POLITECNICO
DI MILANO

January 2020

Hypermedia & Web Application Project

DESIGN DOCUMENT

Silvia Ferraris
Matricola 854767
Codice Persona 10528353

INDEX

1 Abstract…….3

2 IDM Schemas……4

2.1 C-IDM schema……..……...…….…4

2.1.1 C-IDM notes…….4

2.2 L-IDM schema…..……5

2.2.1 L-IDM notes…….……5

2.3 Dashboard admin…..…….6

3 Scenarios……7

3.1 First Scenario…….7

3.2 Second Scenario…….....7

4 Design in the small……..8

4.1 Homepage……..……..8

4.2 Events page……...10

4.3 Single event page……..11

4.4 Performers page……12

4.5 Single performer page ……..13

4.6 Seminar page……14

4.7 Contact me page ……..15

4.8 FAQ page……..16

4.9 Reach us page……...17

4.10 Login page……18

4.10.1 Logged detail……..19

4.11 Sign Up page……20

4.12 Shopping cart page……...21

4.12.1 Order confirmed page…….21

4.13 404 Page……22

4.14 Dashboard…….23

4.14.1 Dashboard details……23

4.14.2 Dashboard- add event form……24

4.14.3 Dashboard- add performer form…….25

4.14.4 Dashboard- add seminar form……26

5 Database Design……27

5.1 ER-diagrams……..27

5.2 DB entity dependencies……27

5.3 Database entities……28

1. ABSTRACT

This document contains the design specifications of Hypermedia and Web applications course's project for the academic year 2018/2019. The project consists in designing and implementing a website for a Festival website.

The first chapter includes the IDM design models (C-IDM and L-IDM) enriched with textual descriptions.

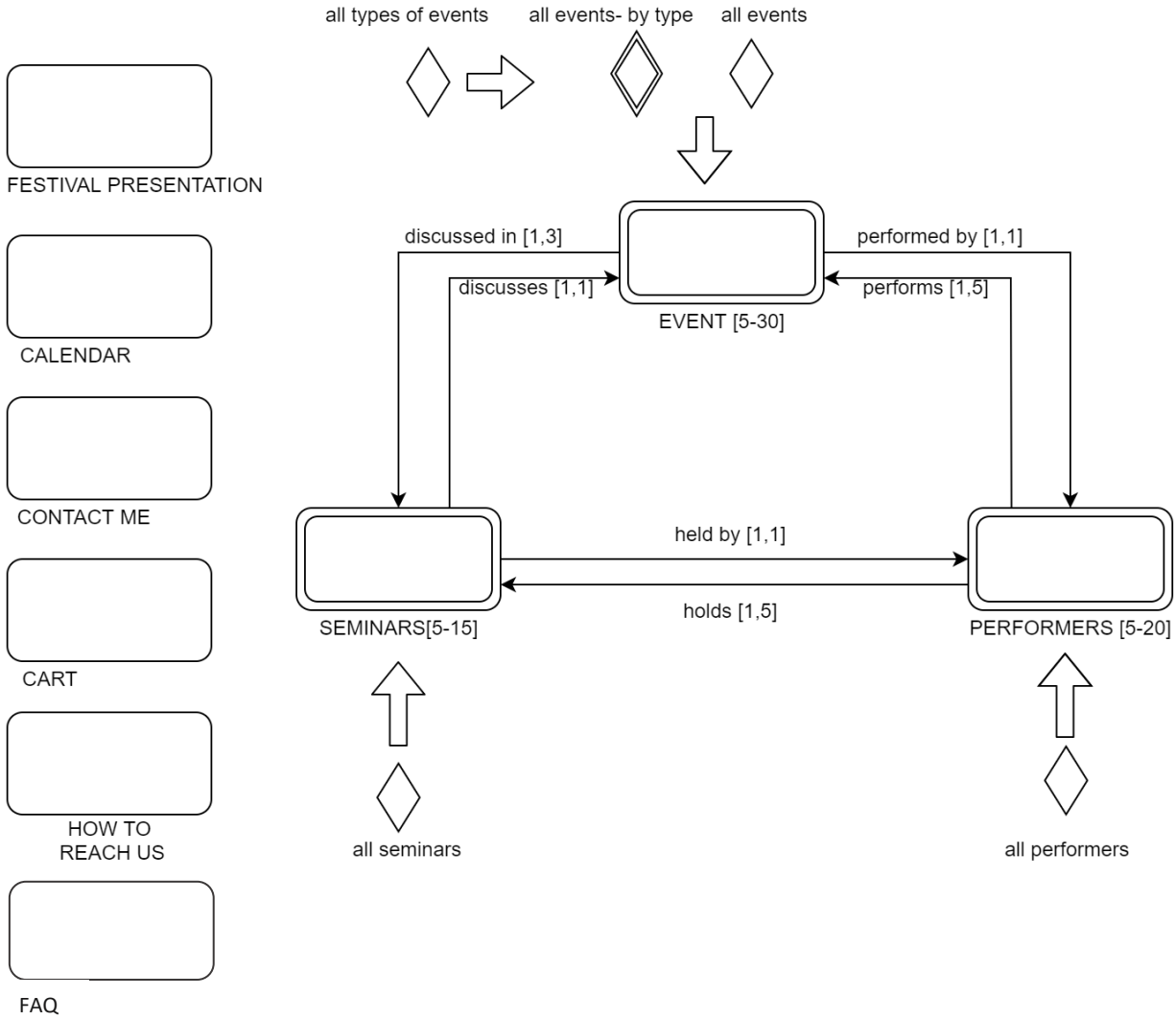
The second chapter contains 3 scenarios used to describe different type of usage of the website.

The third chapter contains the Design-in-the-small for the pages of the website and the last one describes the ER-diagram used to create the database.

2. IDM SCHEMAS

In this chapter there are the C-IDM and L-IDM schemas

2.1 C-IDM SCHEMA

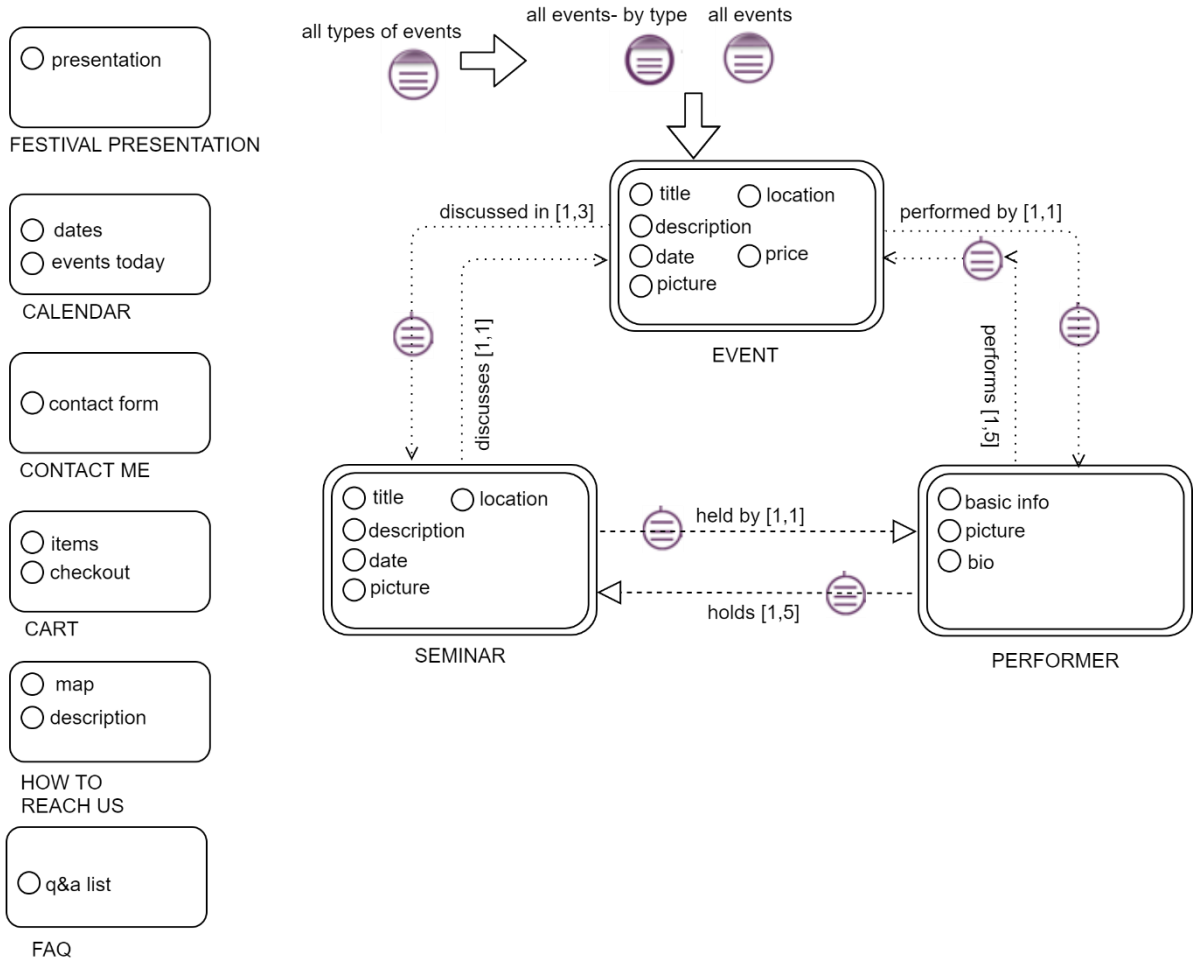


2.1.2 C-IDM SCHEMA NOTES

This is a brief overview of the website structure, with the main relationships represented by arrows. These arrows are the “transitional links” form a page to another.

