****

Hypermedia Applications a.y. 2017/18

Design document

**Edoardo Daniele Cannas –** [edo.cannas@live.it](mailto:edo.cannas@live.it)

**Lorenzo Randazzo –** [lorenzo.randazzo@mail.polimi.it](mailto:lorenzo.randazzo@mail.polimi.it)

**Andrea Vaghi –** [andrea.vaghi@mail.polimi.it](mailto:andrea.vaghi@mail.polimi.it)

**Abstract**

The following document aims at resuming the work done during the preliminar design phase of the project of the Hypermedia Applications course.

The main goal of the project is the implementation of a non-profit organization web site, devoted to helping and supporting children and young adults with disabilities, along with their families, and to sensitize the public opinion on the themes related to disability, such as social inclusion, engagement, etc... .

The main focus of the web site is therefore to present the services offered by the organization, in order to offer useful information to parents looking for a particular professional performance for their children, and to promote the events and initiatives organized in its locations. Last but not least, the web site should highlights the role and impact of the organization in helping people with disabilities, encouraging in this way people to donate and participate actively to the organizations’ activities.

In the following, we report the work executed in each step of the design process. In particular:

* **For the design in the large, where we used the Interactive Dialogue Model for the planning of the content architecture of the web-site, we have include the C-IDM, L-IDM and P-IDM schemas along with some textual descriptions;**
* **For the scenarios ideation, the textual description of two possible use of our application;**
* **For the design in the small, the textual description of the requirements of the pages involved in our scenarios along with their graphical representation;**
* **For the database design, the ER schema.**

**Scenarios**

For the scenarios’ descriptions, we resorted to the following **personas**, which we thought may be representative samples of the typical categories of users of our application.

**Persona 1**: Carlo and Marianna are the parents of two beautiful children, Anna and Marco, of 6 and 2 years old respectively. Both their sons have always been solar and joyous, but lately Marco has started behaving quite strangely. While he always enjoyed playing with his sister, now he prefers to stay by his own, avoids eye contact and interactions with its parents, shows some obsessive behaviours. All these cues, suggested his parents to ask the opinion of a child psychiatrist, who diagnosed these symptoms in Marco as an autism spectrum disorder. Unfortunately, the doctor agenda has too many patients for inserting Marco too, but he suggests Carlo and Marianna to contact a non-profit organization, the \*NOME FITTIZIO ONLUS\* onlus, where an old colleague of his, doctor Mariangela Carolinna, works. After some initial shock, Carlo and Marianna, firmly resolved in doing anything possible for helping their son, decide to take action.

**Persona 2**: Roberta is a 16 old teenager: she likes reading, listening to music, going to theaters to see plays, etc… She is particular close to her best friend, Francesca, who has been diagnosed an Asperger syndrome in her early age. Throughout her childhood, Francesca participated to the activities organized by \*NOME FITTIZIO ONLUS\*, which helped her in reinforcing her confidence, expressing herself, and in general in building connections with other persons, such as her best friend Roberta. Sometimes the two girls attend the events organized by the association, and through these events, Roberta became aware of the work done by \*NOME FITTIZIO ONLUS\* to fight prejudice against people with disabilities. For this reason, she started supporting the association with a (small) monthly donation.

**Scenario 1:** Carlo and Marianna go to the \*NOME FITTIZIO ONLUS\* website to know something more about it, and to contact doctor Carolinna. They arrive in the homepage, where they see the “About us” landmark. They click on it, and arrive to the history page of the association. After having read the history and goals of the \*NOME FITTIZIO ONLUS\*, they click on the “Services” landmark: from here they see the different kinds of aids the association offers, and the people involved in them. They therefore see doctor Carolinna’s name under the service “Child neuropsychiatry aid”, they click on it, and arrive to the doctor’s page. Here they see the doctor’s professional history, and, reassured on the doctor’s professional abilities, they finally reach the “Contact us” page. From here, they find the phone number of the association, and they call to fix an appointment.

**Scenario 2:** Roberta this month has not donated yet, therefore, she connects to the \*NOME FITTIZIO ONLUS\* website. From the home page, she clicks on the landmark “Help us”. From here, she clicks on the “Donate now” link, which redirects her to an external payment gateway. After visualizing a thanks page, she gets redirected to the home page of the site.

**Scenario 3:** In the meantime of the payment, Francesca phones Roberta and tells her that a play has been scheduled for this weekend at the \*NOME FITTIZIO ONLUS\* headquarter. From the home page, Roberta goes to the News section to know more about it. She arrives in the page, where she clicks on the “Event by date” link: a little calendar pops up, and she selects the dates of this week. The website redirects her to a list of events, and after scrolling she finally sees the play scheduled for the following Saturday: it is a Shakespeare play, “Macbeth”. She clicks on the event title, and arrives to the event page: a beautiful picture of Lady Macbeth dominates the view, while in the description of the event, the details of date and hour are listed, along with the name of the company is going to perform. There is a ticket entrance, but the revenue of the play is all going to the association. Roberta happily phones back Francesca to tell her everything.