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**INTER-LIGAS INTRANET SYSTEM**

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*Keywords*: Leagues + soccer + Planning + Manager + Ranking + Match + Team Players + Results + Intranet + Extranet + Average + Statistics + Web + Joomla + Joomleague + Jquery + Charts
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1. PROJECT PLAN - INTRODUCTION

INTER-LIGAS INTRANET SYSTEM

The company is dedicated to promoting open source programs that work with open source.
The company detected within the current market needs of this and offers free installation and use without having to buy licenses, fully customized programs and led to the end user.

The main objective is to bring regional leagues leagues above, providing a level of presentation and follow-up activities, which motivates the components of these categories.
Our project starts with creating an intranet, from open source, which encompasses information from the regional leagues of cities, communities, and finally if the project is successful, by country.

The information to be highlighted are the schedules, results, information about teams and players, with statistics showing a prediction of the matches and tournaments to play based on the records.

Each club has a section of the intranet led their teams with an administrative panel where you manage your information in a personalized way.

The image information is divided completely optional but recommended, as it aims to share relevant information of interest from clubs at:

• Pitch and performance (changing rooms, facilities, image type field optional.)
• Equipment categories and related links involving a season with their general and specific statistics.

• Players that make up each team with averages of attack, defense, passing, cards, free throws, shots, etc.. Open flash chart integrated into modules JoomLeague and solving the current problem of compatibility with templates using Warp5, as there is a conflict of bookstores.

• A list of all players (with filter for leagues, tournaments and communities) show a top 20 or 30 (yet to be decided) ordered medium, obtained by surveys in an early version and votes in real time, in future versions as the project evolves. This function is explained later.
• Players will implement a search engine with filters.
We must not dismiss the idea that if we survey a reliable and we implement the voting system in real time by phone, a figure appears automatically in the system scout, covering the top players and clubs offer offers, even coaches and referees.
The best players of the season, cities, or communities, and divisions, can be named best player, top scorer, played more minutes and less fouls committed to sportsmanship, best goalkeeper and more ..
• Results of days within each league.

• Ranking. Until now there is a first test version, with sample data where there have been some changes to the styles, can be found here. For now visible in Firefox with html5 standards.
In this ranking or rating color display equipment amounting to above and the relegation places.

As the project progresses a flash map that you can select the different communities, so the menu will lead to different clubs and every team will have a shortcut url to show section within the intranet.

As innovative and differentiating features include the Android application programming for the mobile version of the intranet, much smaller than the original version, including voting or distribution of game titles as they can be man of the match, keeper of the meeting, and other securities to devise, and the interface that allows you give your opinions on blogs, allowing downloads of pictures and short videos of the games. The application displays a list of all players of the game and the division of securities, together with the surveys found on the intranet web version, make up half of the players who placed in the list of best players of the season thereby promote the effort with sportsmanship, also the lowest reward misconduct, or less cards per time played. The representation of information by clubs, will be much greater, since you can access statistics and resources that the current website of the sports federation. You will open the area of communication between federations, since the idea is to cover the whole country, and even able to translate and versions for different countries.
The issues that the product is the clarity with which the viewer will see the games as they can be reviewed at all times via mobile, as is the classification, the mean and reviews of each player, photos, and make your own evaluation voting or commenting on the meeting. The latter is not a problem but if it helps in the attitude with which we can follow a game, when you have this information.
The visiting players, in the case of not knowing the local computer facilities may visit through a virtual tour that provides intranet and to describe the characteristics of the team facing middle and expected result being a motivating factor for this, the possibility of breaking up the odds.
The market need is unclear, because we are accustomed to the yawning gap between football's 1st and 2nd division with the regional categories, which are relegated to the background, where no one works in the same way to reach bringing them together, and above all, incentive motivation of the younger age categories.
We could say that there is a need but there is an opportunity to enhance, and create enthusiasm for football at all levels.
1.1.1. **Project participants**

Participants: 4 informatics who will share the work according to their knowledge (escalations) and work experience to develop. (Responsabilities will change according this parameters). All workers must be certified as a computer engineer or have a experiancience that replace this degree in the specialty programming with php, mysql, apache, html, xhtml, javascript, ajax. Programs to use are the most common text editors a local environment for working with data packets and database tables.

