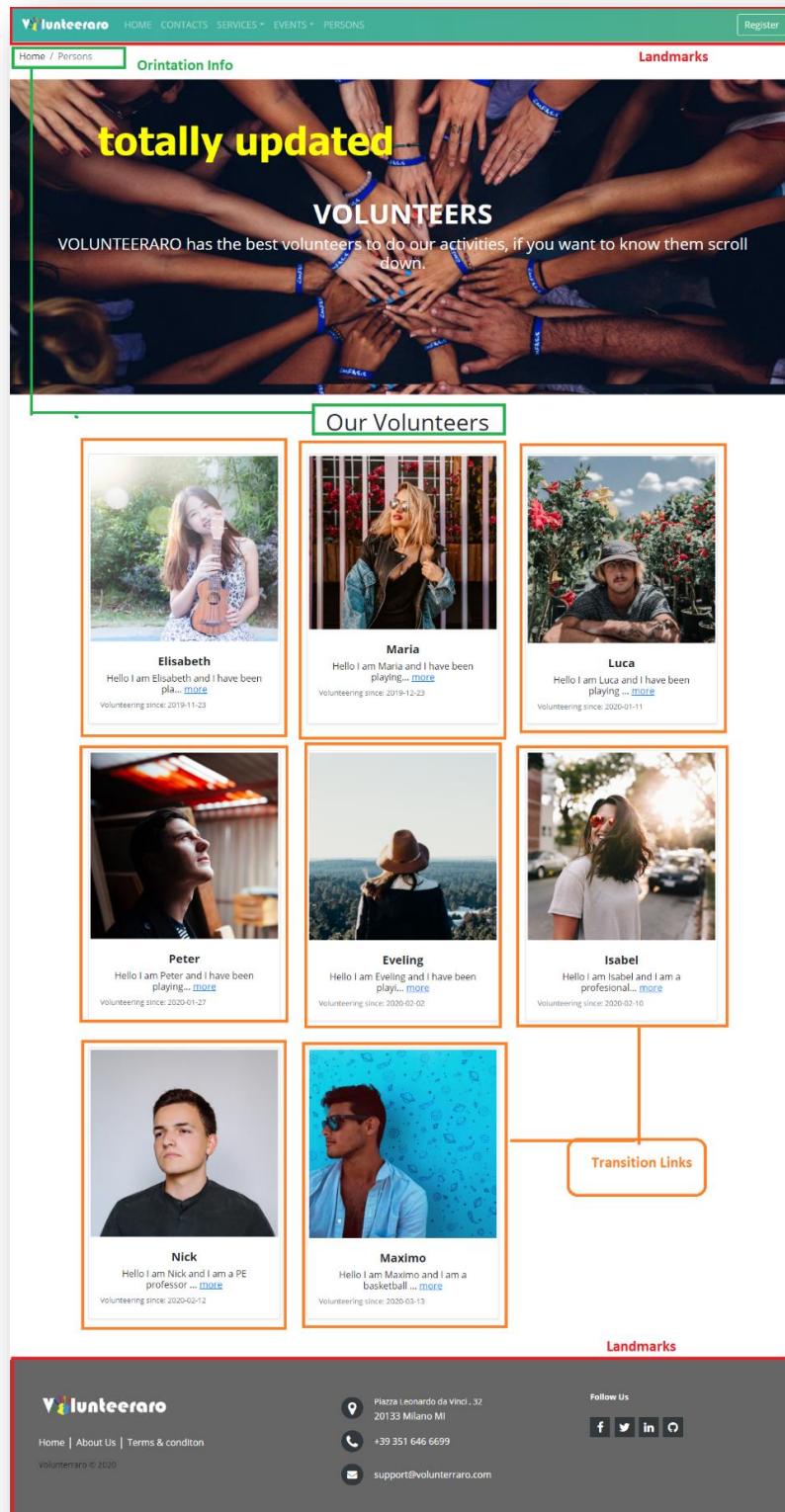


Image 33: Persons page design.

## 4.9. Persons Detail Page

Here you can find a short description about our coaches information and also you can see the services an events that are held by these coaches.