I decided to add two single topics: a “countdown” that tells users which is the next available event, and the “reach us” topic, which can be useful for those users that want some information about the town and how to reach it.

2.2 L-IDM SCHEMA



2.2.1 L-IDM SCHEMA NOTES

This overview of the website shows the detailed elements of each page.

Main topics:

EVENT: the “Title” act is the title of the event. “Description” is the act that describes what that event consists of and the program of the day, if present. Other acts are the Location, the Date, the picture slider that shows some pictures about the event and the correlated price, with its button who allows the user to buy the ticket for that event.

PERFORMER: The “basic info” act consists of the first name and the last name of the performer. The dialog “bio” describe the history and the life of each performer. The picture is composed by a slider that shows some pictures about the performer.

SEMINAR: A seminar is correlated to an event and has an own Title. The performer is the same of the event. It also has a location, that can be different from the event's location, a date and some pictures.

Other topics:

FESTIVAL PRESENTATION: it's quite simple, it describes the aim of the festival and invites people to enjoy it. It also includes a "Count Down" which counts and show the next available event.

CALENDAR: It's just a simple calendar that shows, for every day of every month, if there is an event in program.

CONTACT ME: The "contact form" is a dialog act that can help the user to contact the page owner for any doubt or suggestion.

FAQ: It includes a list of common question with relative answers (Q&A list)

HOW TO REACH US: This was not requested, but I think it's important. Users must know how to reach any location. The town that hosts the events is a little town, but people must know something about it. It includes a map from Google Maps, a description about the town and the kms from the most important close places.

CART: It includes a list that can be empty if there are no items added in. It also has a section called "checkout", that allows the user to buy the tickets he inserted into his cart (available after the registration). Cart records and maintains the inserted items even after the registration or the login. It records also all the items of a specific user.

2.3 DASHBOARD- admin

I implemented a dashboard to make easier the process of insert an event/performer/seminar into the database. An admin has a the privilege to modify, delete or insert this topics in the DB and his session is private and not accessible to others.

3 SCENARIOS

3.1 An happy family on vacation

A family from Milan wants to visit Varazze. They're interested in helping people who lost their houses and affects because of weather issues. They go on the Varazzers Festival page and start looking for some events. So they click on "events" and look for something to do with their children. They discover the event called "Little Chef's Lab" and they click on "buy".

Then the father, Luca, goes on the cart icon and he add other 4 tickets using the specific button. Then he discovers he has to login in order to buy the tickets. Clicking on "login" and then to "sign-up", he can finally buy the ticket.

3.2 A musician interested into a seminar

Francesco is a guitarist who wants to improve his skills with music production. His friend Lorenzo talks him about "Varazzers Festival". He knows that there are a lot of events, and some of them have an associated seminar. Francesco doesn't know how to reach Varazze, but Lorenzo tells him that he can find any information on the website.

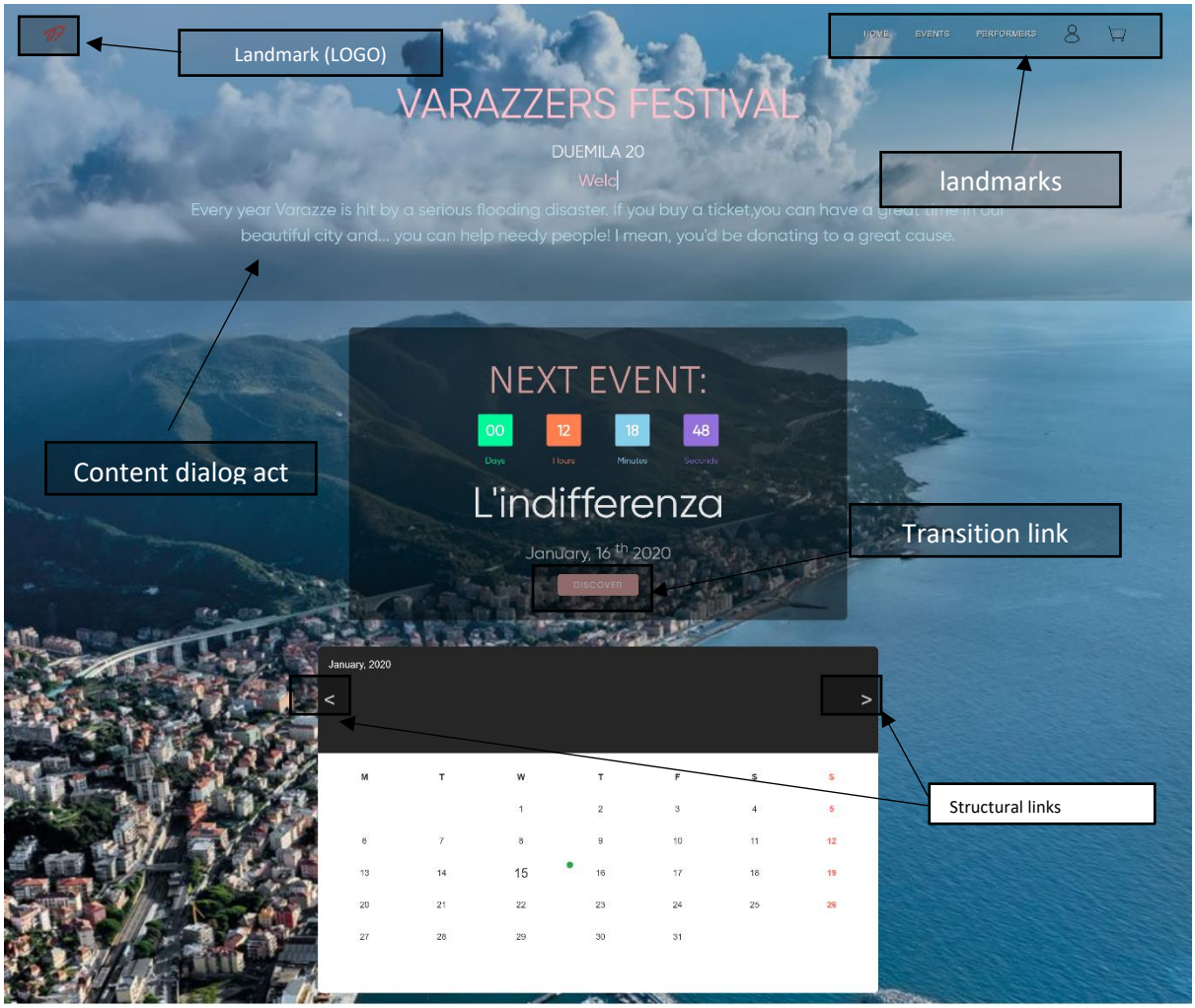
So, Francesco decides to visit the website of the festival, and he looks for seminars, but he doesn't find them. Then he looks for "Faq page" and he discovers that he has to register an account in order to contact the event organizers.