1.1.2. **Project result**

The result is a finished and functioning software product according to end user requirements that are likely to be composed of an intranet that encompasses all the information prior agreed with an administrative panel that the user will access a user name and password, and whereby you can create and update the information.

1.1.3. **Product users**

The software provides an interface where you create players and football teams within a club, then view them via web, with other clubs. The system is very intuitive and no preparation is necessary but if it is recommended a mini-tutorial provided by the company for free.

1.1.4. **Project justification**

I selected this topic because I am working on developing a similar project in Spain, and it seemed interesting to talk to better understand the development and help the company in an optimum development.

1.2. **Project Objectives**

1. Ending a fully functional version of the project start on time
   1.1 Set times for completion of version 1.0 of the draft
   1.2 Distribute work efficiently, more qualified personnel assigned to more complex tasks.
      1.2.1 Define the most difficult tasks
      1.2.2 Defining the specialization of each worker

2. Create a multitasking work environment
   2.1 Create an operational server
   2.2 Ensure better communication between workers easily
      2.2.1 Install forums with didactic material and store details of the work
   2.3 Using the same versions of domestic programs

3. Maintain direct contact with users (helpdesk)
   3.1 Assign a commercial relationships and to explain the operation of projects

4. Adjust prices so that there is very little competition
   4.1 Market full study
# 1.2. Project Schedule

## 1.2.1 List of activities

<table>
<thead>
<tr>
<th>ID</th>
<th>Nombre de tarea</th>
<th>Duration</th>
<th>Start</th>
<th>Finish</th>
<th>Procesadores</th>
<th>Resource Names</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Hiring the project working personal</td>
<td>14 days</td>
<td>Tue 01/02/11</td>
<td>Sun 20/02/11</td>
<td></td>
<td>Hiring the project working personal</td>
</tr>
<tr>
<td>2</td>
<td>Install apserv (apache, php and mysql)</td>
<td>5 days</td>
<td>Mon 21/02/11</td>
<td>Fri 25/02/11</td>
<td></td>
<td>Install apserv (apache, php and mysql)</td>
</tr>
<tr>
<td>3</td>
<td>Install joomla template</td>
<td>3 days</td>
<td>Sat 25/02/11</td>
<td>Tue 01/03/11</td>
<td></td>
<td>Install joomla template</td>
</tr>
<tr>
<td>4</td>
<td>Install foro to store project changes Information</td>
<td>2 days</td>
<td>Wed 02/03/11</td>
<td>Thu 03/03/11</td>
<td></td>
<td>Install foro to store project changes Information</td>
</tr>
<tr>
<td>5</td>
<td>Install tortoise</td>
<td>6 days</td>
<td>Fri 04/03/11</td>
<td>Tue 15/03/11</td>
<td></td>
<td>Install tortoise (share work environment)</td>
</tr>
<tr>
<td>6</td>
<td>Install joomlaque module</td>
<td>8 days</td>
<td>Fri 04/03/11</td>
<td>Tue 15/03/11</td>
<td></td>
<td>Install joomlaque module</td>
</tr>
<tr>
<td>7</td>
<td>Change css into the current corporative template</td>
<td>30 days</td>
<td>Wed 15/03/11</td>
<td>Thu 26/04/11</td>
<td></td>