### 4.9.1. Persons Detail Page in-the-small

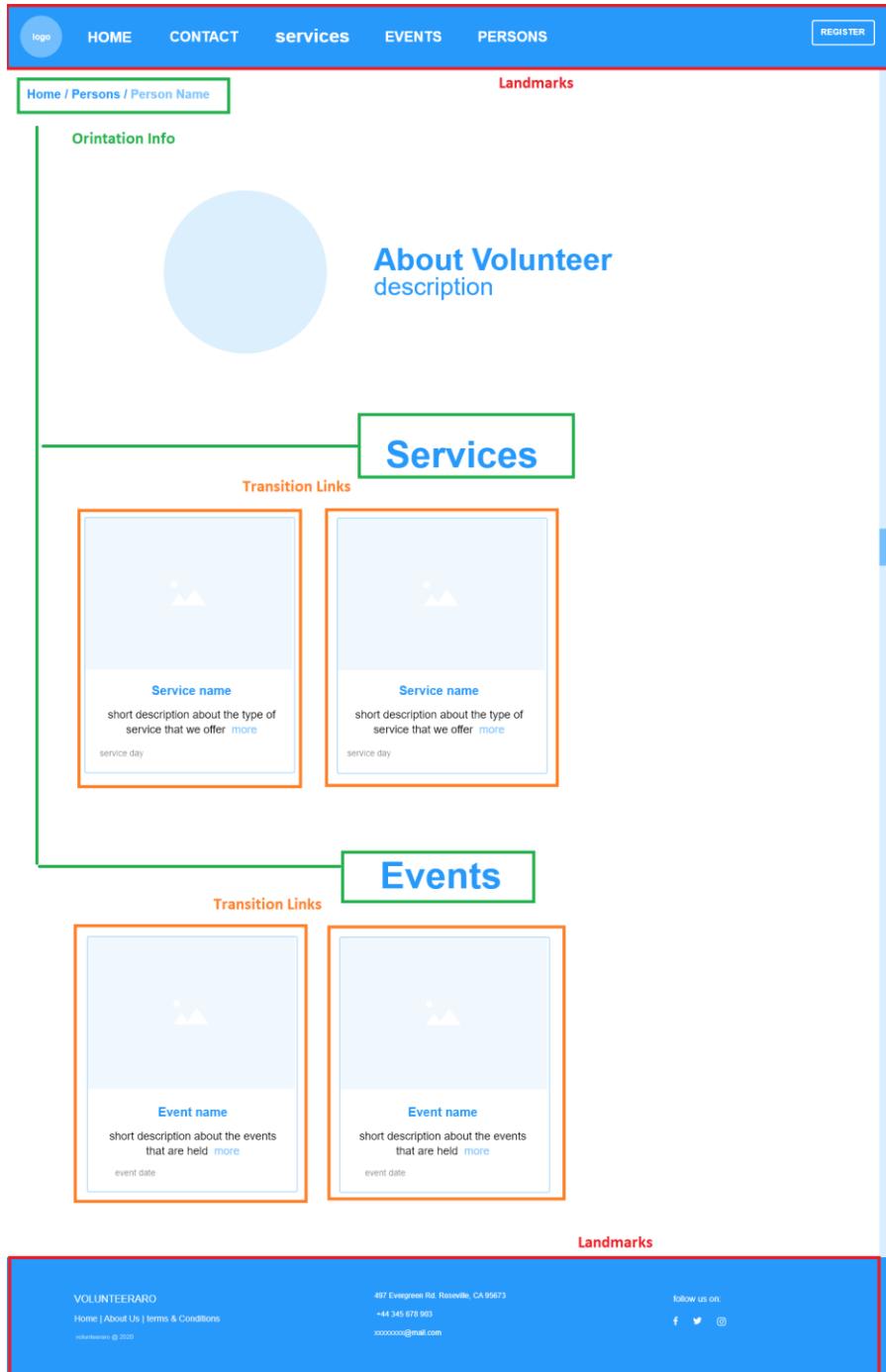


Image 34: Persons detail page in-the-small.

