1.Barcodes vs. RFID chips

We had to decide what kind of authentication method to use when one of our clients is entering the event. So we concidered two options, barcodes and RFID chips. We chose rfid chips because:

-It is more secure

-has big read range

-easier to manage

2.Technologies

When we were deciding what technologies and programing languages to use. We conclued that we have to use something very accessible and popular with a lot of available resources because our company is not very experienced in the sphere. So we chose:

-PHP for the back-end of the website

-MySql for the database

-CSS and Javascript for the front-end

-C# and Windows Forms for the applications

3.Database design

We chose this database design because we wanted to keep everything as simple as possible and this to give us the possibility to make fast and simple queries.

4.Website and Applications design

The design of the website and the applications has to be highly user-friendly, accessible, and intuitive so that visitors with any level of experience and computer skills could easily operate them.

5.Authorisation process

We chose to have two ways of receiving and assigning the RFID chip.

-Every RFID chip will be assigned to the client at the spot, this give us bigger control and increases the security level

-Assign it and send it to the client by mail, so he will not need to wait at the entrance queue

6.Reserved places

About the seats on the activities and workshops we decided that only half of the are going to be reservable and if the person who reserved a place is late with more than 15 minutes his set can be taken by someone else.

7.Shop

When a certain client goes to the shop he/she intialises his purchase by scanning his/her chip, chooses what he/she wants to buy, then the worker submits and the money are substracted from the cliet’s account.

8.Lost bracelet

In case a client loses his bracelet, he goes to a special tent where a new bracelet is reasigned to him.