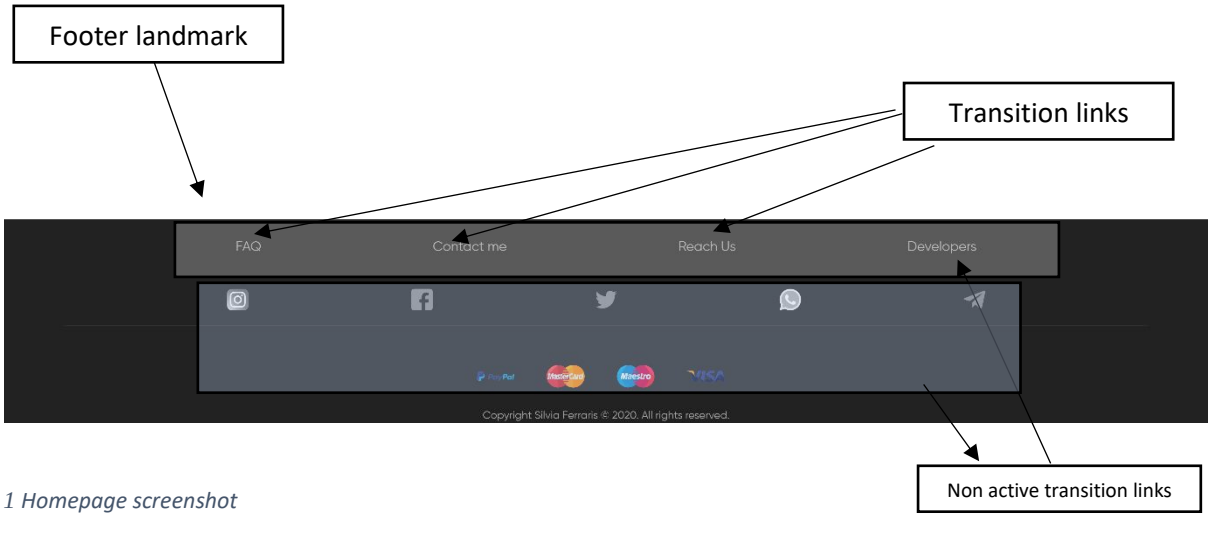
4 DESIGN IN THE SMALL

The design in the small consists in displaying the screenshots and wireframes of all the pages of the website. It shows the design, the links, the header and the footer. It explains with pictures what a user can do and how he can move through the website, jumping from a page to other. All the pages has a navbar and a footer (LANDMARKS), that remain the same all over the pages.

4.1 Homepage

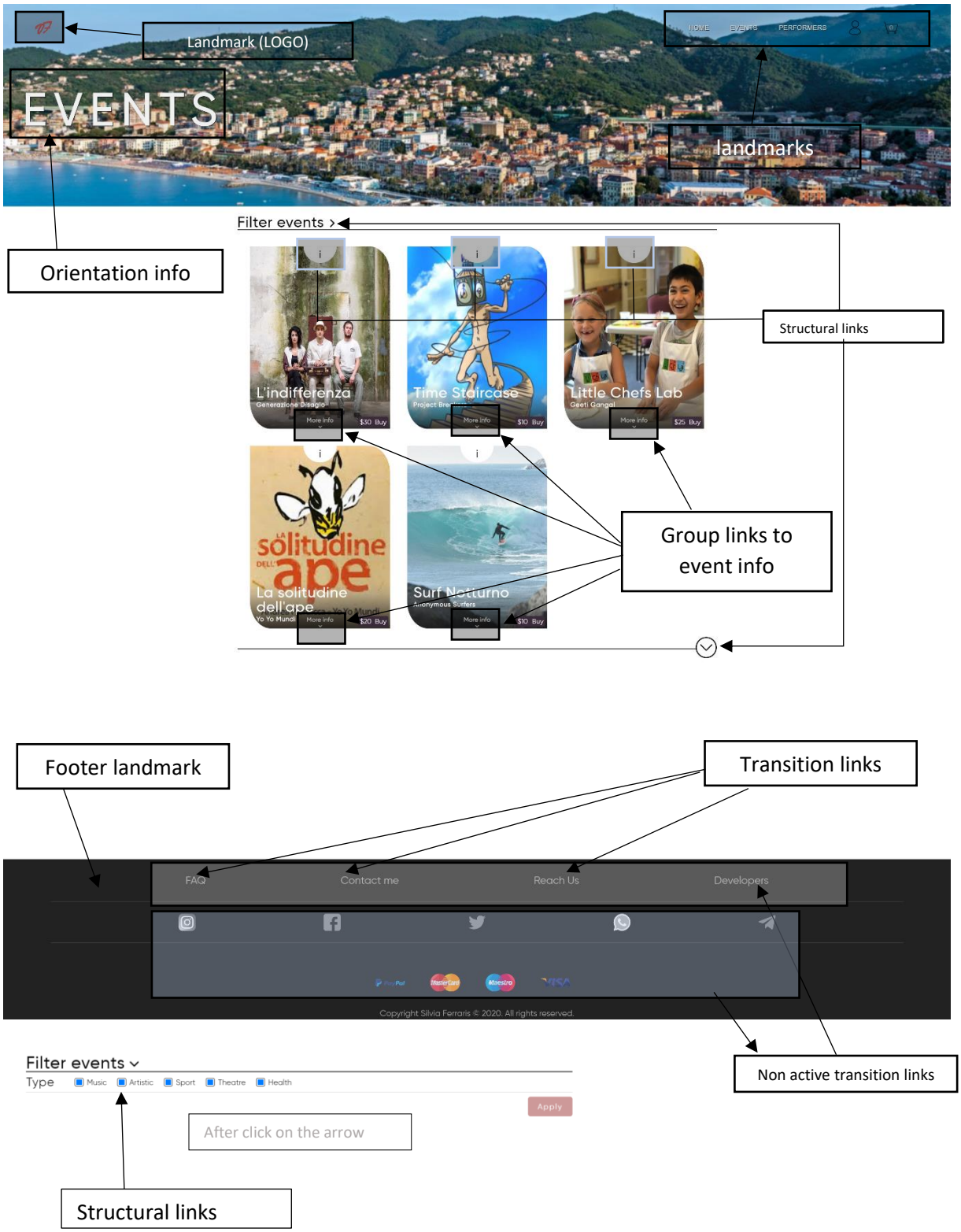
In the homepage there is a section which describes the aim of the Festival, and a “scrolling” text that appears and disappears, in which there are the words “welcome”, “buy some tickets now”. At the center of the page, there is the “next event” section with the associated countdown. Then, there is the calendar.