## 4.9.2. Persons Detail Page design

**Landmarks**

**About Elisabeth**

Personal description: "Hello I am Elisabeth and I have been playing guitar for 5 years."  
Volunteering since: 2019-11-23  
Contact email: "elisabeth.martin@gmail.com"

**Services**

**Transition Links**

**Guitar Practice**  
A guitar class to improve your guitar skills... [more](#)  
Service day: Mon

**Visit to the Music Museum**  
A visit to the music museum where we will... [more](#)  
Service day: Fri

**Events**

**Transition Links**

**Romeo and Juliet Musical**  
A musical of the classic work Romeo and Juliet... [more](#)  
Event date: 2020-05-24

**Piano Recital**  
A piano recital from all the piano classes... [more](#)  
Event date: 2020-06-07

**Landmarks**

**Follow Us**

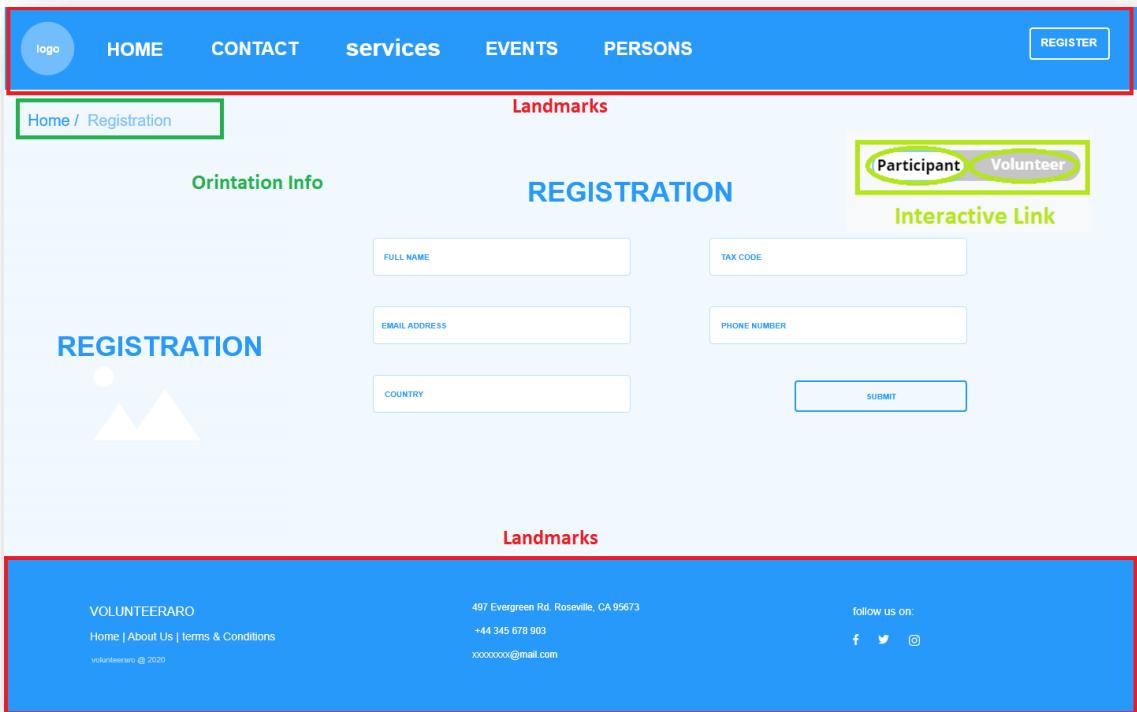
Piazza Leonardo da Vinci, 32  
20133 Milano MI  
+39 351 646 6699  
support@volunterraro.com

Image 35: Persons detail page design.

## 4.10. Registration Page

In the registration part you choose to be a volunteer or participant and then filling out the forms and submitting and waiting for an email for verification.