<td>Change css into the current corporative template</td>
</tr>
<tr>
<td>8</td>
<td>Set up the joomlaque links</td>
<td>15 days</td>
<td>Wed 16/03/11</td>
<td>Tue 05/04/11</td>
<td></td>
<td>Set up links (Tournaments, Teams, Matches, Players)</td>
</tr>
<tr>
<td>9</td>
<td>Globalize php variables</td>
<td>30 days</td>
<td>Wed 06/04/11</td>
<td>Tue 17/05/11</td>
<td></td>
<td>Globalize php variables</td>
</tr>
<tr>
<td>10</td>
<td>Testing</td>
<td>10 days</td>
<td>Wed 16/05/11</td>
<td>Tue 31/05/11</td>
<td></td>
<td>Testing</td>
</tr>
<tr>
<td>11</td>
<td>Adjust parameters to comercialize the version</td>
<td>55 days</td>
<td>Wed 15/03/11</td>
<td>Tue 31/05/11</td>
<td></td>
<td>Get on up to comercialice version</td>
</tr>
<tr>
<td>12</td>
<td>Finish stable version v1.0</td>
<td>15 days</td>
<td>Wed 01/06/11</td>
<td>Tue 21/06/11</td>
<td></td>
<td>Finish stable version v1.0</td>
</tr>
<tr>
<td>13</td>
<td>Discuss prices</td>
<td>4 days</td>
<td>Wed 22/06/11</td>
<td>Mon 27/06/11</td>
<td></td>
<td>Discuss prices</td>
</tr>
<tr>
<td>14</td>
<td>Help desk</td>
<td>7 days</td>
<td>Wed 22/06/11</td>
<td>Thu 30/06/11</td>
<td></td>
<td>Work in a help desk</td>
</tr>
<tr>
<td>15</td>
<td>Contract a hosting server and install our project</td>
<td>12 days</td>
<td>Fri 01/07/11</td>
<td>Mon 18/07/11</td>
<td></td>
<td>Hire hosting services and install v1.0</td>
</tr>
<tr>
<td>16</td>
<td>Show project to users</td>
<td>1 day</td>
<td>Tue 15/06/11</td>
<td>Tue 19/06/11</td>
<td></td>
<td>Show project to final user</td>
</tr>
<tr>
<td>17</td>
<td>Mini tutorial</td>
<td>1 day</td>
<td>Tue 15/06/11</td>
<td>Tue 19/06/11</td>
<td></td>
<td>Tutorial teaching</td>
</tr>
</tbody>
</table>
1.2.2 Gantt diagram + Critical Path
## 1.3 Project List Resource

<table>
<thead>
<tr>
<th>Resource</th>
<th>Resource Type</th>
<th>Resource price</th>
<th>Activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Workers(4)</td>
<td>Human</td>
<td>Percentage from Project final price</td>
<td>Programming</td>
</tr>
<tr>
<td>Laptops(4)</td>
<td>Technical</td>
<td>Every worker provides his own</td>
<td>Working tools</td>
</tr>
<tr>
<td>Joomla</td>
<td>Content Manager Sistem</td>
<td>Open source</td>
<td>Main engine for all project</td>
</tr>
<tr>
<td>Appserv</td>
<td>Package with apache, php engine and mysql installs</td>
<td>Open source</td>
<td>The engine of database and programming tools</td>
</tr>
<tr>
<td>Joomleague</td>
<td>Joomla module</td>
<td>Open source</td>
<td>Manage Tournaments, teams, matches and players</td>
</tr>
<tr>
<td>Tortoise</td>
<td>Repository</td>
<td>Open source</td>
<td>Manage server backups and repositories</td>
</tr>
<tr>
<td>Assembla</td>
<td>Repository tool</td>
<td>Open source</td>
<td>Physical storage for repository</td>
</tr>
<tr>
<td>UltraEdit</td>
<td>Text editor</td>
<td>Open source</td>
<td>Programming tool</td>
</tr>
<tr>
<td>Getipdirections</td>
<td>Joomla extensions</td>
<td>Shareware license for joomla</td>
<td>Get the ip direction where the user is connected</td>
</tr>
<tr>
<td>OpenChart</td>
<td>Flash statistics</td>
<td>Open source</td>
<td>Shows statistics in flas format</td>
</tr>
</tbody>
</table>
## 1.4. Project Risk Management Plan