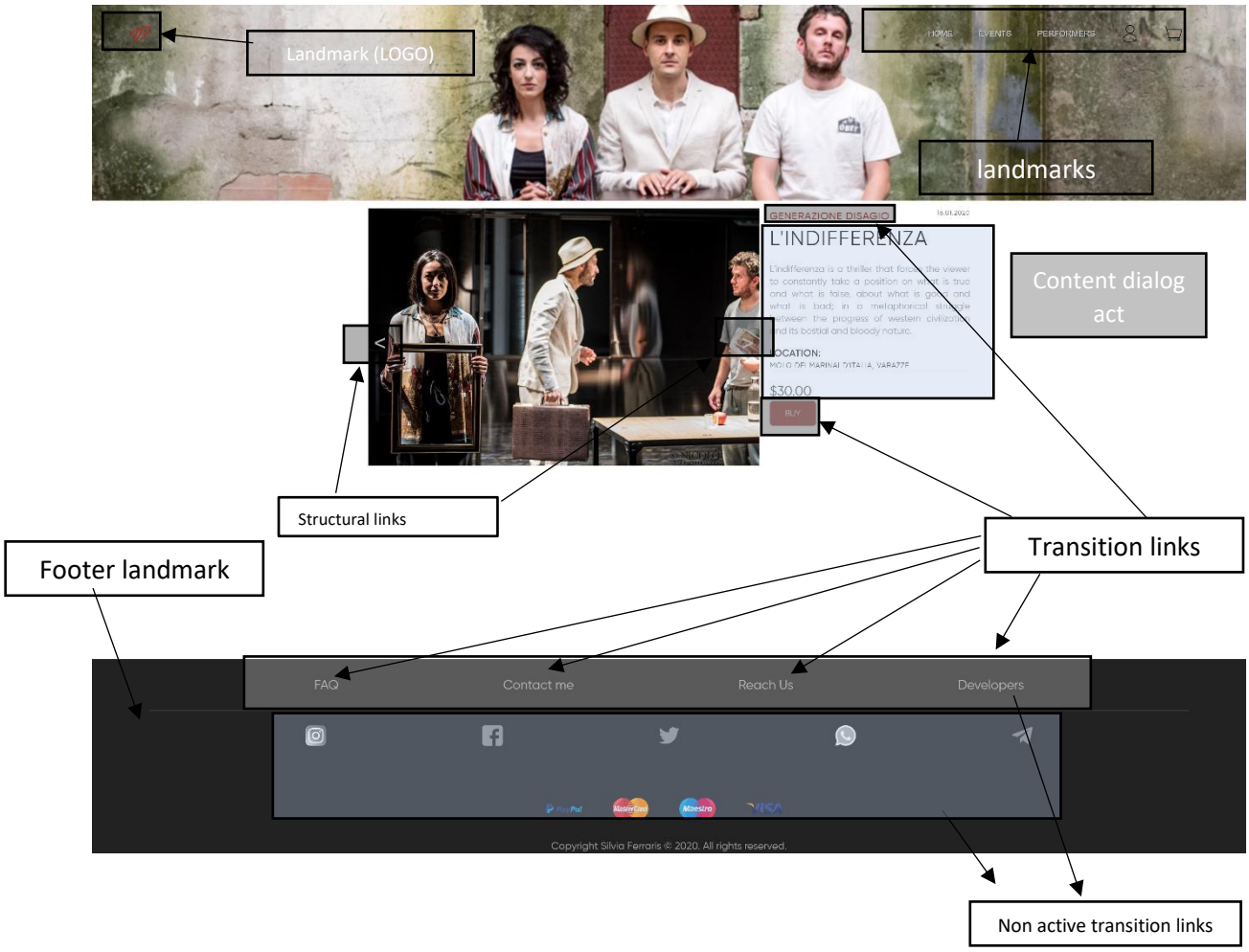
1 Homepage screenshot

4.2 Events Page



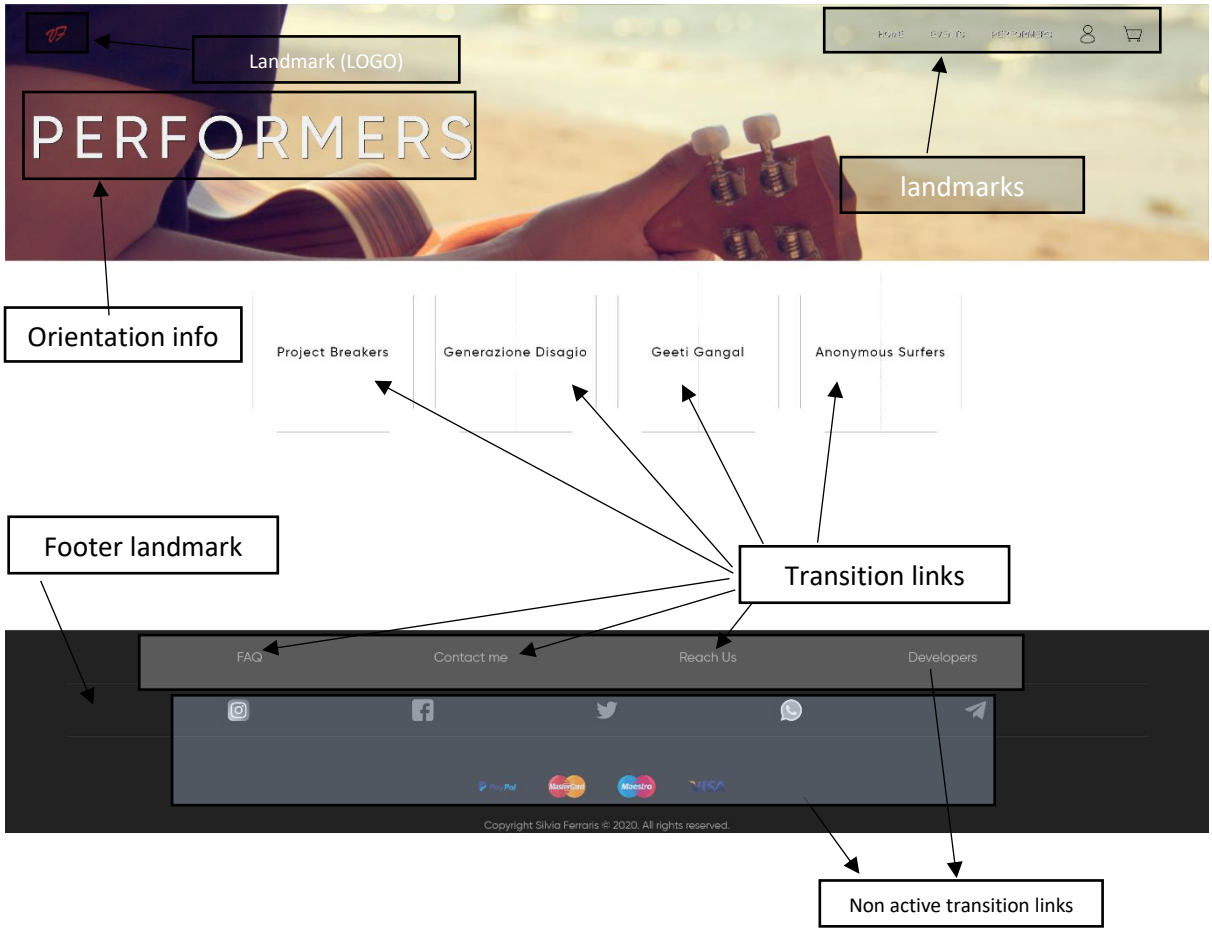
2 Events page screenshot

4.3 Single event page



3 Single event page screenshot

4.4 Performers page

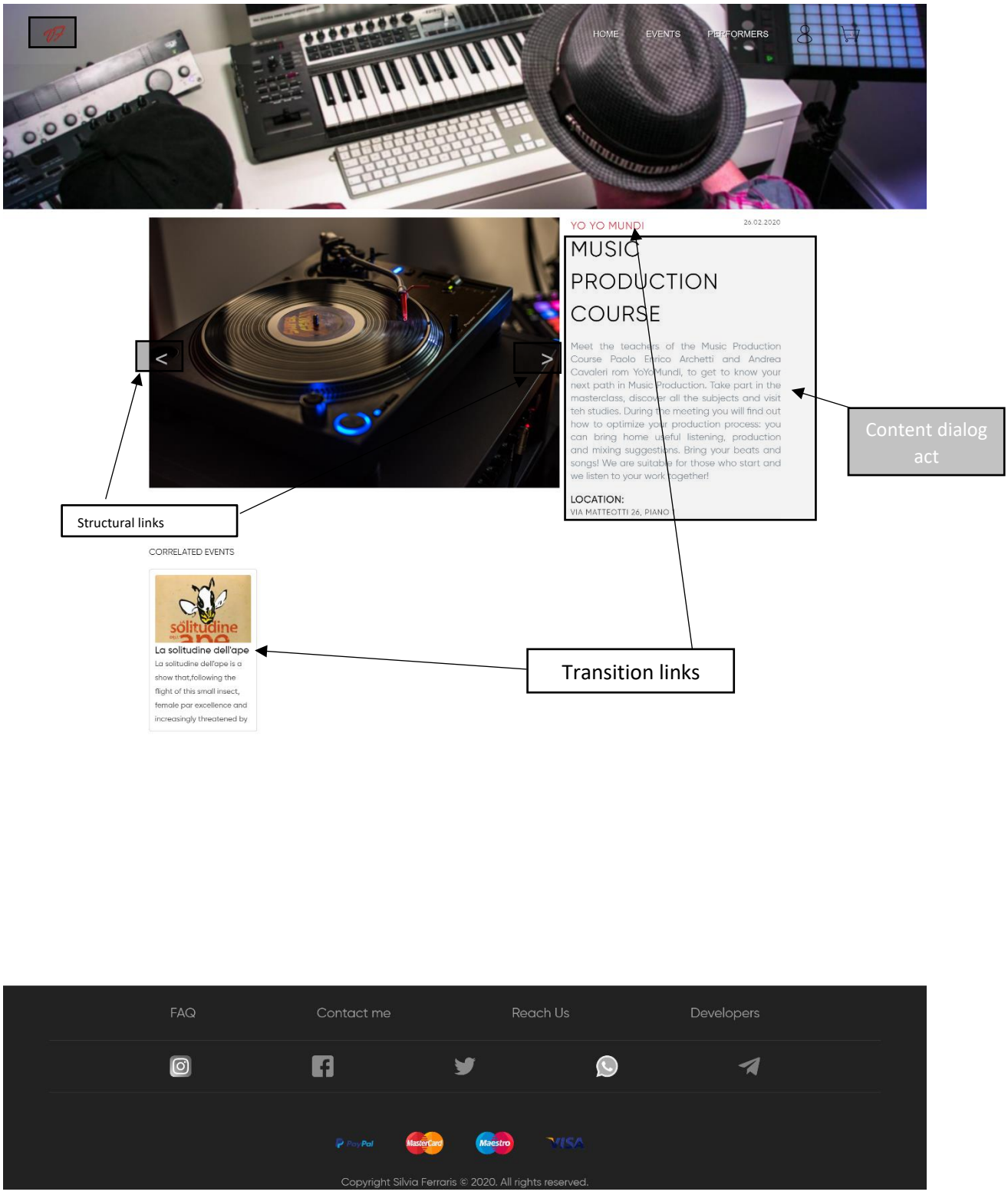