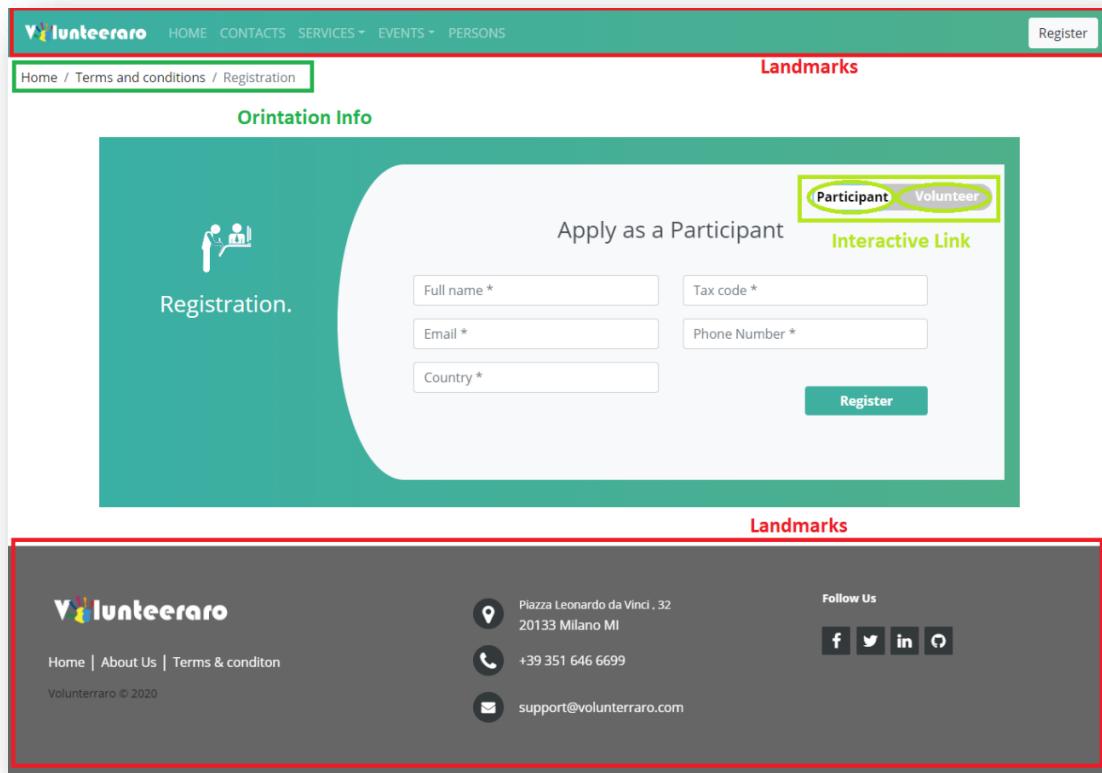
### 4.10.1. Registration Page in-the-small



The image shows a wireframe of a registration page. At the top, there is a blue header bar with a logo, navigation links (HOME, CONTACT, services, EVENTS, PERSONS), and a 'REGISTER' button. Below the header, the main content area has a white background. On the left, there is a sidebar with 'Orientation Info' and a 'REGISTRATION' section featuring a small sun and mountain icon. In the center, there is a 'REGISTRATION' section with input fields for FULL NAME, TAX CODE, EMAIL ADDRESS, PHONE NUMBER, and COUNTRY, along with a 'SUBMIT' button. To the right, there is a 'Landmarks' section with two green ovals labeled 'Participant' and 'Volunteer'. Below these ovals is a 'Interactive Link' section. At the bottom, there is a footer section with 'Landmarks' and social media links for Facebook, Twitter, and Instagram. The footer also contains copyright information for VOLUNTEERARO and a contact address: 497 Evergreen Rd, Roseville, CA 95673, +44 345 678 903, and xxxxxxx@mail.com.

*Image 36: Registration page in-the-small.*

## 4.10.2. Registration Page design



The screenshot shows the registration page for the Volunteeraro website. At the top, there is a navigation bar with links for HOME, CONTACTS, SERVICES, EVENTS, PERSONS, and a Register button. Below the navigation bar, a breadcrumb trail shows the user is at Home / Terms and conditions / Registration. A red box highlights the 'Landmarks' section on the right.

The main content area has a teal background and features a registration form. On the left, there is a sidebar with the text "Registration." and a small icon of two people. The main form is titled "Orientation Info" and contains fields for "Full name \*", "Tax code \*", "Email \*", "Phone Number \*", and "Country \*". To the right of these fields is a green box labeled "Interactive Link" containing the text "Participant" and "Volunteer" with a green arrow between them. A "Register" button is located at the bottom right of the form area. The entire registration form is enclosed in a white rounded rectangle.

