HYPERMEDIA APPLICATIONS 2020

Design Document

Changes in the last version of the Design Document (16/06/2020):

- updated ER and Logical Schema images;
- changed mockups and wireframes in order to correctly represent the implementation of our website: in particular, we updated the Orientation Info in each page;
- typos.

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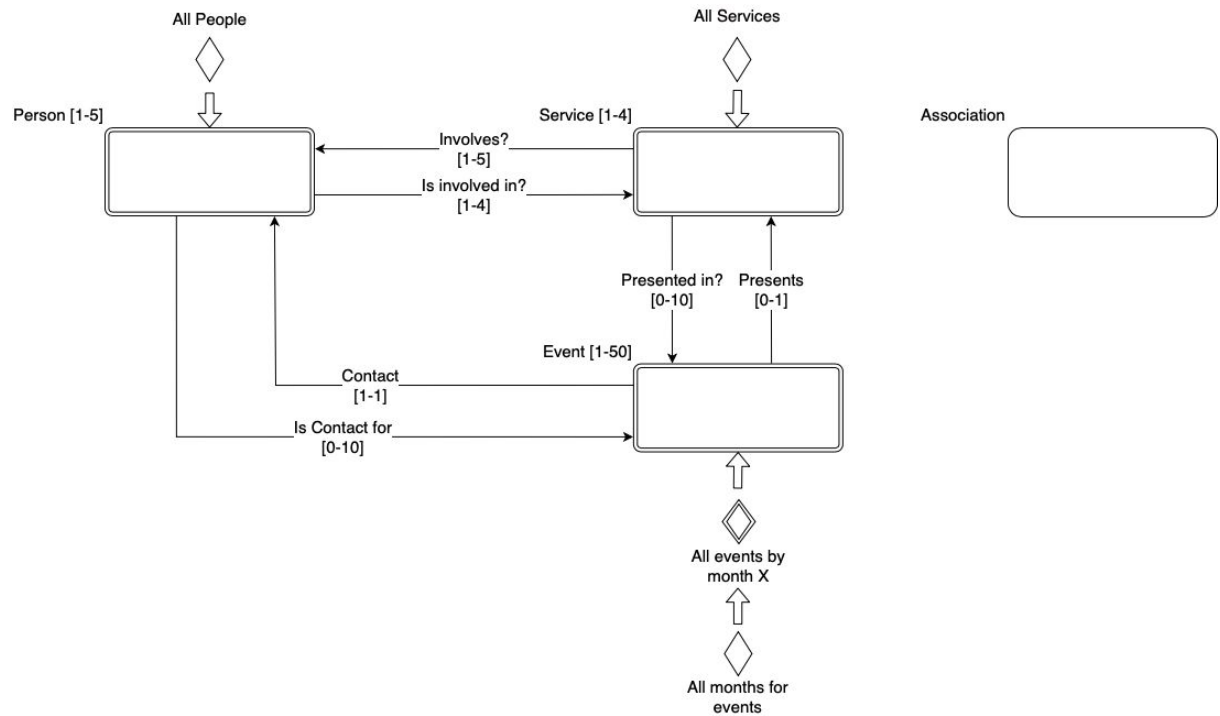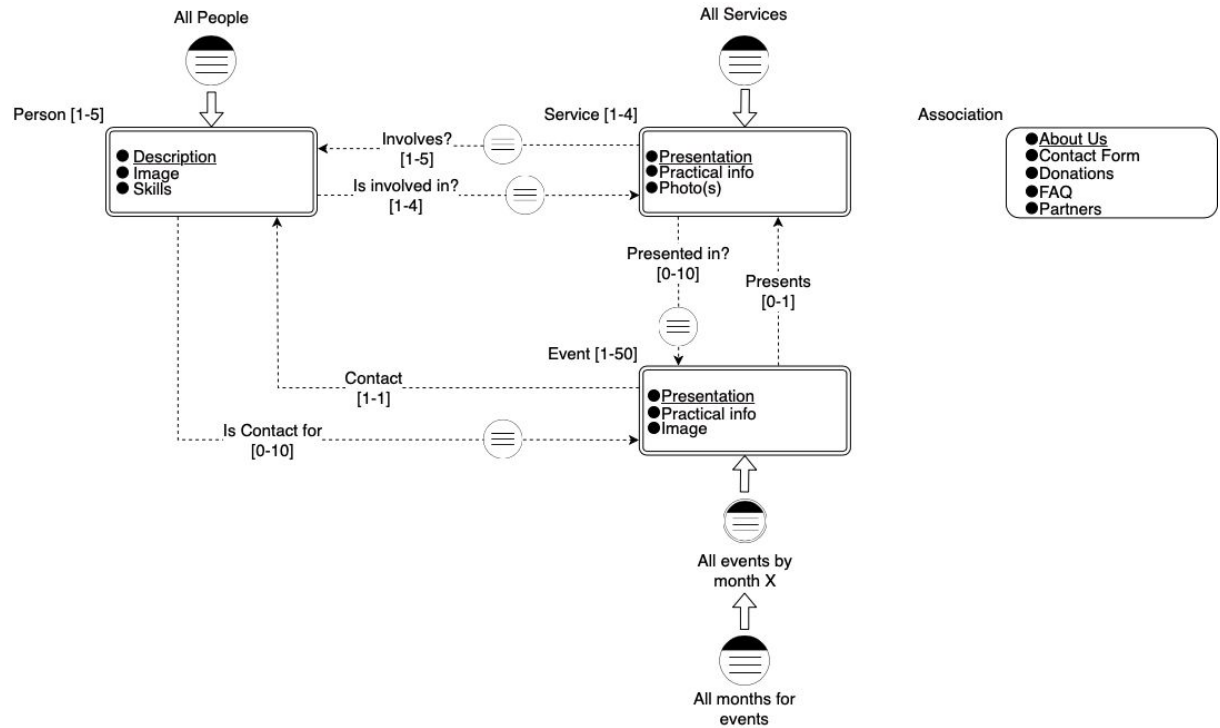
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1 - Abstract

This document provides basic information on the development of a maker lab volunteering association with all the information concerning IDM models (Interactive Dialogue Model). Furthermore the document contains some scenarios to better understand the main ideas behind the website, the design in-the-small concept which provides an implementation of the front-end, an Entity Relationship diagram and a Logical Design schema to describe the structure of the database.
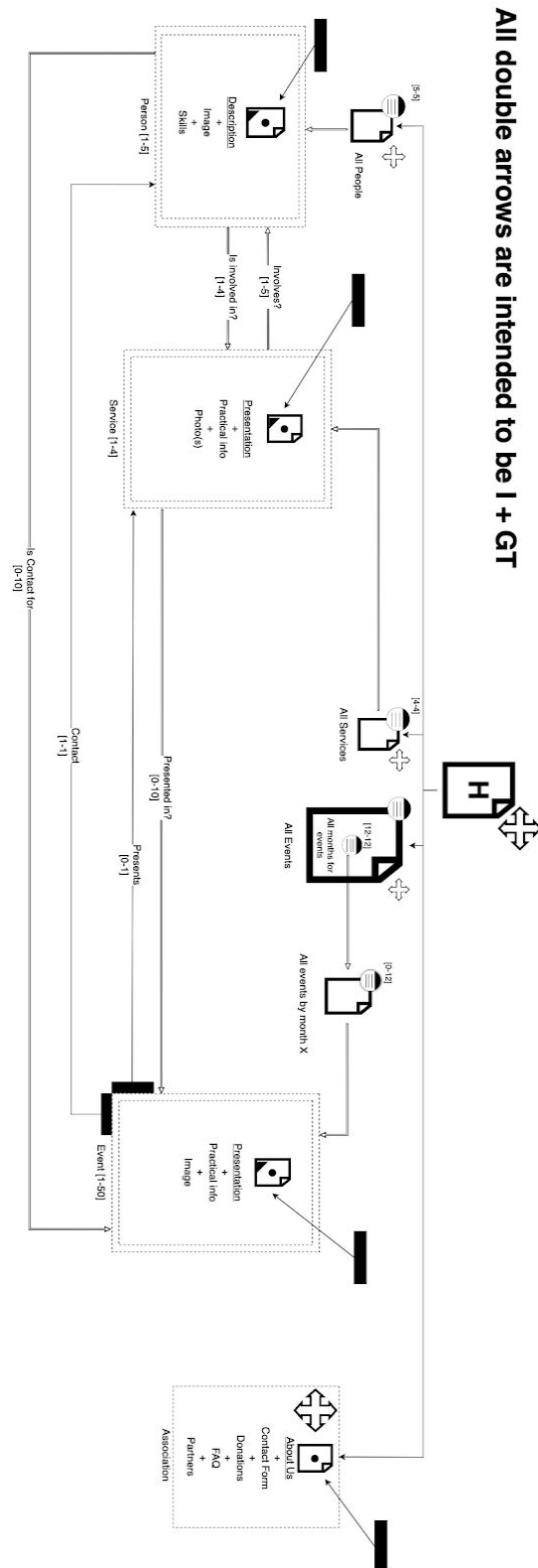
2 - Graphical representations

2.1 - C-IDM

2.2 - L-IDM

2.3 - P-IDM

All double arrows are intended to be I + GT

3 - Interaction scenarios

3.1 - Case 1 - Find an Event

Emily wants to learn how to build her own entertainment unit. She heard from a friend that FreeLab gives free workshops on this topic. She opens a web browser and types the FreeLab url, she's greeted with the home page.

