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Design document

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**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.**

**Introduction**

For our project we have devised an imaginary onlus, called “Abilitiamoci”.

The “Abilitiamoci” Onlus is a non-profit organization made by citizens aiming at offering support services and help to children and young adults (18 - 30 years old) suffering from **mental and physical disabilities**, or rather that set of disabilities limiting and preventing some people to accomplish tasks considered as ordinary from the intellectual, communicative and relational point of view.

“Abilitiamoci” administrates 5 semi-residential structures (day-centres), located in the cities of Milan, Pavia, Como, Treviglio and Cremona. Overall, the centres offer:

1. Health services;
2. Care, support and promotion services for the families of the assisted;
3. Training for care technicians, assistants and educators.

Each location features a medical team made by

* A medical director (psychiatrist);
* A psychologist;
* Professional educators;
* Social workers;
* Care technicians;
* Healthcare assistants.

The medical team takes in charge the subject evaluating his/her individual needs, and plans a set of activities among those offered by the different centres, identifying the most appropriate path for the recovering and enhancement of the abilities and skills of the assisted. All of these activities are figured out in the context of the **Percorso Educativo Individualizzato (PEI)** and of the **Progetto di Vita**.

Among the health services, we can distinguish between **basic health services** (offered in every centre) and **specific activities** (offered only in specific centres). The basic health services comprise (in red the main professional figures involved in the provision of the service):

* Activities focused on the developing of personal autonomies of the assisted: teaching of skills relative to hygiene, personal care, etc… (educators, assistants, psychologists);
* Individual psychological interventions focused on the acquisition and enhancement of cognitive, relational and behavioural skills (educators, psychologists);
* Group occupational therapy (laboratories) (educators).

The specific activities instead comprise:

* pet therapy (Como, Pavia, Treviglio) (psychologists, educators);
* hippotherapy (Como) (psychologists, riding instructor);
* music therapy (Cremona) (psychologists, care technicians);
* carpentry workshop (Cremona) (educators, external professionals);
* art therapy (Pavia) (psychologists, care technicians);
* healing plants and herbs cultivation workshop (Treviglio) (educators, external professionals).

For what concerns the **support services for the families**, they are offered in all locations, and comprise:

* support interventions and psychological counselling (psychologists);
* group therapy with other families (psychologists, educators).

Finally, the **educational activities**, which are provided only in Milan, comprise:

* refresher seminars (all figures);
* educational aid training (psychiatrists, psychologists, educators).

**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. Since the family lives in Milan, the doctor suggests Carlo and Marianna to contact a non-profit organization, the “Abilitiamoci” 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 theatres 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 “Abilitiamoci”, 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 “Abilitiamoci” 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 “Abilitiamoci” website to know something more about it, and to contact doctor Carolinna. They arrive in the homepage, where they see the “Who we are” landmark. They click on it, and arrive to the history page of the association. After having read the history and goals of “Abilitiamoci”, 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 “Individual psychological intervention”, 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 “Abilitiamoci” website. Roberta’s dad recently opened a new bank account for her, to make her more responsible in managing her money. This month she has not donated yet, therefore, she connects to the “Abilitiamoci” website. In fact, Roberta remembers that she can directly donate to the organization with a bank transfer. Therefore, from the home page, she clicks on the landmark “Help us”. From here, she reads the “Donate now” section, which reports the instruction for donating to the association.

**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 “Abilitiamoci” headquarter in Milan. From the home page, Roberta goes to the Events 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.