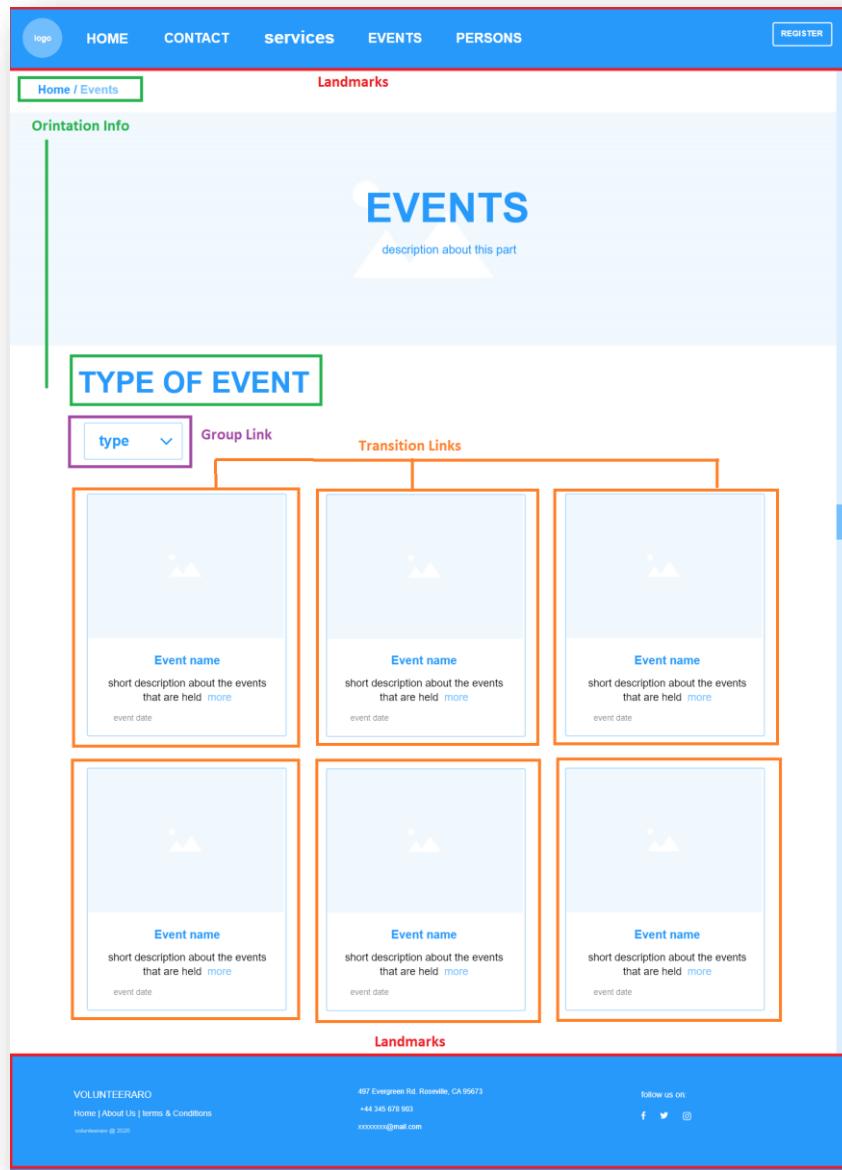
At the bottom of the page, there is a footer with the Volunteeraro logo, links to Home, About Us, and Terms & conditions, and copyright information. It also includes contact details (Piazza Leonardo da Vinci, 32, 20133 Milano MI; +39 351 646 6699; support@volunterraro.com) and social media links for Facebook, Twitter, LinkedIn, and YouTube. A red box highlights the "Landmarks" section on the right.

Image 37: Registration page design.

## 4.11. Events Page

The structure of “events” and “services” part are almost the same, so as you saw in the “services” part you can see all events or you can filter it by month of those events.

### 4.11.1. Events Page in-the-small



*Image 38: Events page in-the-small.*

#### 4.11.2. Events Page design

**Events**

VOLUNTEERARO organizes a lot of events for everyone to have fun, so if you are interested in our events scroll down.

**All Events**

**Group Link**

**Transition Links**

**Romeo and Juliet Musical**  
A musical of the classic work Romeo and... [more](#)  
Event date: 2020-05-24

**The Lion King Musical**  
A musical of the popular Disney film The... [more](#)  
Event date: 2020-05-31

**Piano Recital**  
A piano recital from all the piano class... [more](#)  
Event date: 2020-06-07

**Violin Recital**  
A violin recital from all the violin cla... [more](#)  
Event date: 2020-06-14

**Inter - Real Madrid Football Match**  
We will watch an official football match... [more](#)  
Event date: 2020-05-23

**Inter - FC Barcelona Football Match**  
We will watch an official football match... [more](#)  
Event date: 2020-05-30

**Football Tournament**  
A football tournament with a lot of pric... [more](#)  
Event date: 2020-06-06

**Basketball Tournament**  
A basketball tournament with a lot of pric... [more](#)  
Event date: 2020-06-13

**Landmarks**

Volunterraro  
Home | About Us | Terms & condition  
Volunterraro © 2020

Piazza Leonardo da Vinci , 32  
20133 Milano MI  
+39 351 646 6699  
support@volunterraro.com

Follow Us  
[f](#) [t](#) [in](#) [o](#)

**all the page updated**

Image 39: Events page design.