4 Performers page screenshot

4.5 Single performer page

5 Single performer page screenshot

4.6 Seminar page

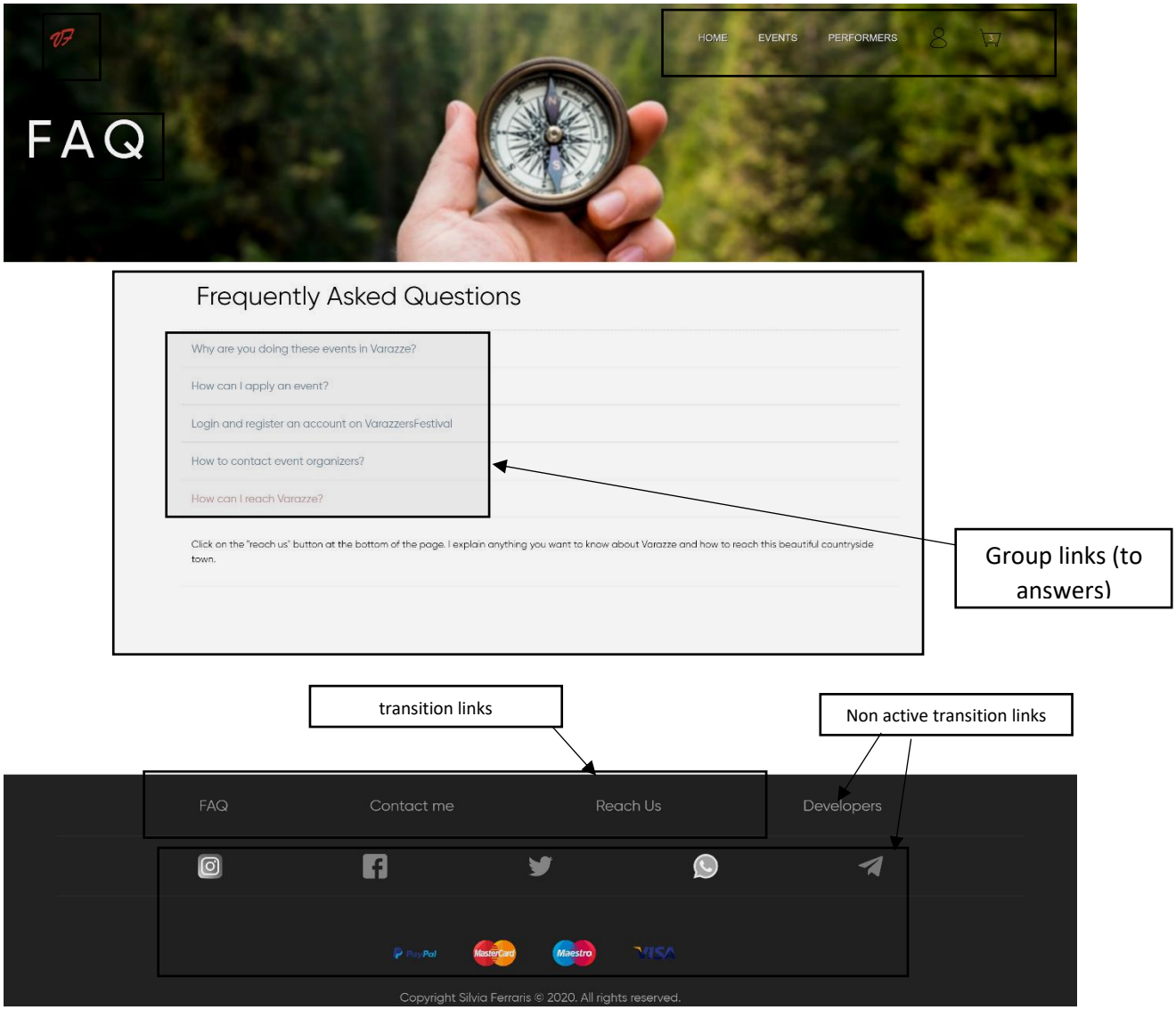


6 Seminar page screenshot

4.7 Contact me page

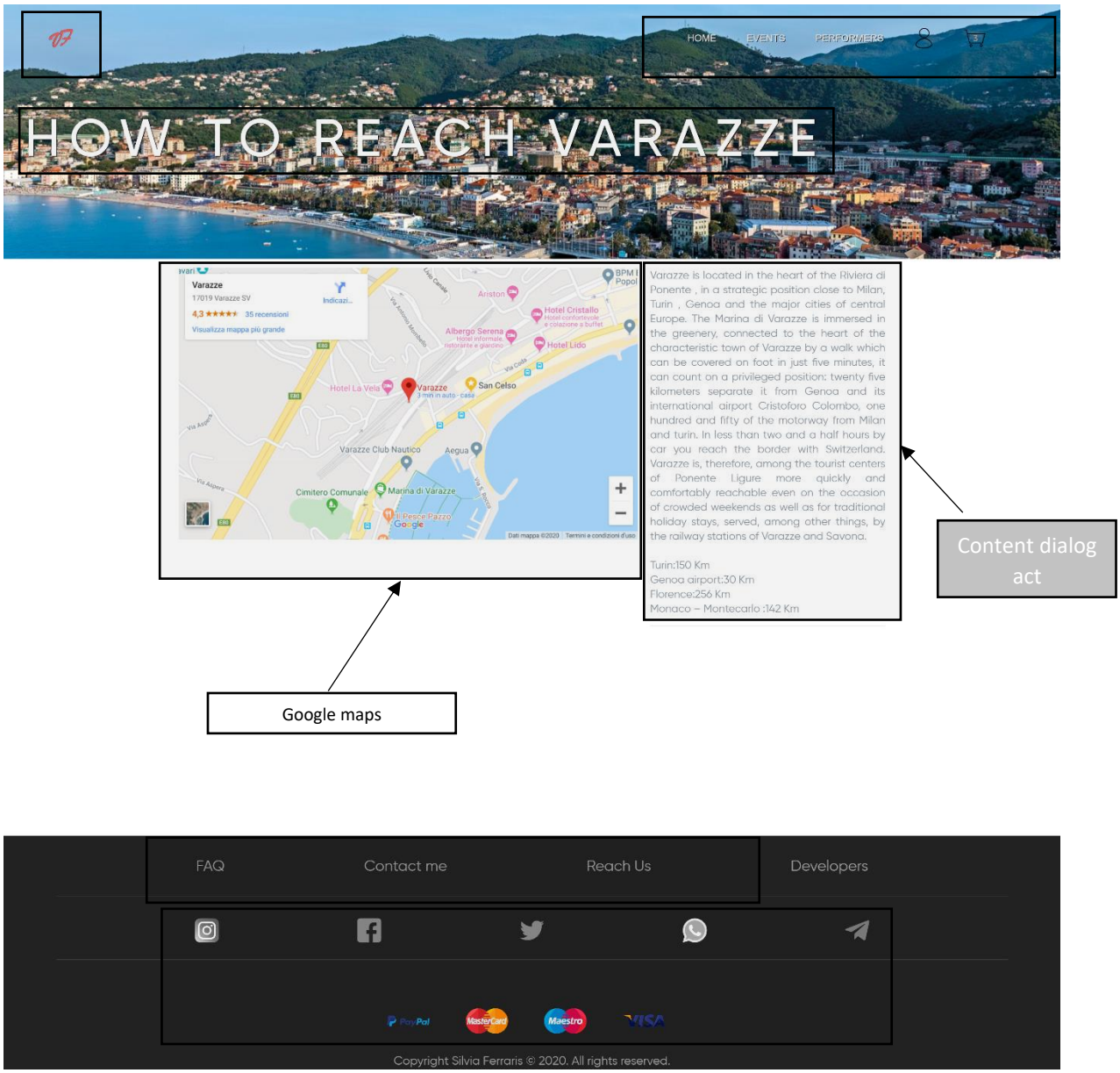
7 Contact me page screenshot