She clicks on "Events" in the navigation bar, and a page with all months opens. After going through her schedule Emily decides to give it a shot this month, if possible. She clicks on April and a new page with all the events of April comes up. After going through the events she finds the workshop she's interested in, by clicking on it now Emily can learn everything about this workshop, what service comprehends and who is organizing it. (figures from 1 to 4)
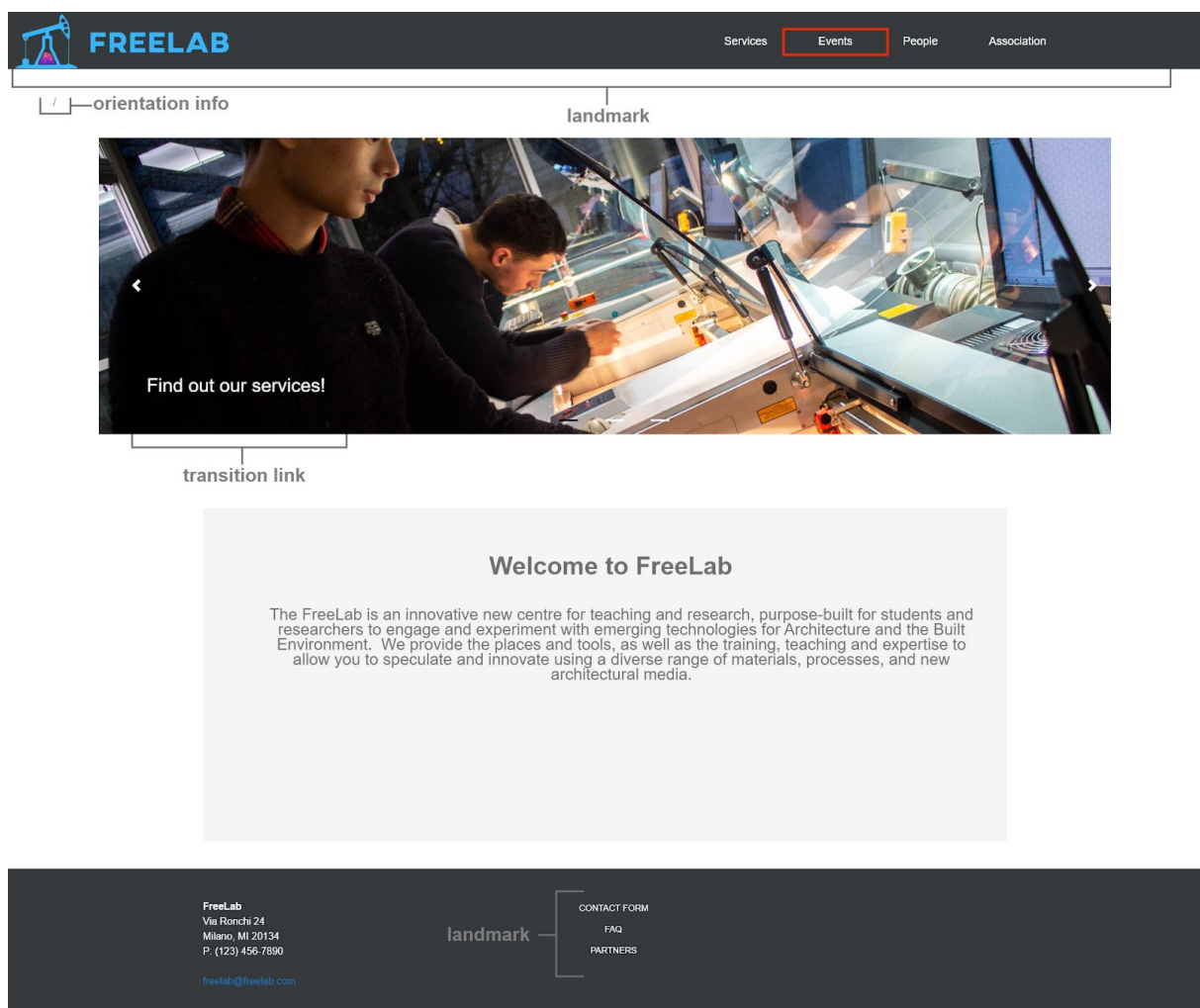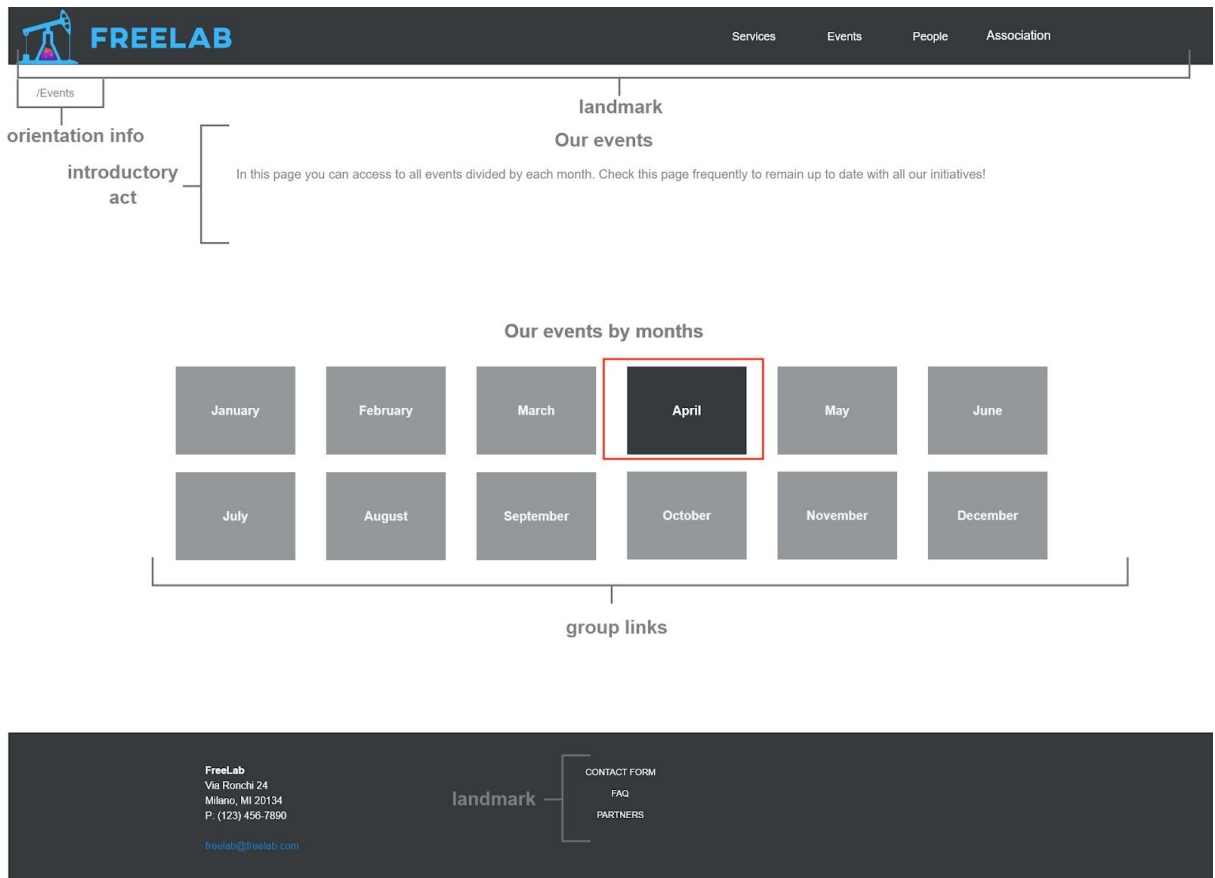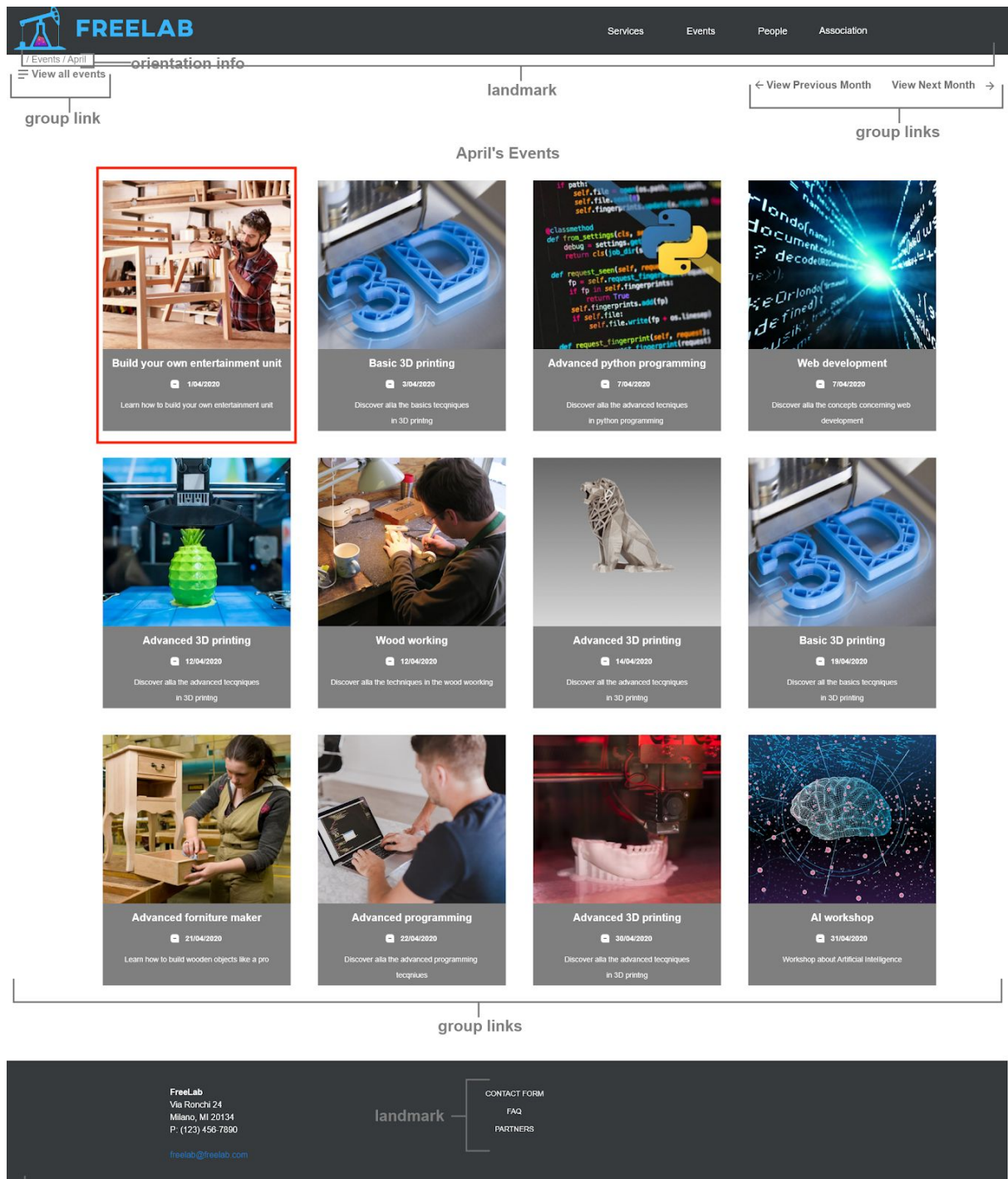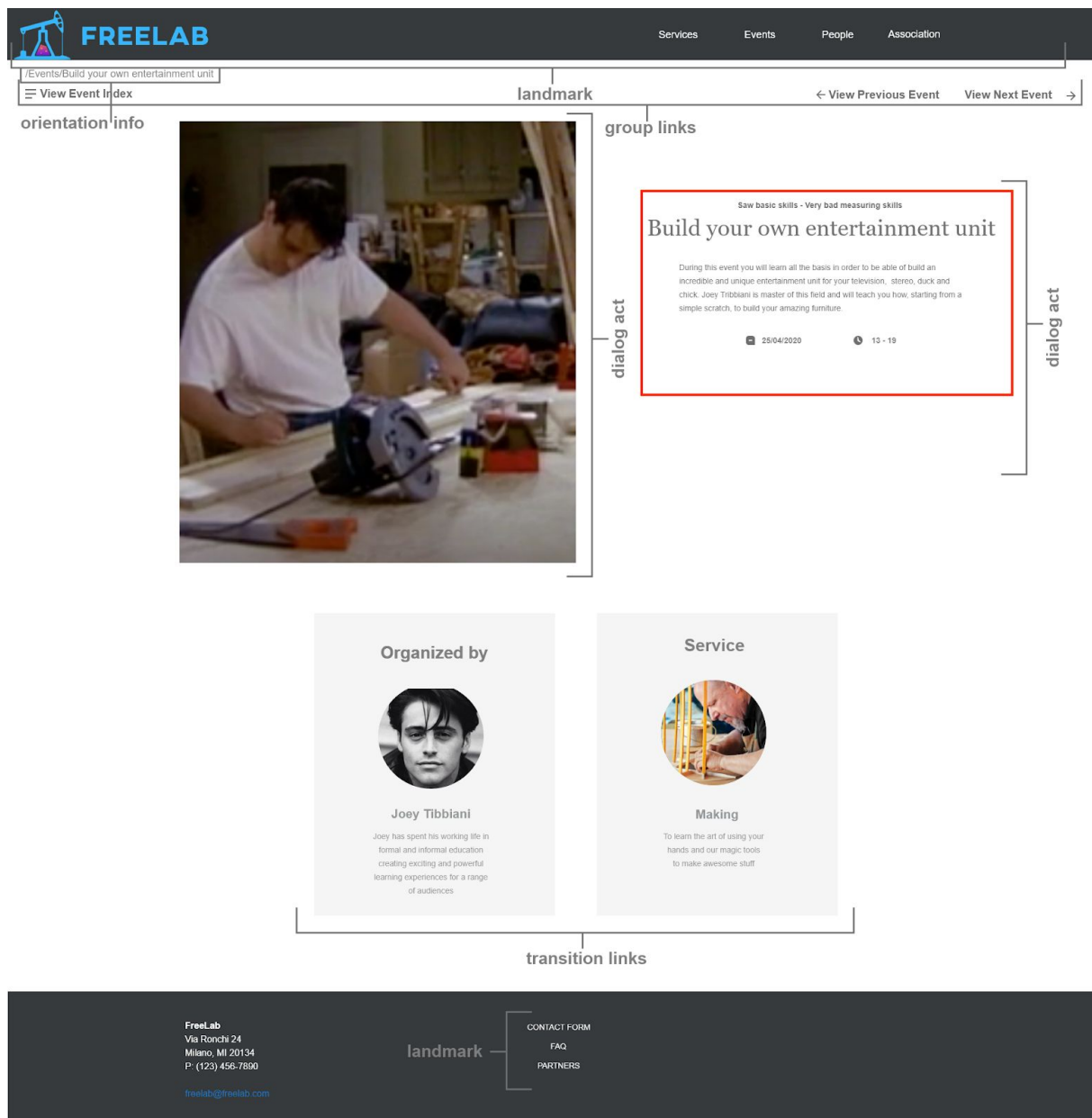

fig. 1

fig. 2

fig. 3

fig. 4

3.2 - Case 2 - Find if the association offers a certain type of service

Monica is a Design student interested in developing a web site for her portfolio but she's a novice with web developing. One of her friends suggested consulting the FreeLab web site to find out if the association offers some kind of service related to this activity.