## 4.12. Events Detail Page

Here you can find the relevant supervisors and services and a description about that specific event. Also the timetable and an exact location is provided which make users feel more comfortable to find the place.

### 4.12.1. Events Detail Page in-the-small

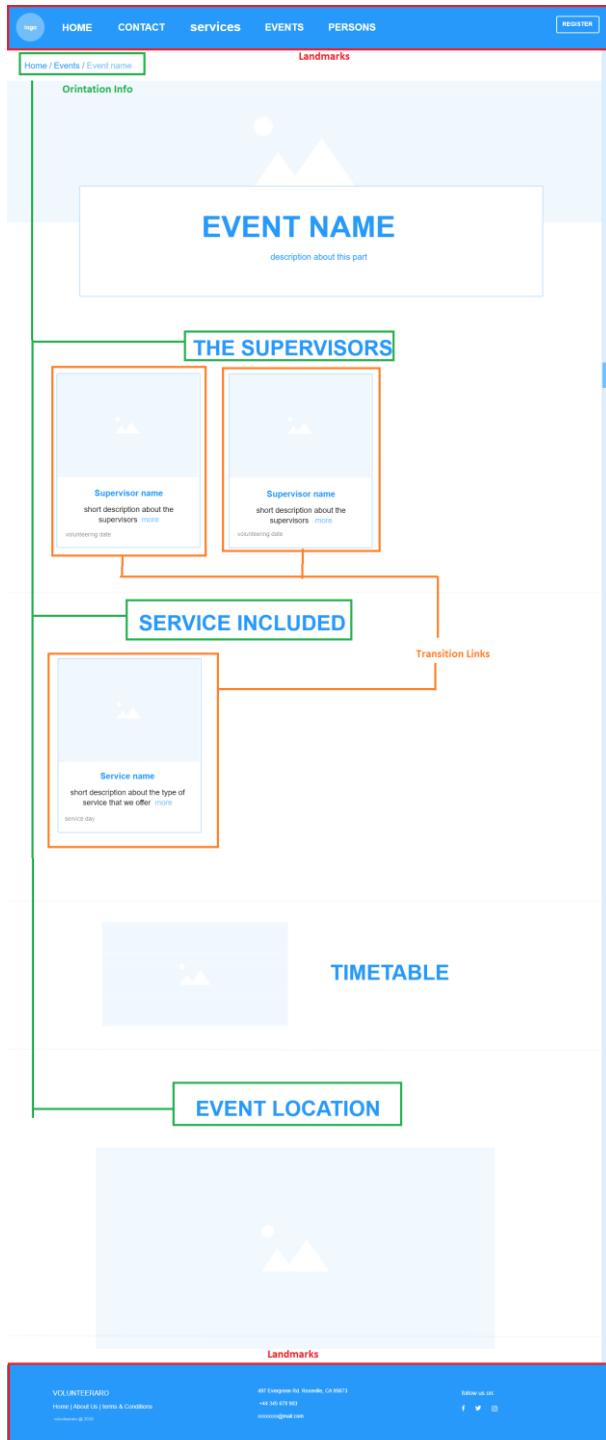


Image 40: Events detail page in-the-small.

## 4.12.2. Events Detail Page design

The screenshot shows the 'Events Detail Page' for the 'Romeo and Juliet Musical'. The page is structured as follows:

- Header:** Volunterraro logo, navigation menu (HOME, CONTACTS, SERVICES+, EVENTS+, PERSONS), Register button.
- Banner:** A large image of the cast of the musical.
- Section Headers:**
  - Orientation Info:** Contains the event title 'Romeo and Juliet Musical' and a brief description: 'A musical of the clasic work Romeo and Juliet.'
  - Landmarks:** Contains a map showing the location of the Arcimboldi Theater.
- Content Area:**
  - Manage By:** Shows two profiles: Elisabeth and Maria, each with a photo, name, bio, and volunteering history.
  - Services Included:** A section stating 'No services for this event'.
  - TIMETABLE:** An icon of a hand holding a stopwatch, with text indicating the event date is 2020-05-24 and duration is from 15:00:00 to 17:00:00.
  - LOCATION:** A map of the area around the Arcimboldi Theater.
  - Landmarks:** Footer links including Home, About Us, Terms & condition, support@volunterraro.com, and social media icons for Facebook, Twitter, LinkedIn, and YouTube.