4.8 FAQ page



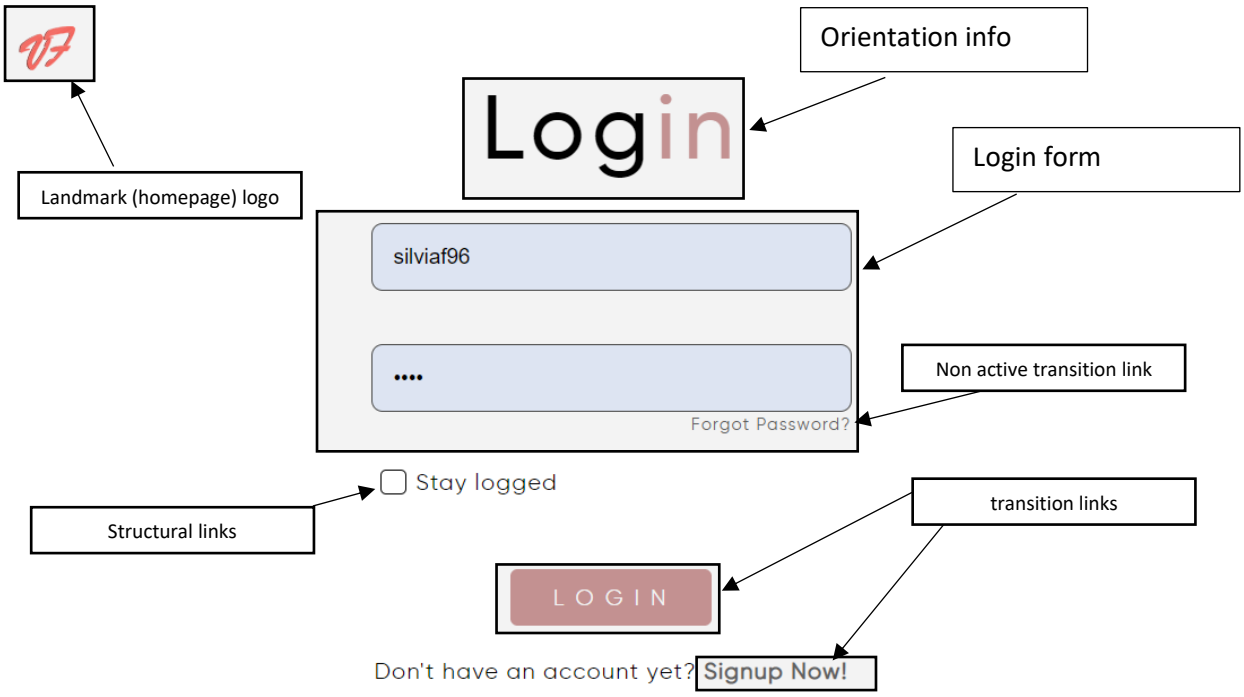
8FAQ page screenshot

4.9 Reach us page



9 Reach us page screenshot

4.10 Login page

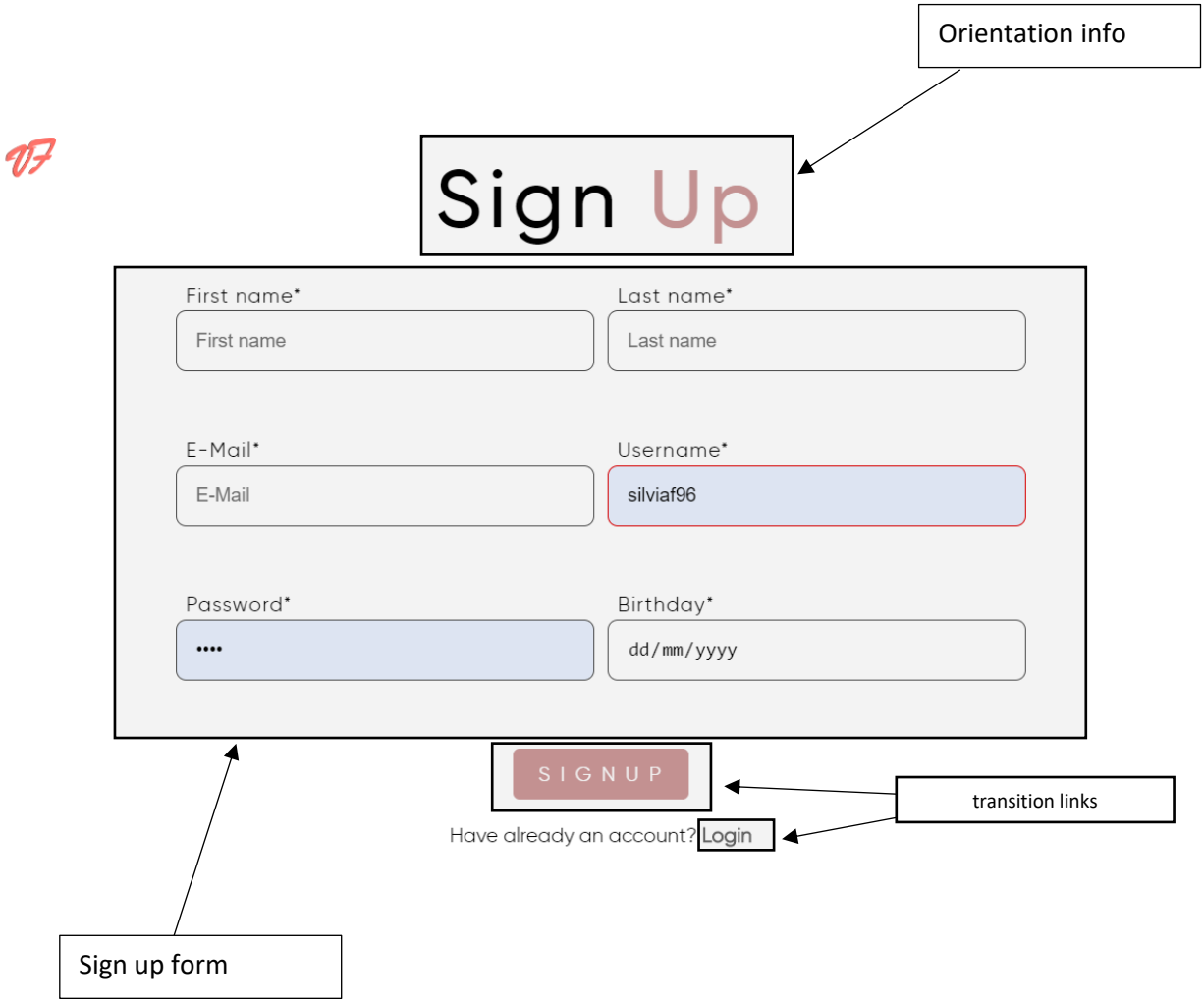


10 Login page sreenshot

4.10.1 Logged detail

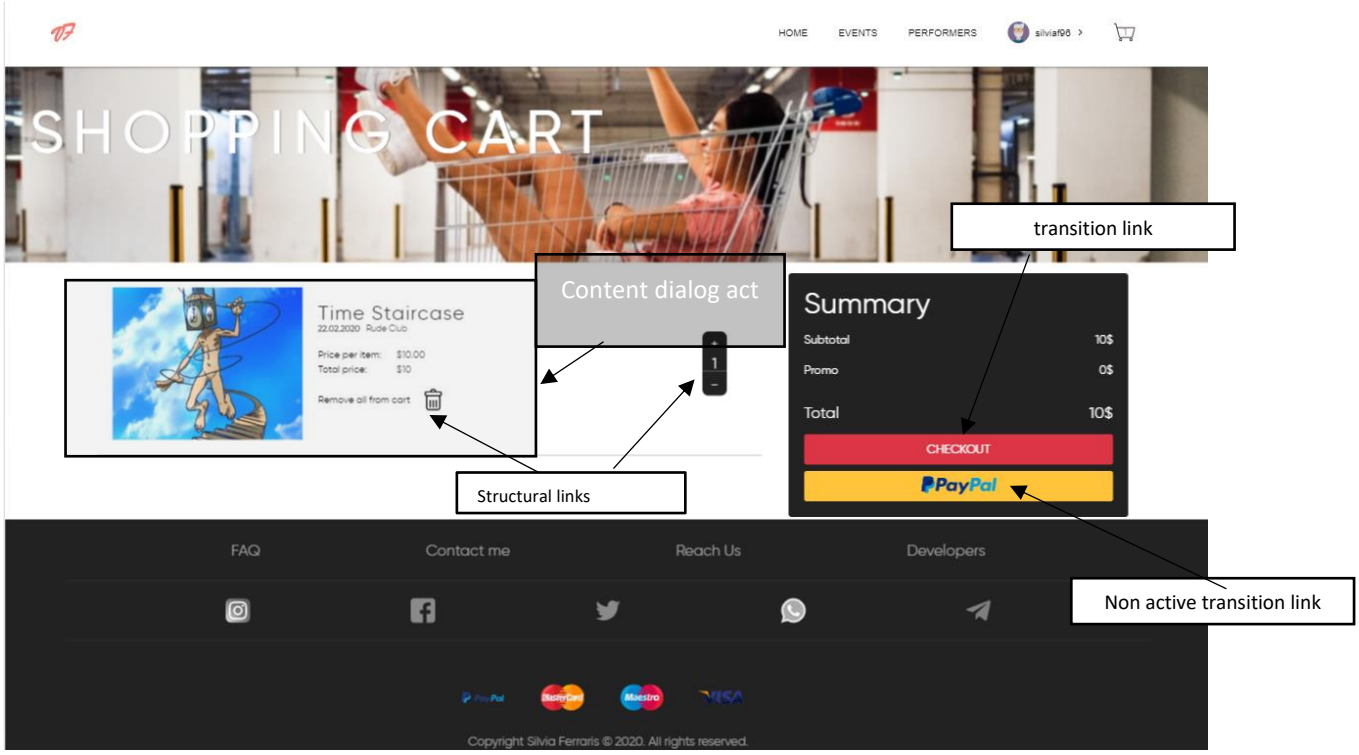