Firstly, Monica opens the FreeLab webpage and locates the "Services" link in the navigation bar: this link takes her to the presentation page of all the services offered by the association. Here she finds that the last service proposed is Programming!

Interested, she clicks on Programming and finds out that FreeLab offers web development basics! (figures from 5 to 7)
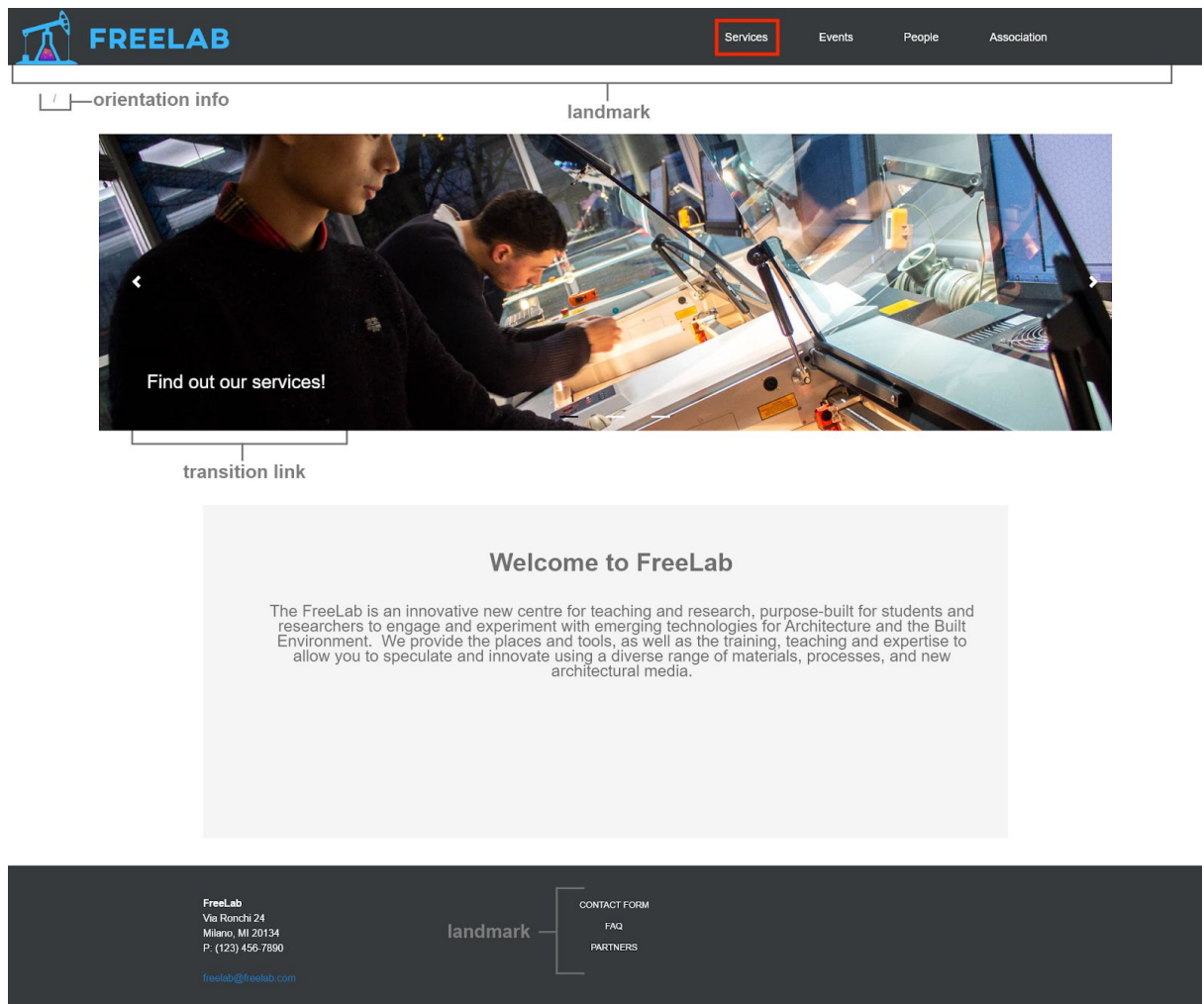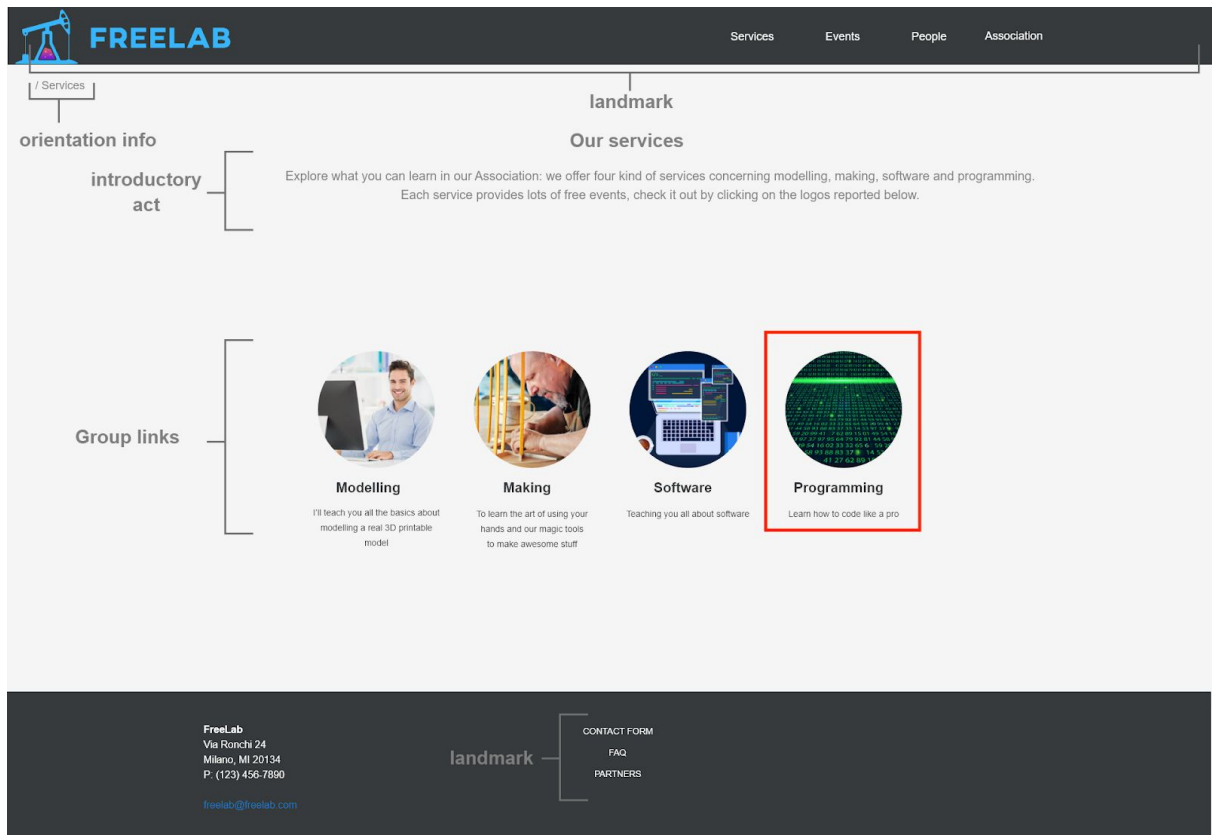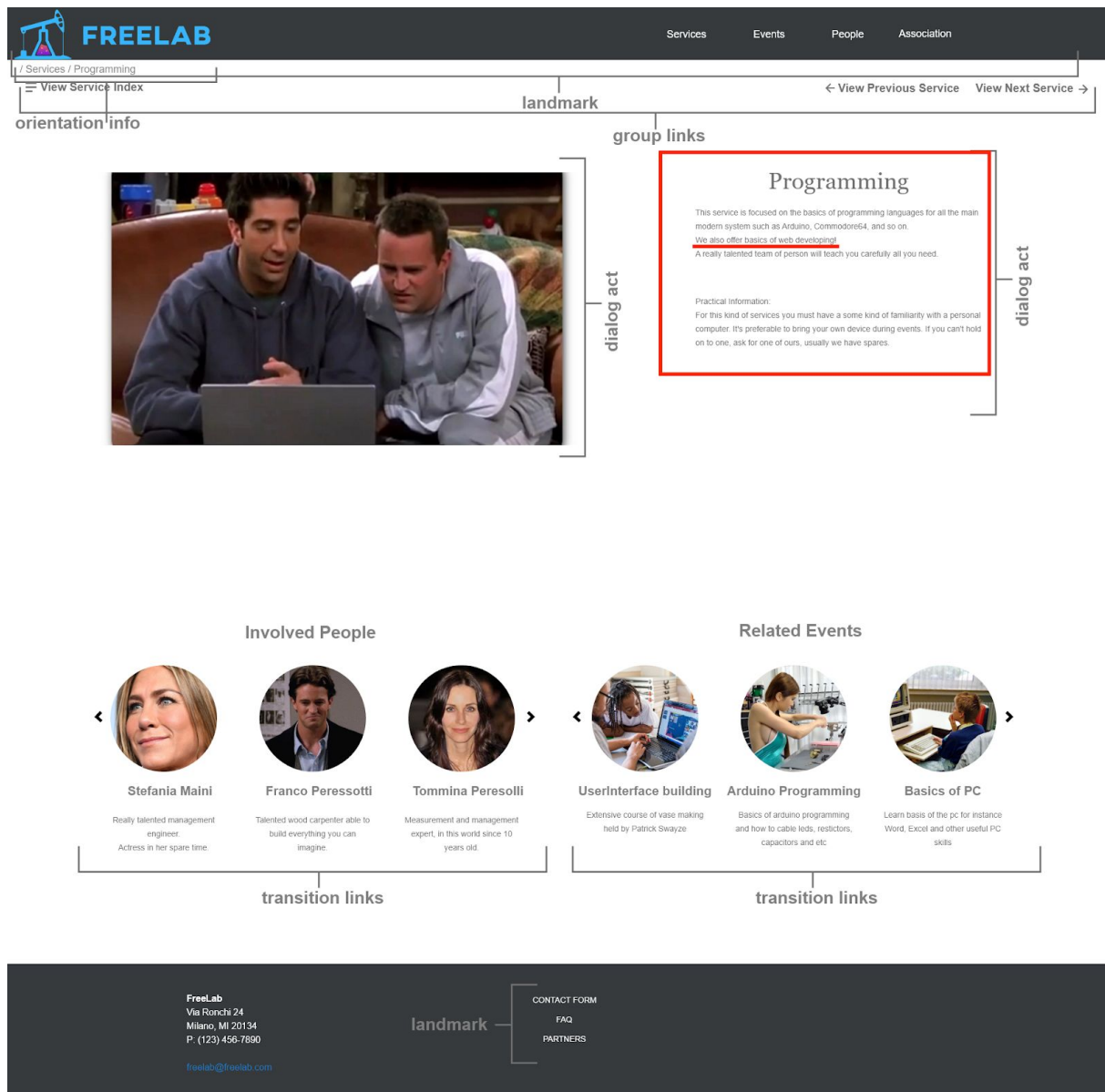