Image 41: Events page design.

## 4.13. Contact Us Page

Here you can find about web developers social medias and a description about their job positions. In addition if you want to be in touch with us you can find the form at the bottom of the page and feel free to contact us at any issue or critics.

### 4.13.1. Contact Us Page in-the-small

Orientation Info

**ABOUT US**

Landmarks

Name Surname  
Co-Founder & CTO

Name Surname  
Co-Founder & CTO

Name Surname  
Co-Founder & CTO

**contact us**

first name

last name

Email

Your message

submit

Landmarks

VOLUNTEERARO  
Home | About Us | Terms & Conditions  
volunteeraro © 2020

497 Evergreen Rd, Roseville, CA 95673  
+44 345 678 903  
xxxxxxxx@mail.com

follow us on:

f t i

Image 42: Contact Us page in-the-small.

### 4.13.2. Contact Us Page design

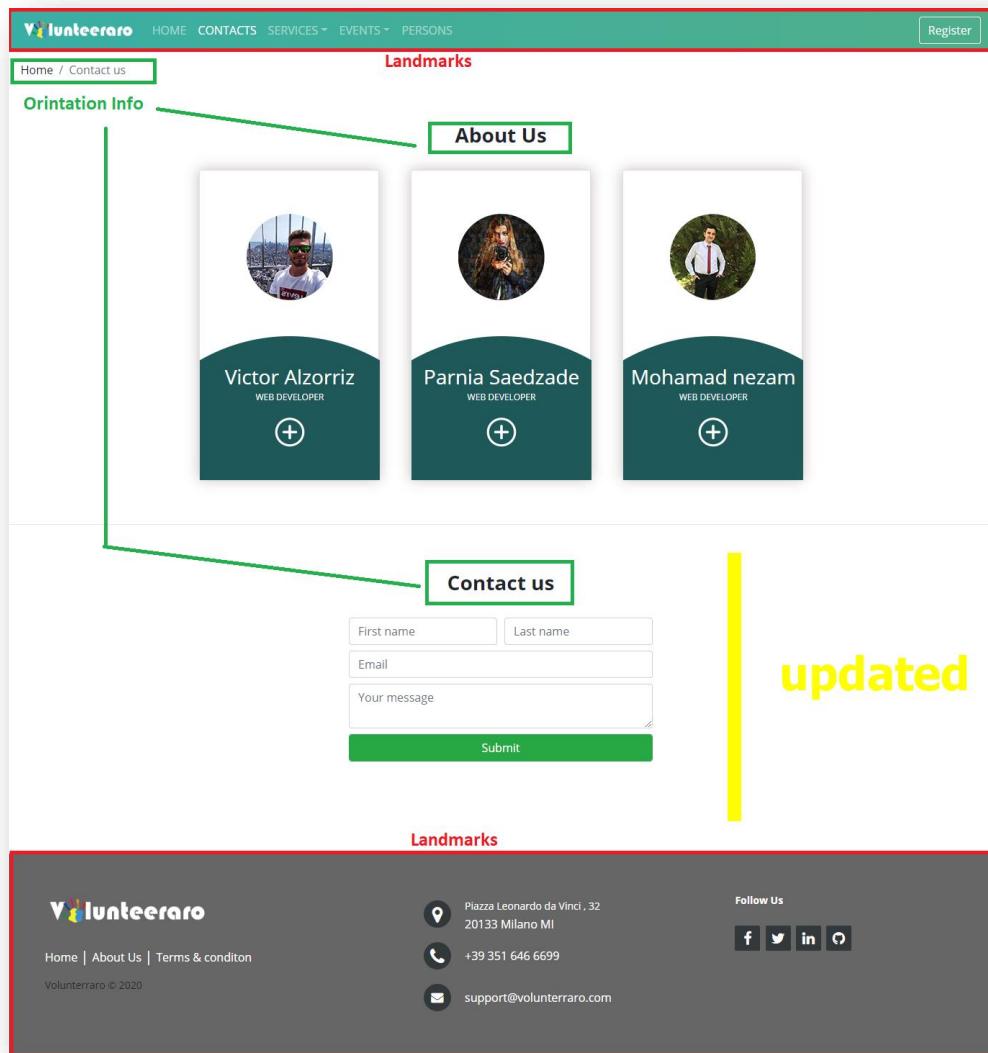


Image 43: Contact Us page design.