11 Logged detail screenshot

4.11 Sign Up page

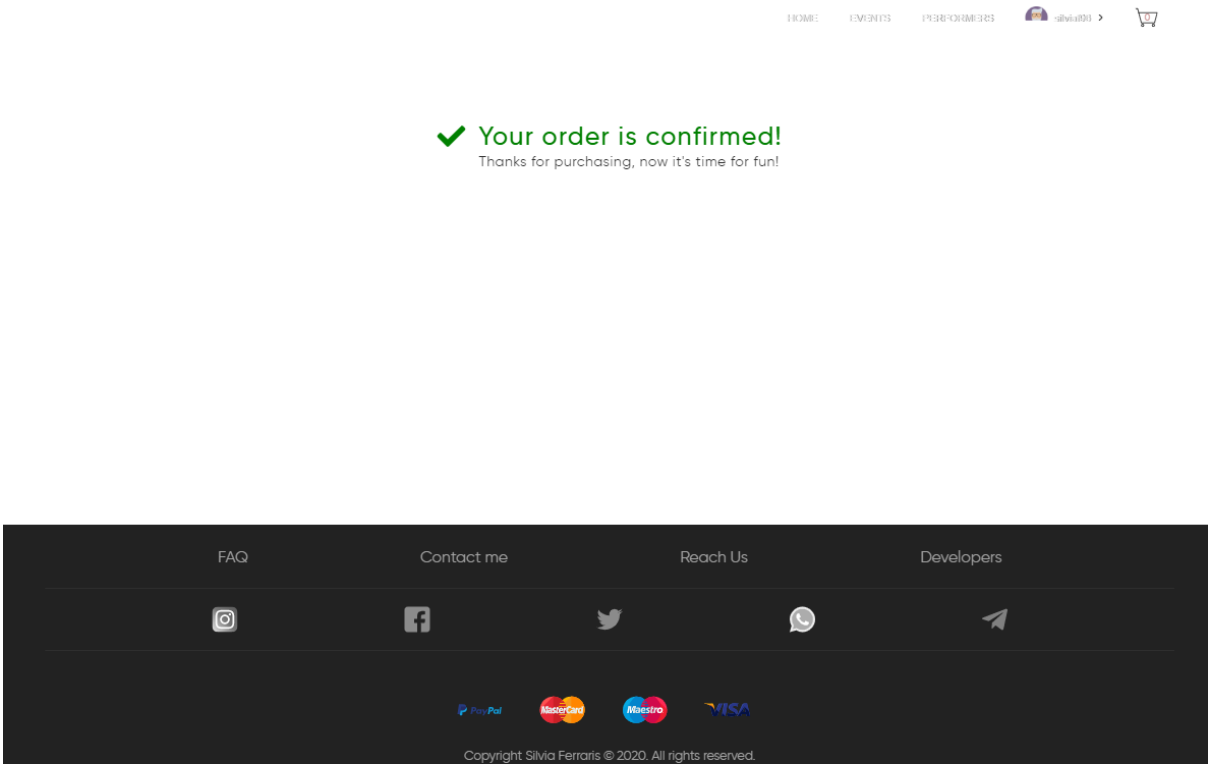


12 Sign Up page screenshot

4.12 Shopping cart page



4.12.1 Order confirmed page



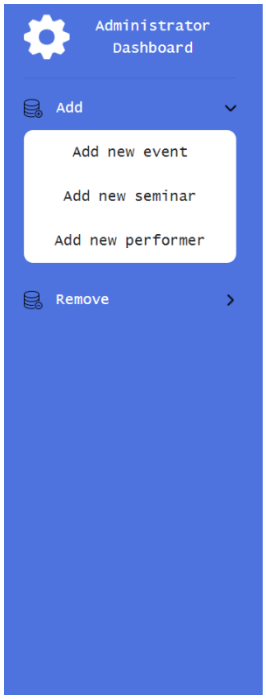
11 Shopping cart and order confirmed screenshots