fig. 5

fig. 6

fig. 7

3.3 - Case 3 - Visit the FAQ section

Johnny Melano reading an article on the internet comes to know about FreeLab volunteering association, he wanders on how all these beautiful things can be achieved without any cost for the end users. He opens FreeLab's website on his browser and clicks on the FAQ link in the footer of the home page. He's greeted with a list of common questions about the association and he can now find the answers to his questions. (figures 8 and 9)
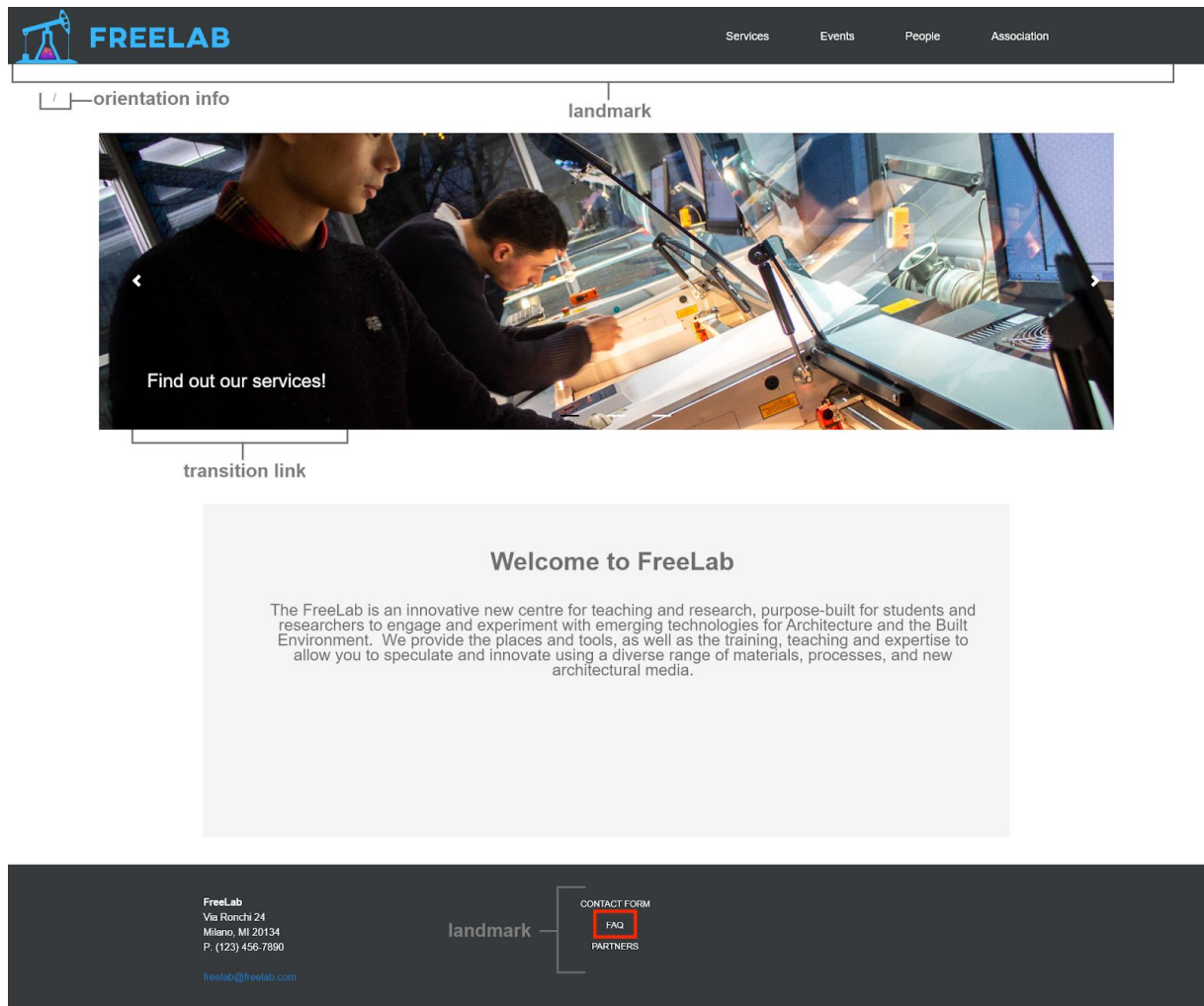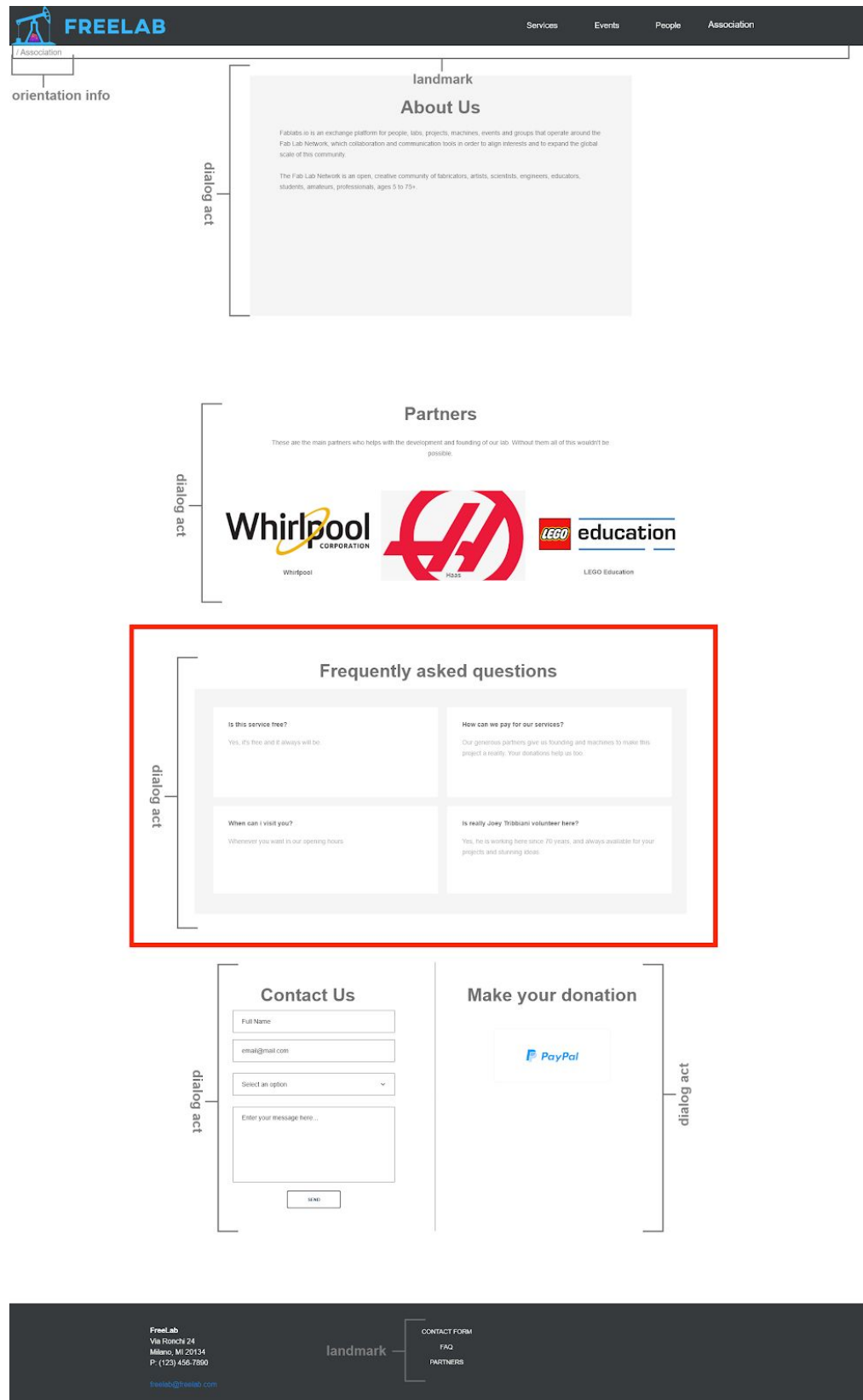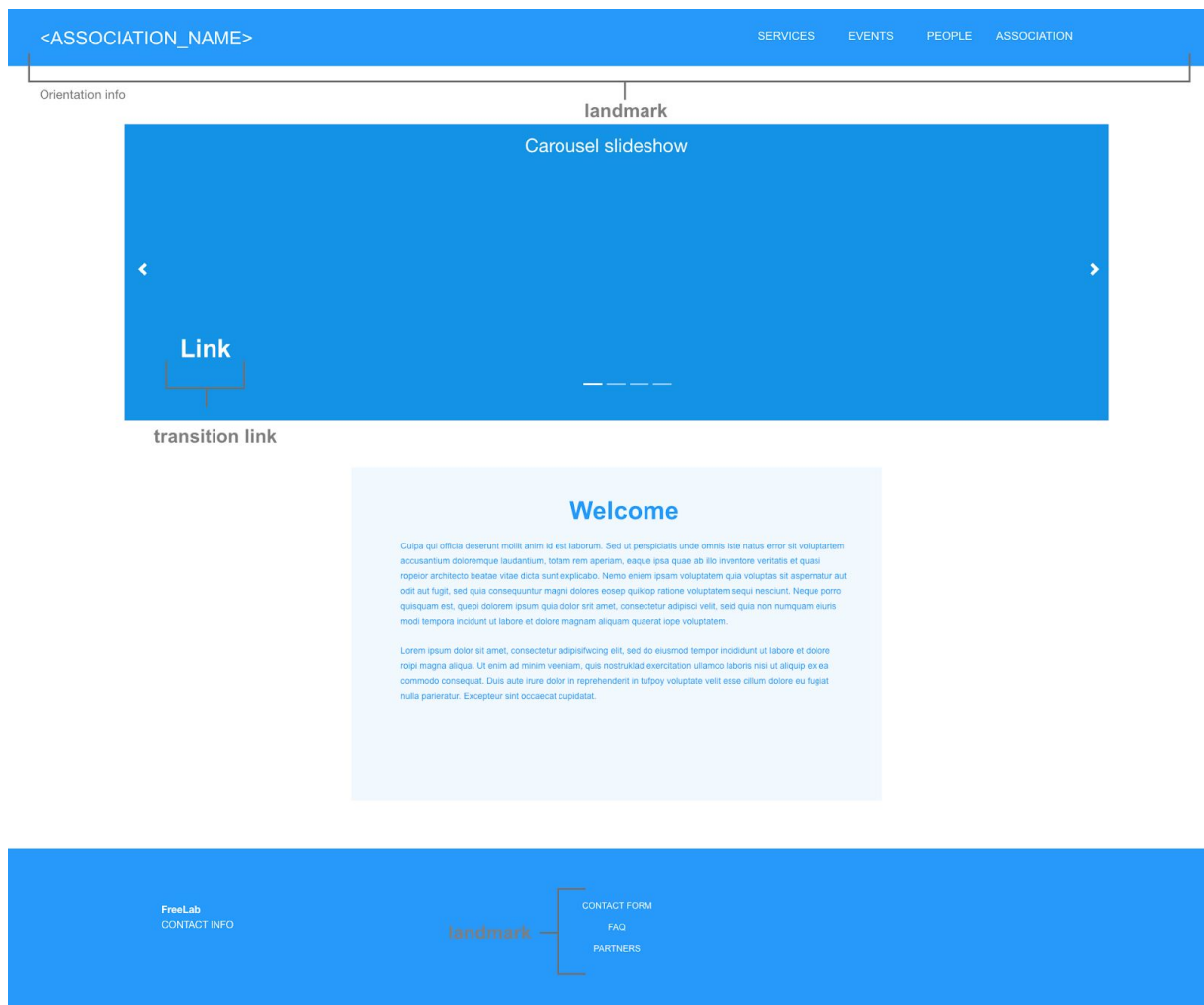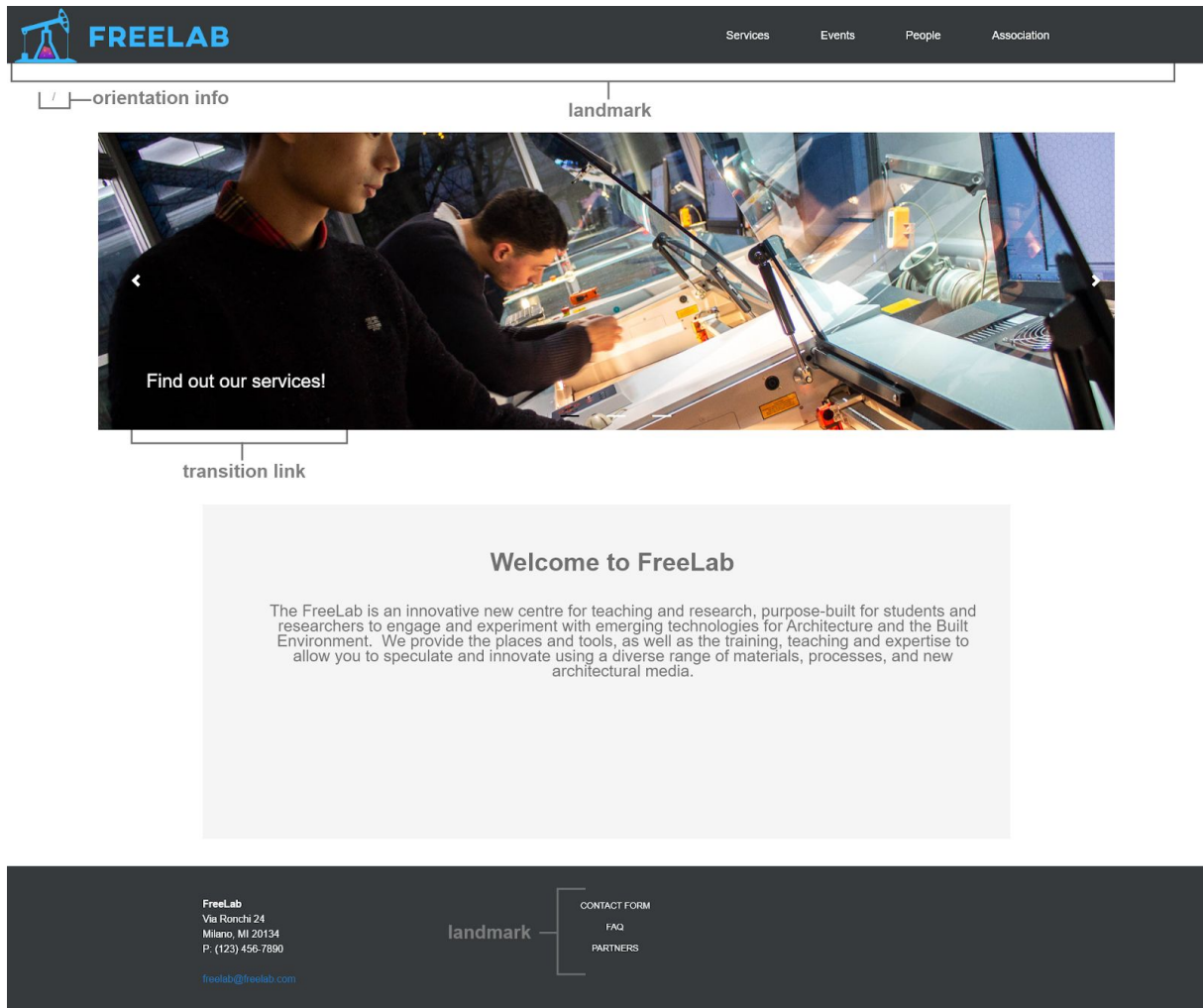