<table>
<thead>
<tr>
<th>RISK</th>
<th>RISK ASSESSMENT</th>
<th>PRIORITY</th>
<th>MITIGATION MEASURES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loss of information</td>
<td>It is possible to lose the progress of the project or all information, which would not meet the time limit set for completion.</td>
<td>1</td>
<td>Backups every week</td>
</tr>
<tr>
<td>Exceed the time set for the project</td>
<td>As previous work without a contract this risk is not very important but there must be a client agreement would involve restoring the economic agreement and the worst would suspend the project</td>
<td>3</td>
<td>Keeping track of time and devote more staff to work who are costing more work</td>
</tr>
<tr>
<td>Costs exceed the predictions</td>
<td>The module or component used to become payment module</td>
<td>3</td>
<td>We should be able to quell this risk seeking an extension in joomla shareware or programming for members of the company</td>
</tr>
<tr>
<td>Costs exceed the predictions</td>
<td>We may need a more reliable host (fee)</td>
<td>1</td>
<td>There is the possibility of operating a server inside the company's core</td>
</tr>
</tbody>
</table>
### 1.5. Project Plan Changes

Changes during the project will be recorded in a section installed at the beginning of development.
Each worker is logged with your username and password and logs its changes to the code clearly for upcoming changes.
Used a forum in which workers will continue the work and recorded the changes. Not set a project manager, so that all workers contribute and have the privileges to modify the threads or tasks.

Managed versions of each file, the paths where changes are made, sorted by topics. This makes the forum is very useful when modifying these files again.

We found here some modifications to the intranet:

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Author</th>
<th>Issue #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 05</td>
<td>10:36</td>
<td>interligas</td>
<td>#27</td>
<td>#27: Modificados estilos para tablas con la opción de sombreado comentada (función style).</td>
</tr>
<tr>
<td>Apr 18</td>
<td>02:24</td>
<td>interligas</td>
<td>#26</td>
<td>#26: Algunos cambios para el show_player</td>
</tr>
<tr>
<td></td>
<td>01:14</td>
<td>interligas</td>
<td>#25</td>
<td>#25: Cambios en los estilos de las tablas resultados, ranking y plan (schedule). Ahora se iluminan!</td>
</tr>
<tr>
<td>Apr 16</td>
<td>21:03</td>
<td>interligas</td>
<td>#24</td>
<td>#24: Cabeceras de tabla ranking traducidas al español (se está utilizando de momento el english.php idioma por defecto)</td>
</tr>
<tr>
<td></td>
<td>20:20</td>
<td>interligas</td>
<td>#23</td>
<td>#23: ###IMPORTANTE###</td>
</tr>
<tr>
<td></td>
<td>16:57</td>
<td>interligas</td>
<td>#22</td>
<td>#22: Añadidos comentarios para schedule o agenda por equipos</td>
</tr>
<tr>
<td></td>
<td>16:55</td>
<td>interligas</td>
<td>#21</td>
<td>#21: Cambios los css para el schedule (la agenda por equipos)</td>
</tr>
<tr>
<td>Apr 15</td>
<td>00:53</td>
<td>interligas</td>
<td>#19</td>
<td>#19: Añade un tanto cutre del degradado del showtime en la tabla de resultados</td>
</tr>
<tr>
<td></td>
<td>00:30</td>
<td>interligas</td>
<td>#18</td>
<td>#18: Vuelve a renombrar la cache como estaba al principio. (se ha conseguido añadir a la lista ignorar) Si necesitas que la renombre para ponerte en la lista de ignorar me lo decides que se hace un momento</td>
</tr>
<tr>
<td></td>
<td>00:22</td>
<td>interligas</td>
<td>#17</td>
<td>#17: renombramos cache para pruebas añadir a lista ignorar</td>
</tr>
<tr>
<td>Apr 14</td>
<td>21:52</td>
<td>interligas</td>
<td>#16</td>
<td>#16: Descomentando echos</td>
</tr>
<tr>
<td></td>
<td>21:34</td>
<td>enriquegn</td>
<td>#15</td>
<td>#15: Cambios en las funciones (aun por implementar) de compilado de programas con muchos tablas de salida</td>
</tr>
</tbody>
</table>
2. REQUIREMENTS SPECIFICATION DOCUMENT