4.13 404 page

12 404 error page screenshot

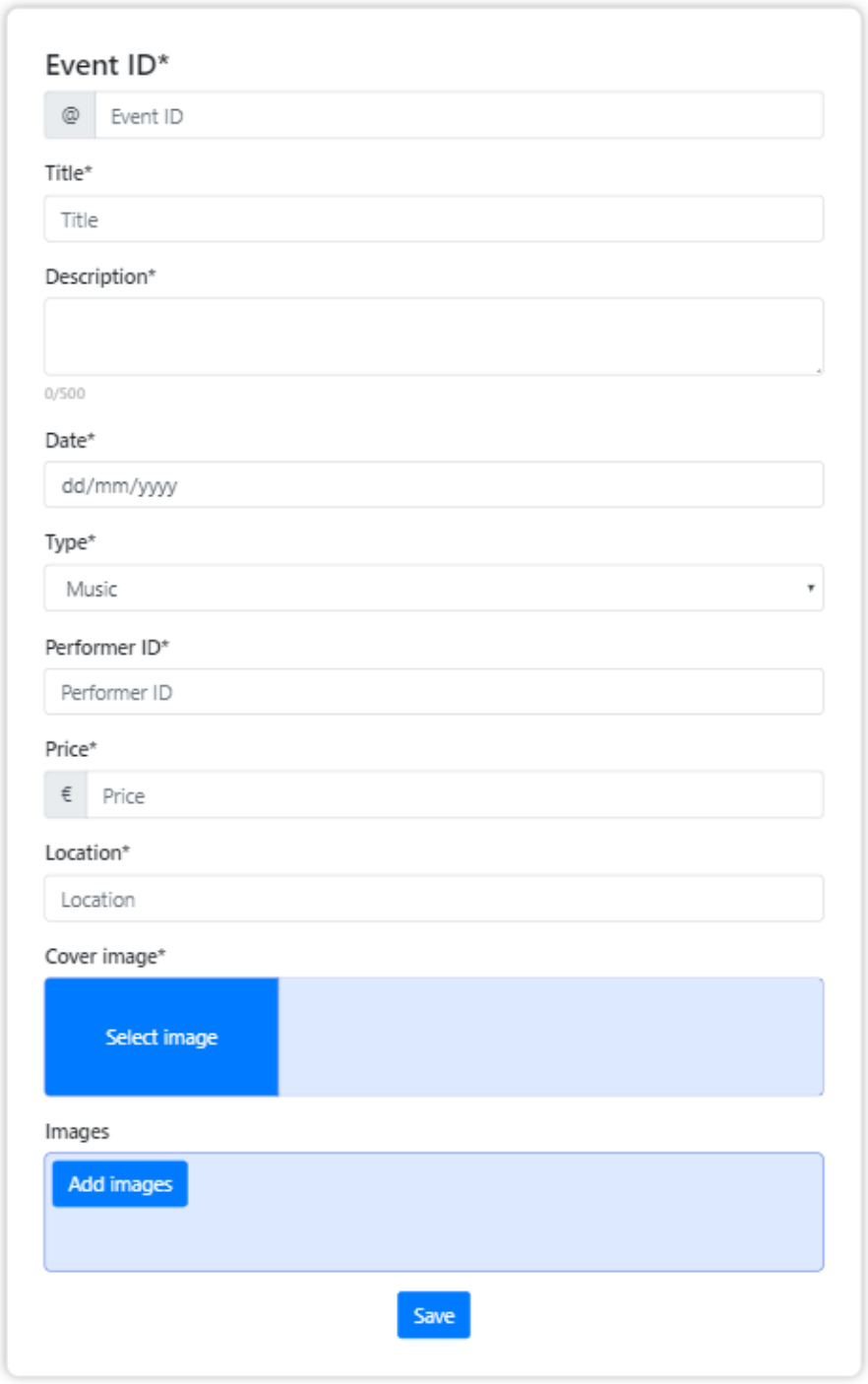
4.14 Dashboard

4.14.1 Dashboard details

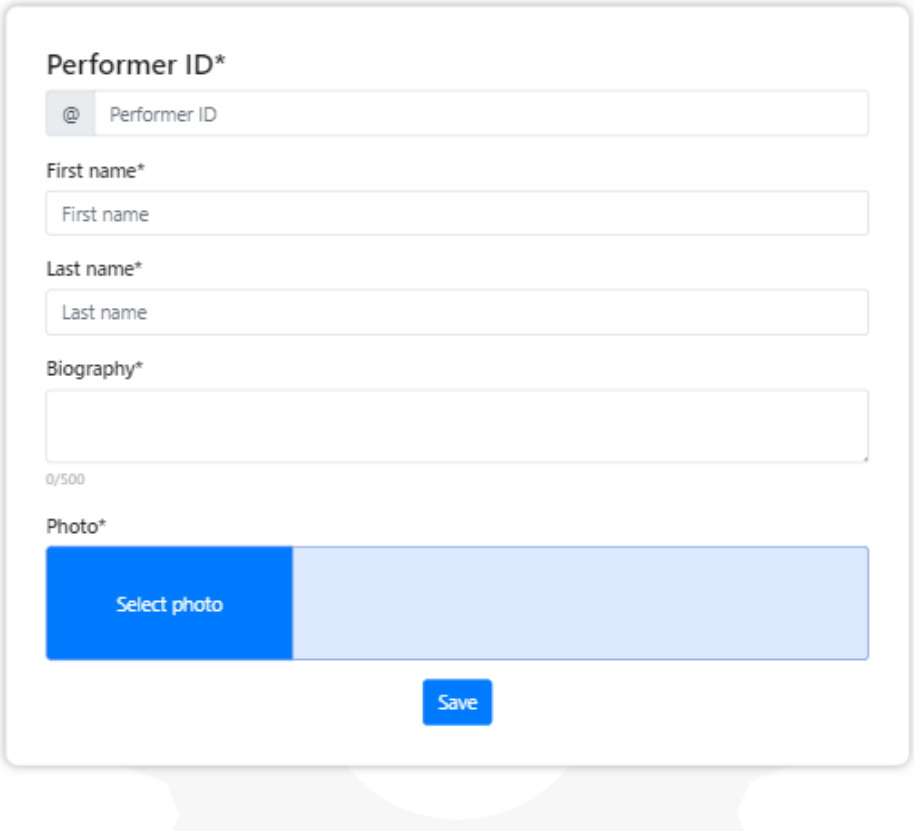


13Dahsboard page screenshot

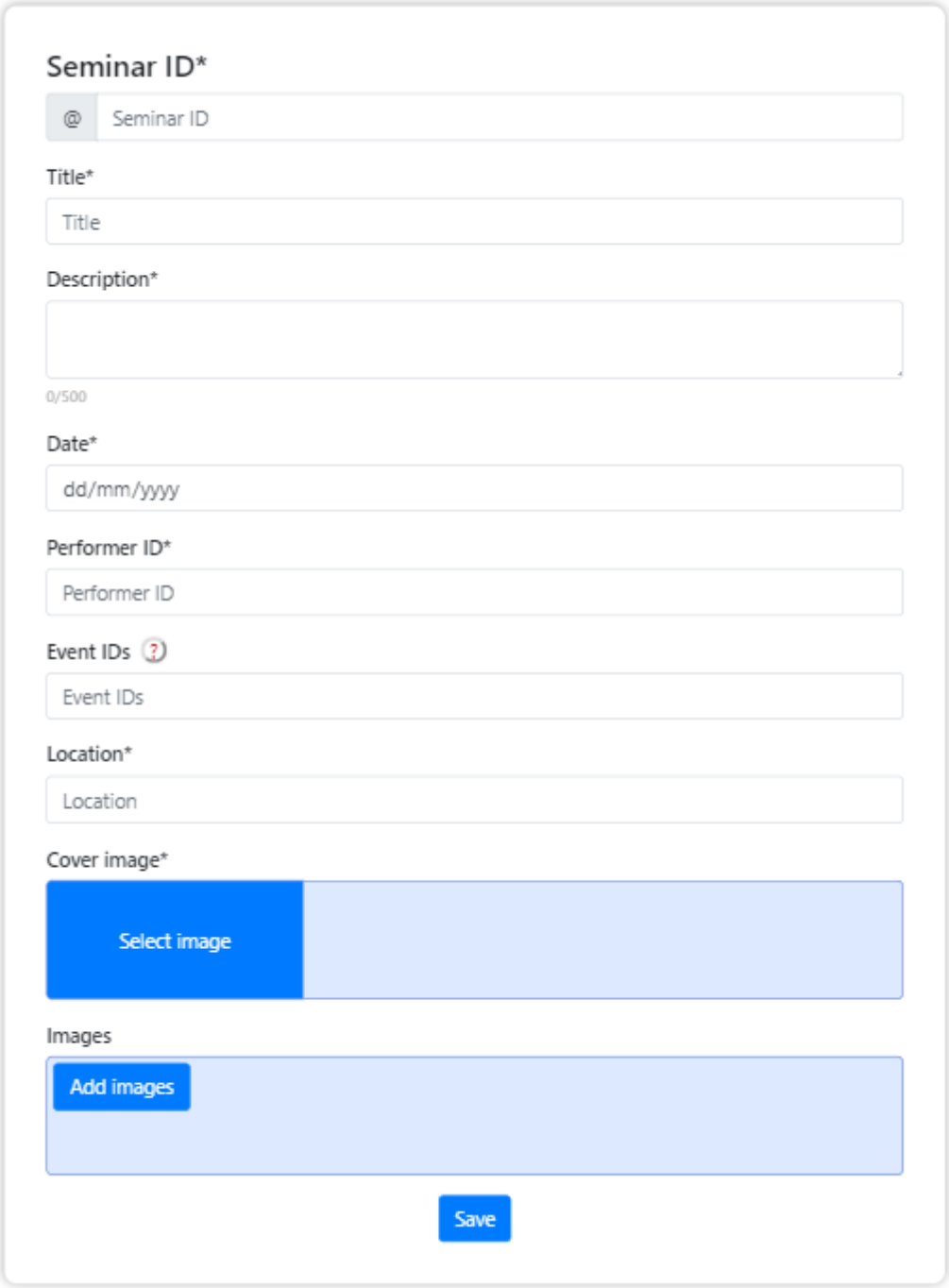
4.14.2 Dashboard- add event form



4.14.3 Dahsboard- add performer form

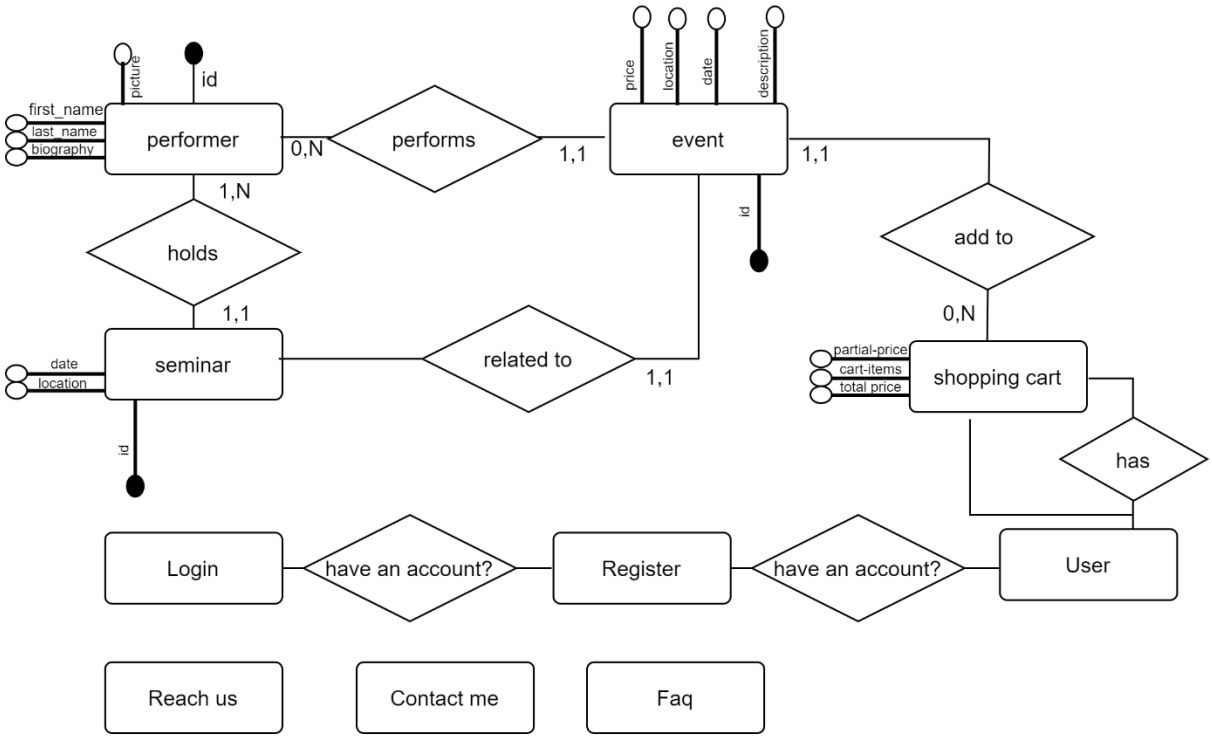


4.14.4 Dahsboard- add seminar form



5 Database Design

5.1 ER diagram



5.2 Database entities dependencies

Event.performer_id->performer.id

Seminar.performer_id->performer.id

Seminar.event_id->event.id

Shopping_cart.user_id->user-id

5.3 Database entities

performer	
PK	**id**
	first-name
	last_name
	biography
	photo

event	
PK	**id**
	title
	description
	date
	image
	price
	location

seminar	
PK	**id**
	title
	description
	date
	location

user	
PK	**id**
	username
	email
	password
	first-name
	last_name
	birthday
	avatar
	admin

shopping-cart	
PK	**id**
	total-price
	partial-price
	total items