fig. 8

fig. 9

4 - Design-in-the-small

4.1 - Home Page

The home page of FreeLab's website is composed by a brief introduction to the Association itself that welcomes the users and a carousel slideshow that presents photos and links of the principal multiple topics of the website.
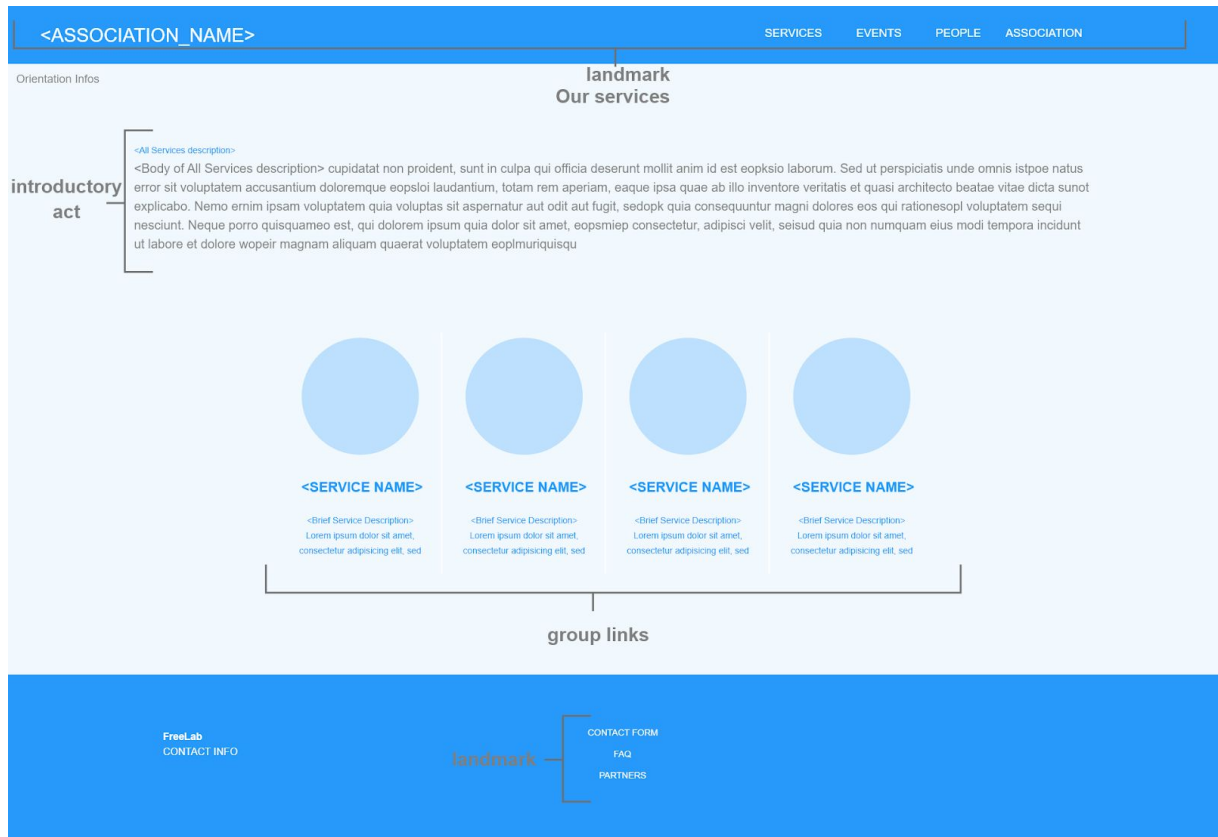
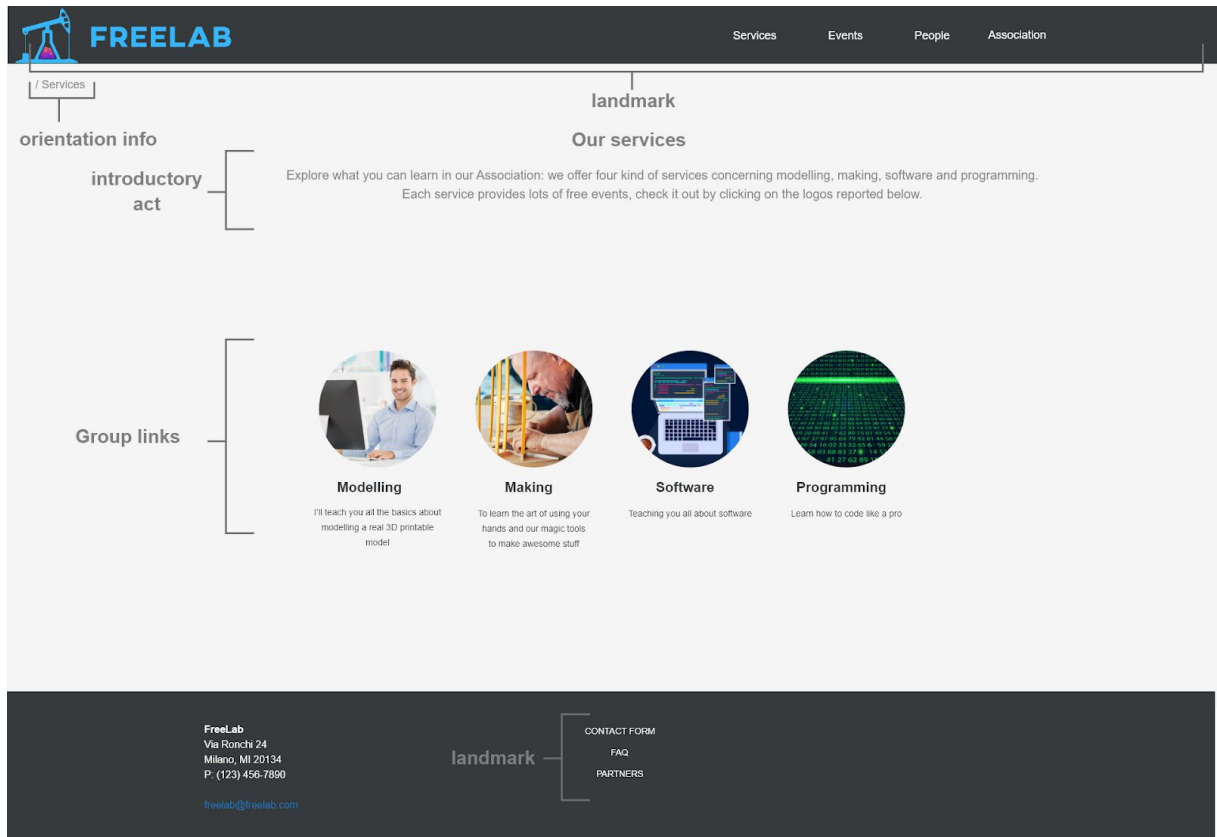### 4.1.1 - Home Page in-the-small

4.1.2 - Home Page screenshot

4.2 - All Services

This page presents all the available services of the association. On top a brief introductory description, underneath a list representing each service with a photo and a short description.

4.2.1 - All Services in-the-small

4.2.2 - All Services screenshot

4.3 - Service

The service page contains all the details about a specific service provided by the association.

It is divided in two halves, the first one containing a description, some practical infos and a carousel of photos.