## 5. Database design

### 5.1. Entity Relationship Diagram

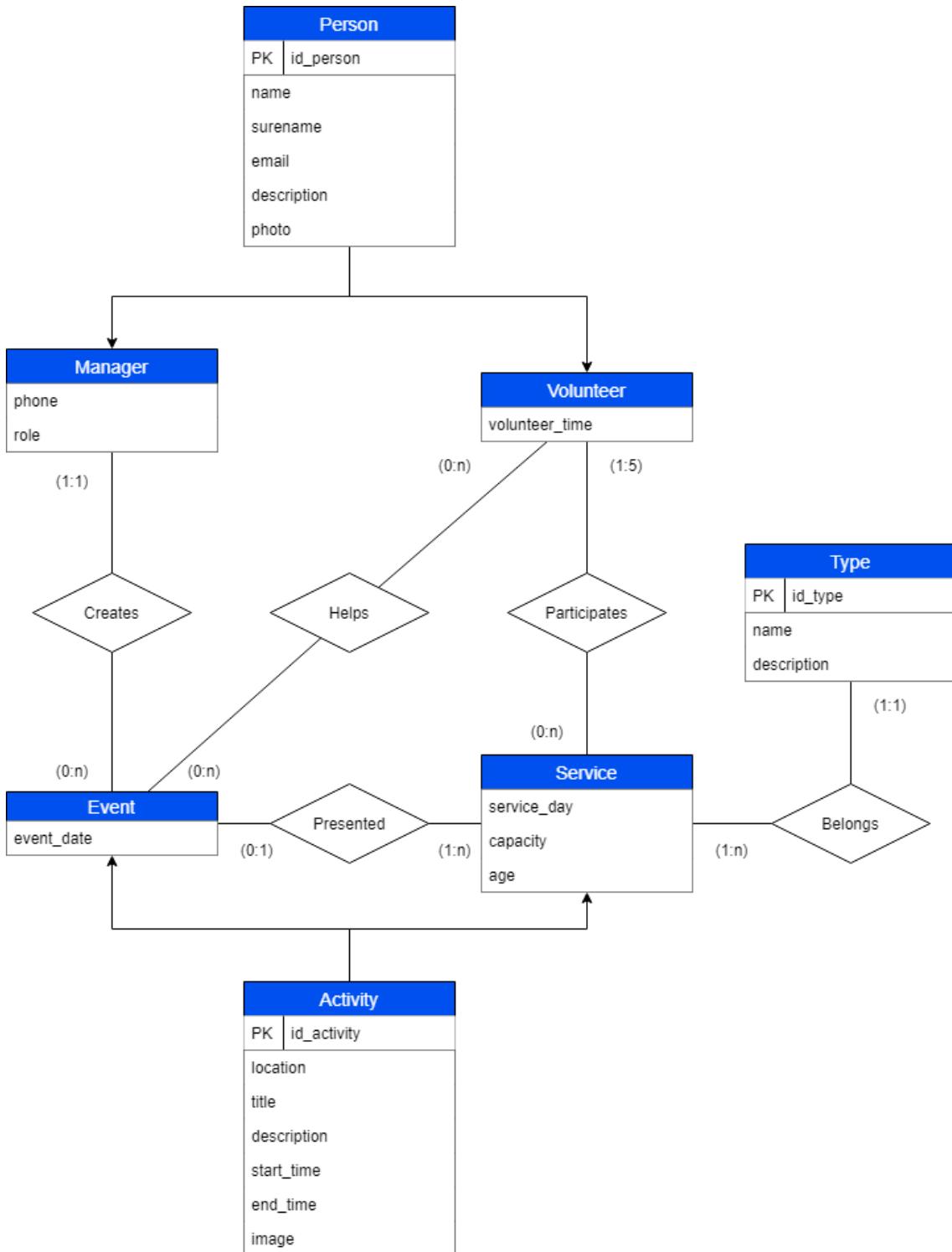


Image 38: Database Entity-Relationship diagram.

## 5.2. Logical design



*Image 39: Database logical design diagram.*