Instead, in the second half there are all the involved people and the related events.
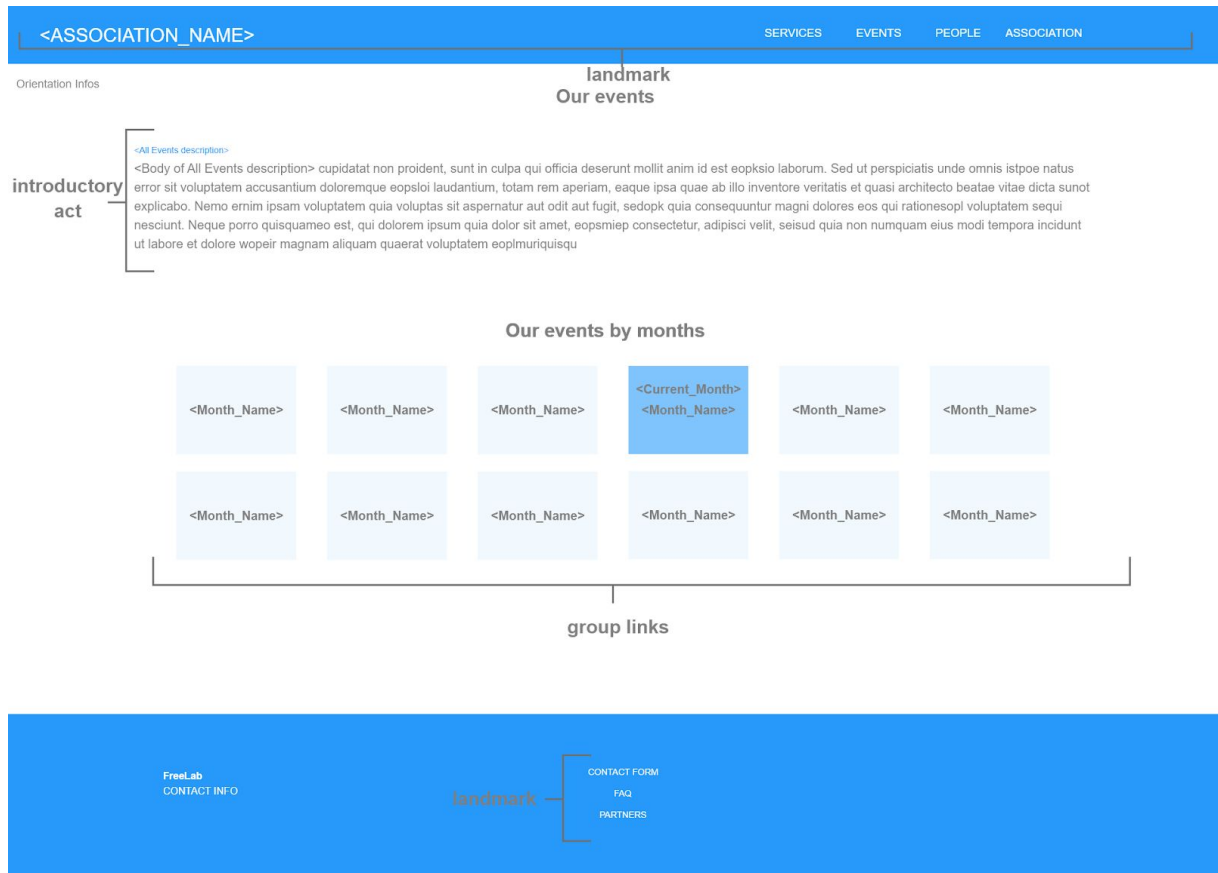
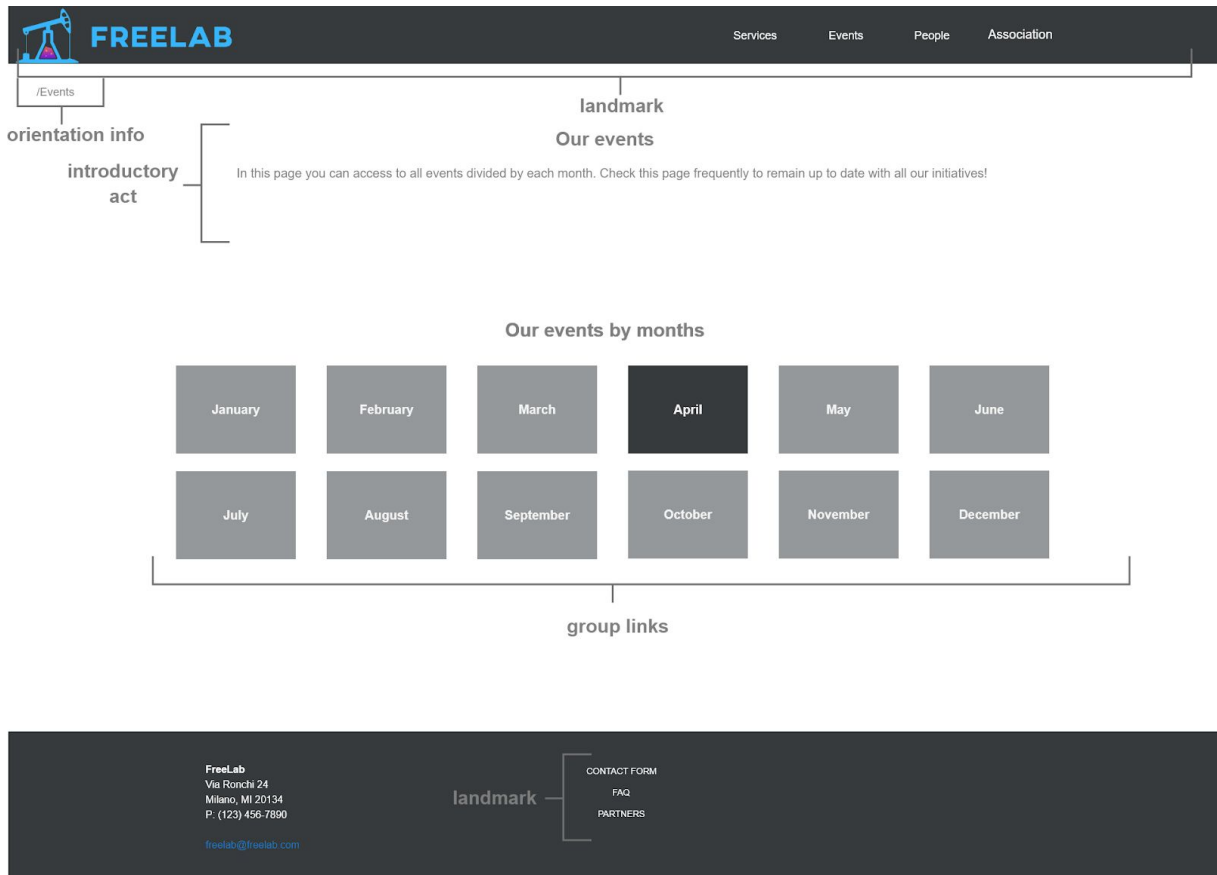## 4.3.1 - Service in-the-small

4.3.2 - Service screenshot

4.4 - All Events

In this page there is an introductory description. It also contains twelve cards, each one related to the corresponding month. They are links leading to the corresponding "Events for month X page".

4.4.1 - All Events in-the-small
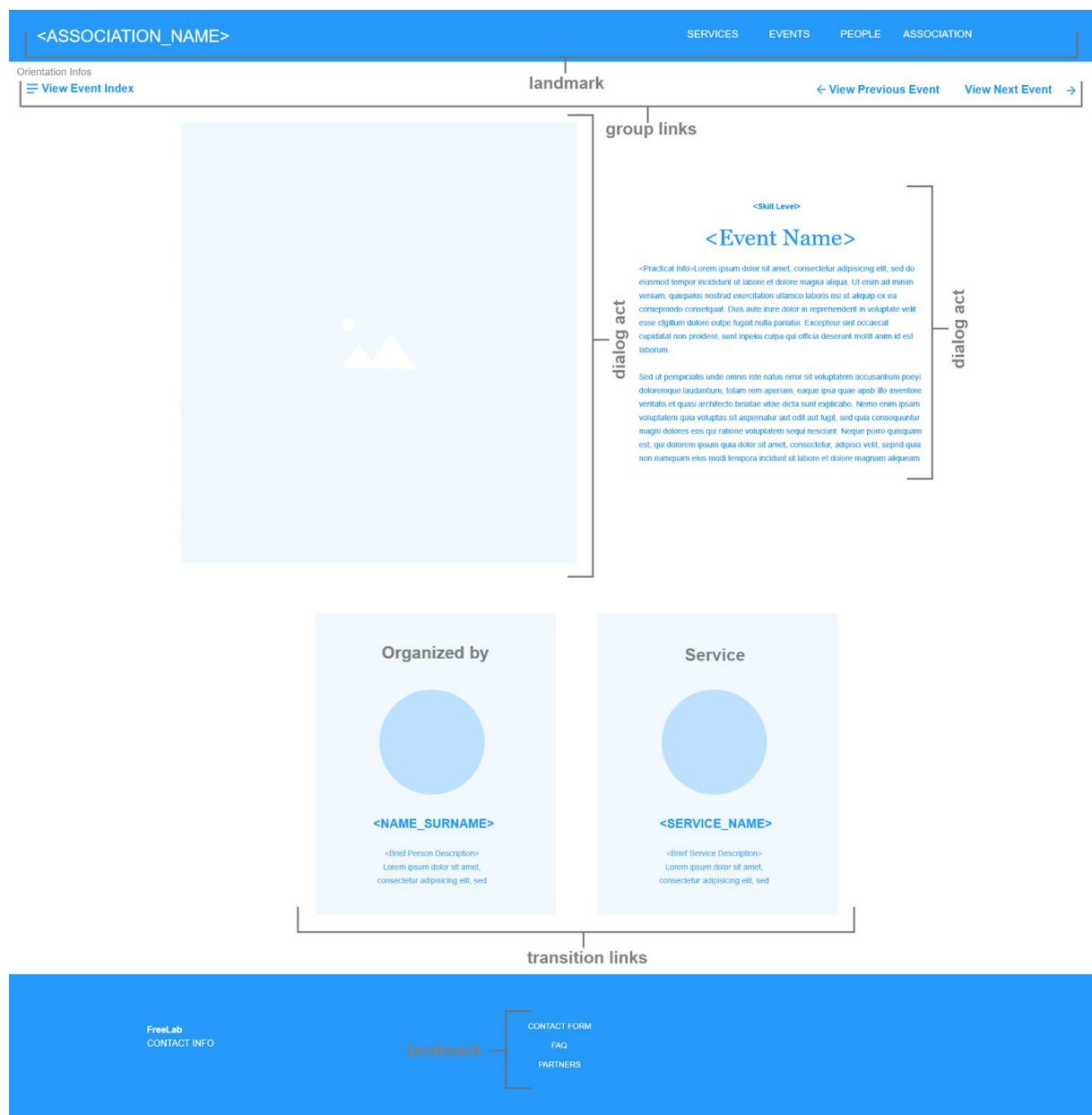
4.4.2 - All Events screenshot

4.5 - Event

The event page contains all the information concerning a specific event. In the first top half of the page a detailed description of the event next to a photo represents the event itself.
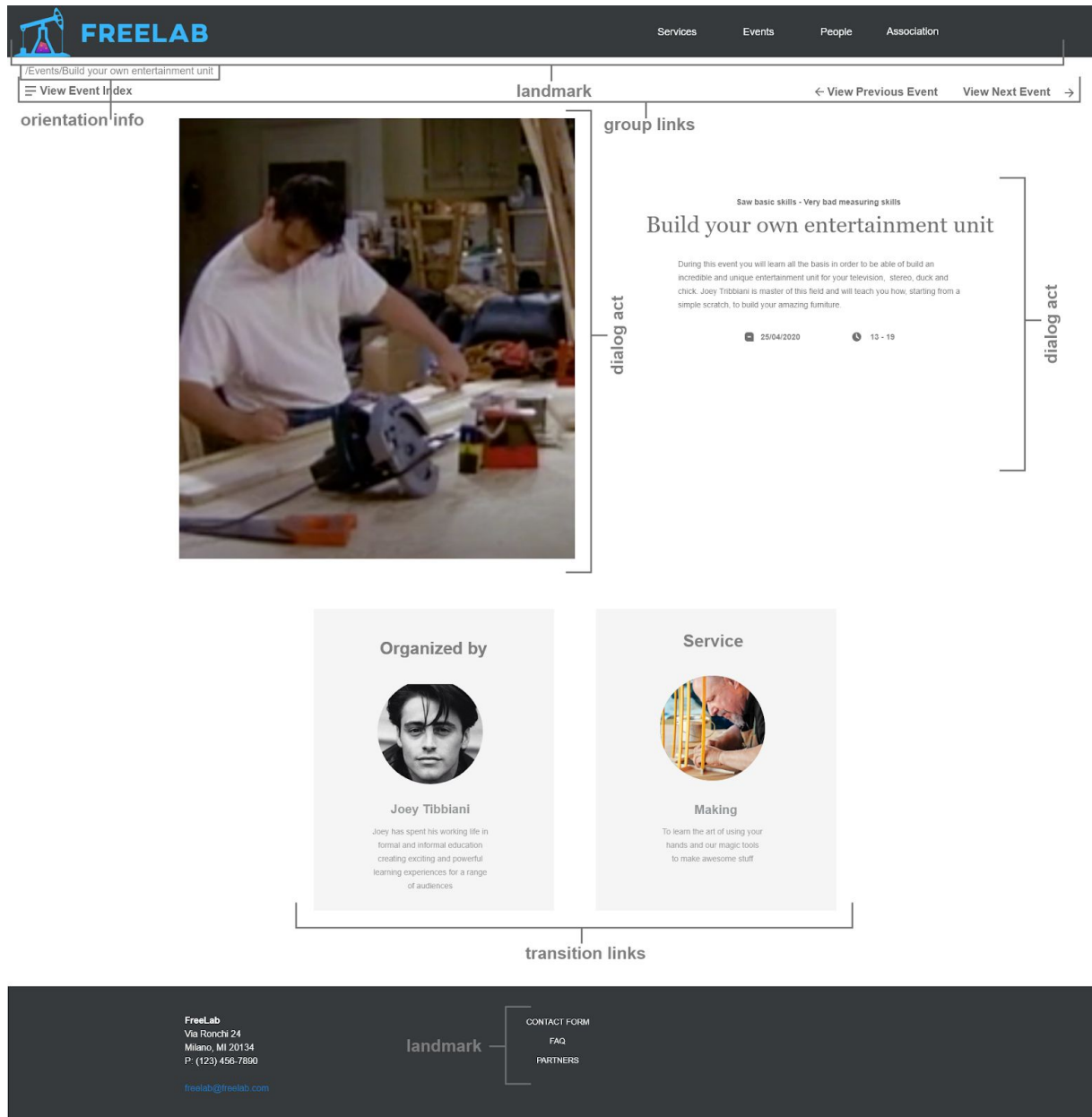
In the second half are reported:

-         information about the organizer with a photo, a link to the organizer's profile, name, surname and a short description;
-         information of the related service with a photo, a link to the service and a brief description.

4.5.1 - Event in-the-small
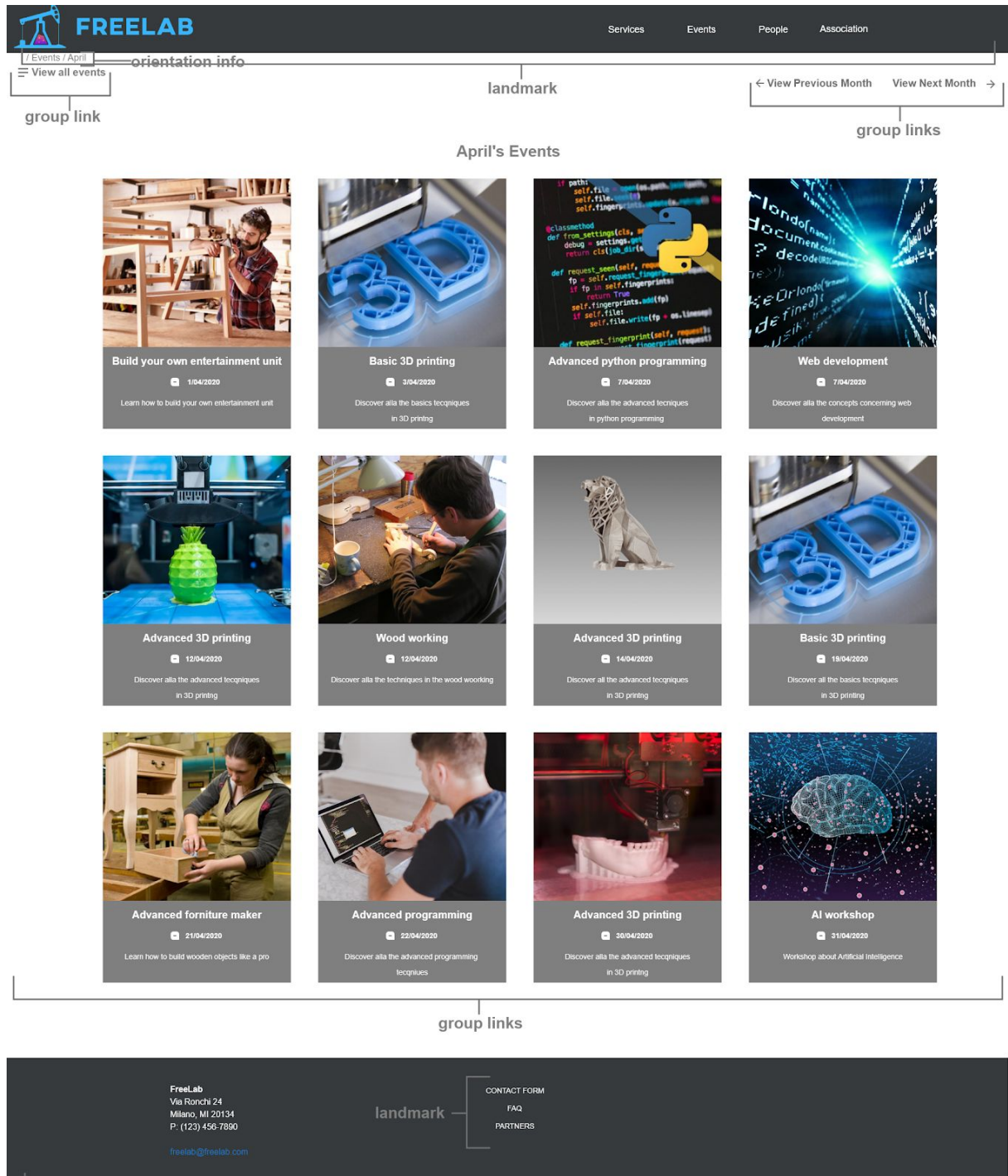
4.5.2 - Event screenshot

4.6 - Events by Month X

This page contains a grid representation of all the events available for the selected month: each event is described by its name, a brief description and the date in which it will be held.

4.6.1 - Events by Month X in-the-small

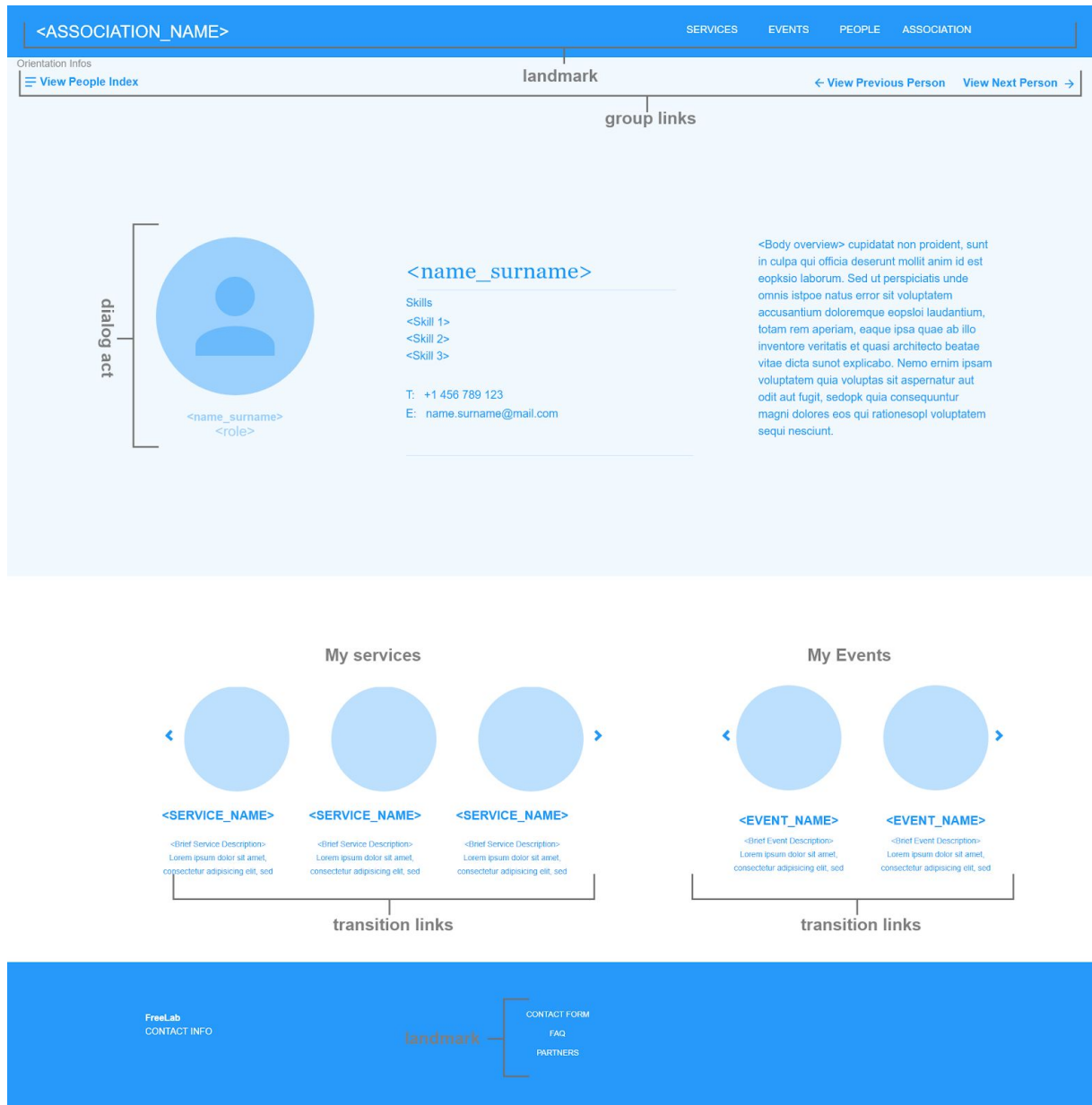## 4.6.2 - Events by Month X screenshot

4.7 - Person

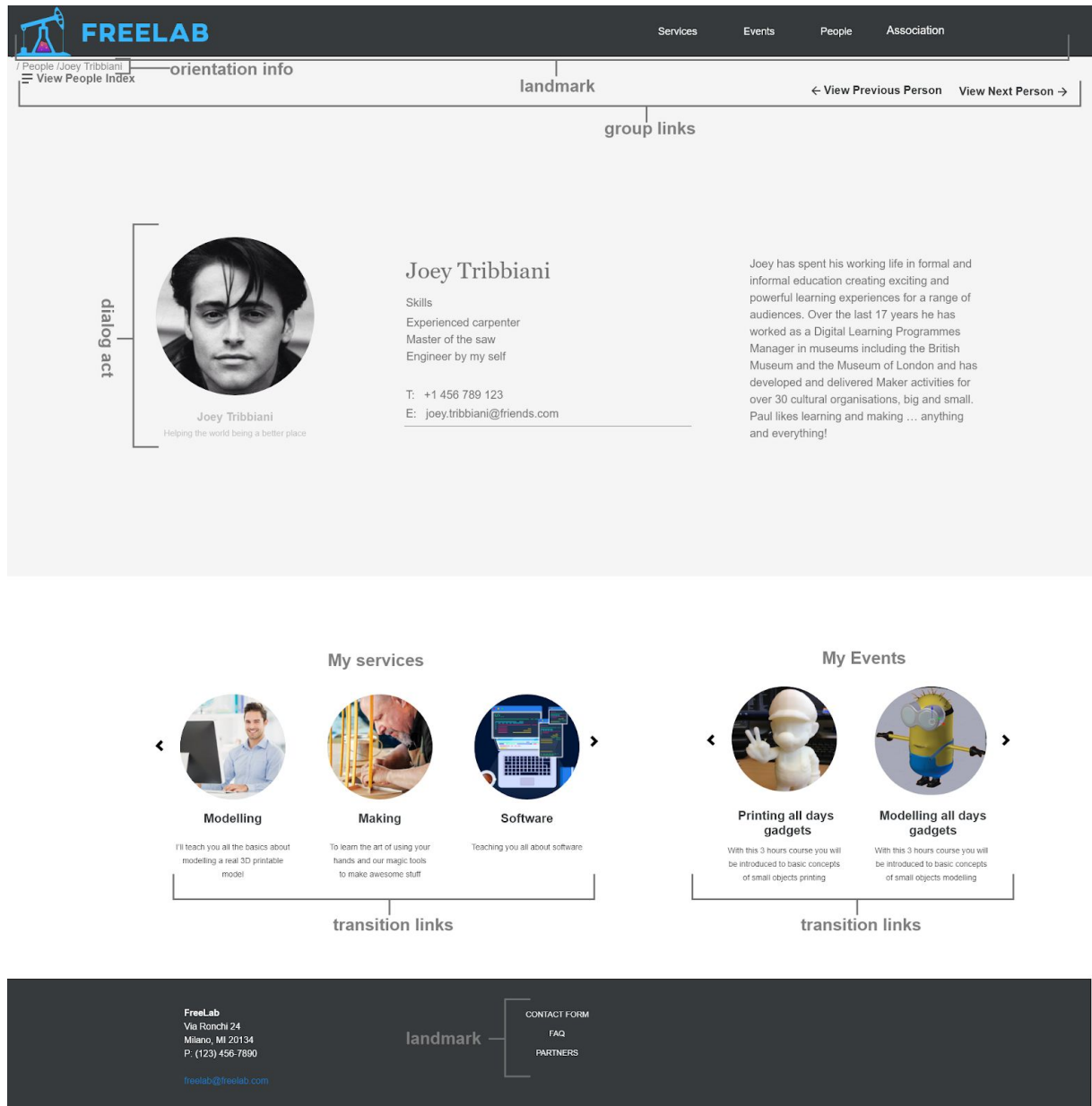The Person page is meant to show the staff's components.

It is divided in two halves, the first one contains the biographical information such as name, surname, skills, contacts, and an overview written by the person itself.

The second half contains events and services related to that specific staff component. They are all links to the corresponding content.
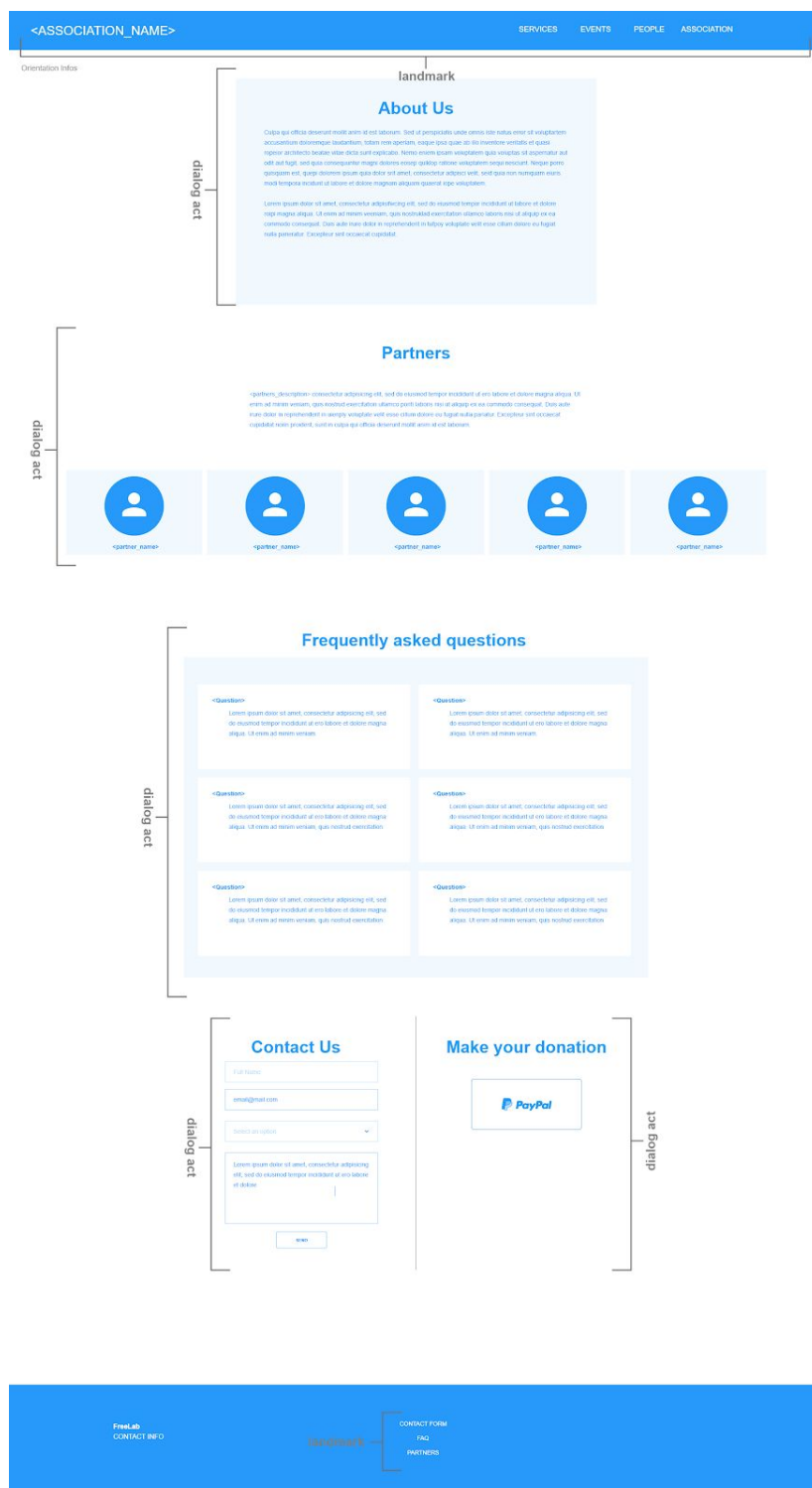
4.7.1 - Person in-the-small
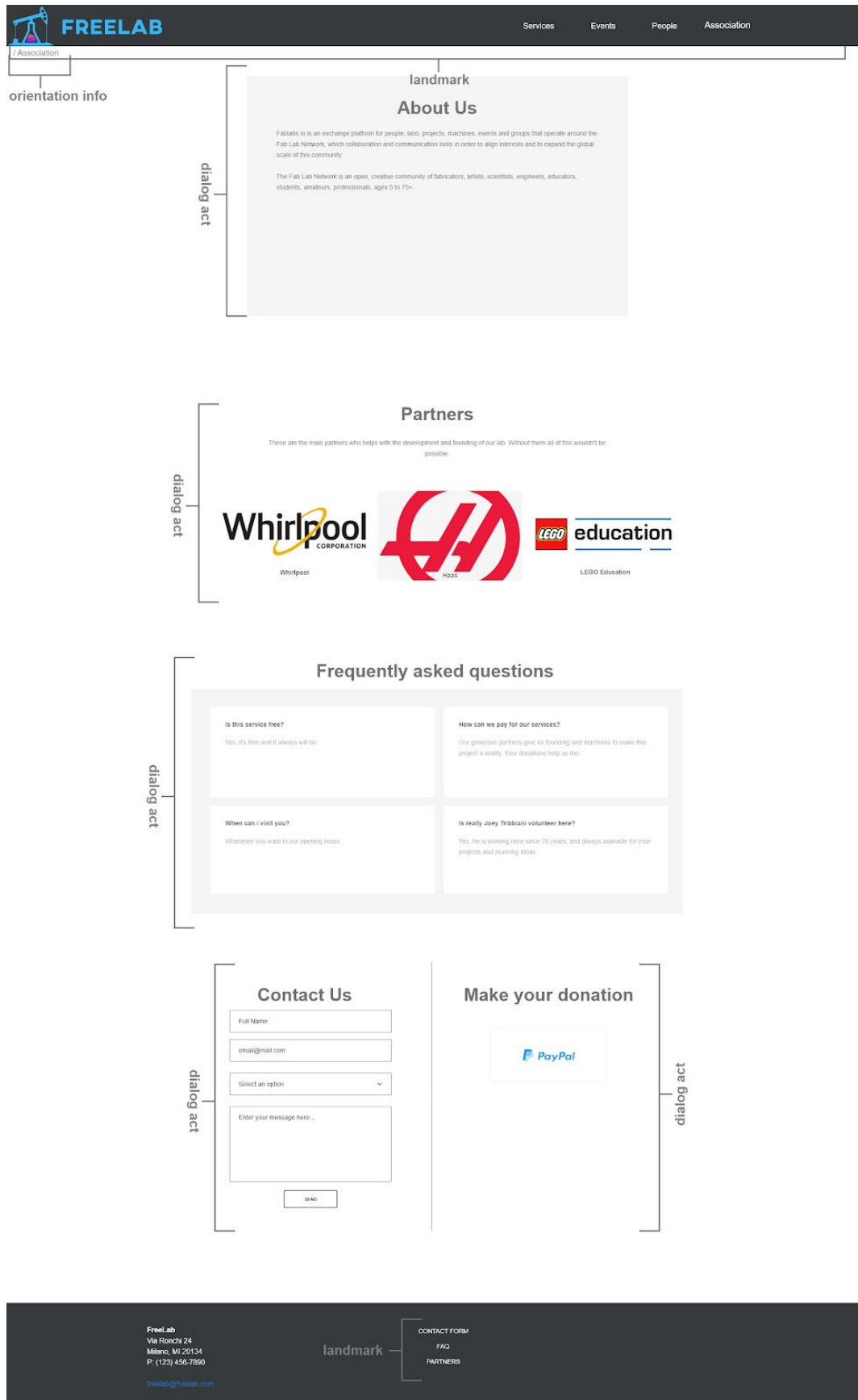
4.7.2 - Person screenshot

4.8 - Association

The association page groups all the information about FreeLab: here you can find a brief description of the Association, a FAQ section, a list of partners, a contact form to directly write to the staff and a link to FreeLab's PayPal account for private donations.
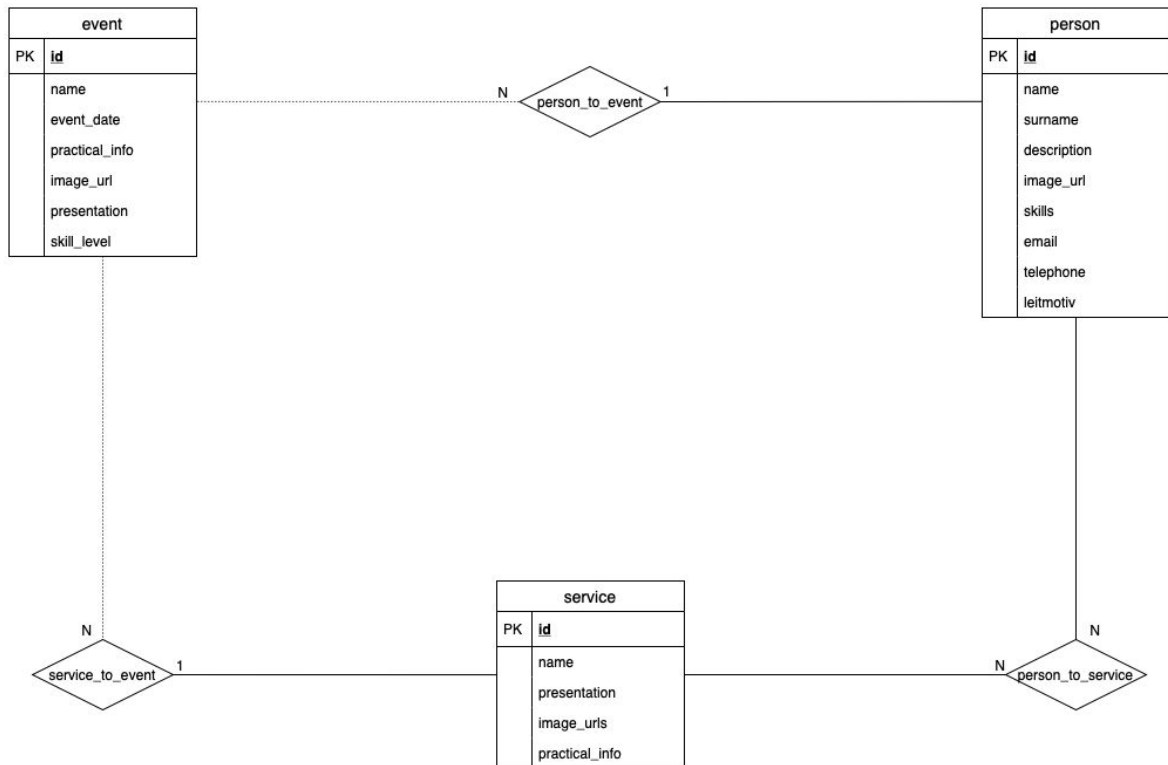
4.8.1 - Association in-the-small

4.8.2 - Association screenshot

5 - Database Design

Here you can find the visual representations of the database design that we used.

5.1 - ER Diagram

5.2 - Logical Design