2.1. Project round-up

2.1.1. User problem and the rationale for project design

The company provides the end user a username and password. The user enters his administrative panel provided by the company through a url. After successfully logging in the user module is located within JoomLeague, which has been customized by the company to the user.

Project Management:
The first time you enter, you must complete the database with relevant information such as player data and images (in case available), position to which they belong, equipment (must turn up the teams that exist within the club), and as you progress you can add single league games.
The program displays all the necessary links on the basis of this information.

The business opportunity lies in the fact that the database is not global communities for the football team who play in Regional.

2.1.2. Project Objectives

This section should reflect the objectives of certain benefits or advantages of the system, such as its market value, the task performed by the user cost reduction, service quality and increase quantity of the customer.

The resulting product manages the database of the regional soccer leagues.

For the user is a leap in the information technologies used, since they have access to public data for details of other teams in their league. In addition to the internal management of his club. The user can use the intranet as a personal website.

This information solves the problem such that any team registered in any age category for any player that does not correspond (eg a game that allows a cadet in the category of children, in order to win the league, it is unfair to the other teams). The program automatically from the date of birth of the players located in corresponding category.

2.1.3. Clients

Customer - a person who pays the system and will work to develop the system owner.
Our customers are the directors of the teams that make up the various categories of regional leagues with all age categories.
Are the components of our company who come to the customers by offering a free program installation (so that all users have access to public information of the other components of the league or a tournament such as photo template ..)
You can get the information from contacts in any of the clubs website or visiting such facilities.
2.1.4. Buyers

The buyer - a person who buys a system (sometimes the customer and the customer can be the same person)
Our buyers and users are the same person.
Probably if the business has the federation's output is to stay with the project.

2.1.5. Other interested parties

Provide information on other systems affecting the development of individuals (3-4 persons) or the leadership of the project sponsors, technical specialists, designers, marketing specialists, project managers, testers and quality control people, etc. The information should include those identified as name, address, place of employment, position, contact. It is also necessary to specify how they are related to the development of systems and make them the importance of this requirement specification.

2.1.6. Users

Consumers - the people who directly use the system.
Directors of clubs. Spanish Football Federation. private clubs, sports in general.
Experienced users due to existing intranets belonging to the soccer federations and communities.
The figure of the manager (computer) would be a factor that speeded up our work (more small tutorial courses)

2.2. Project limits

You can make a functioning engine JoomLeague but are users who can do, using the error test until this program is reached, probably later.

2.2.1. Bounded solutions

2.2.2. System development time

1. Hiring the project working personal

Our first point is to get hold of the staff necessary for the proper development of the project.

In our case recruit the components of the task and developed company has been in touch with friends who had studied our own race, with specific knowledge of html, php and databases, and has been a common understanding of the fact of starting work for ourselves, as we wanted to invert some free time on some personal project.
Plan development and analysis of project has been following the agreement between workers to carry out because of this the start and end times of this task (14 days) is only indicative and could be possibly the widest variance of all tasks to be performed.

Possibly start another project this task would be omitted, if everything works according to the established, but is not a basis on which we will have at first.

What would happen if any of the components of the project gave low? In the worst case, that person would be replaced because it would not be viable to continue with a project of this size with less than 4 people.

2. Appserv installation

INSTALLING THE WORK ENVIROMENT
All workers will have to have computers installed in their working environment as follows:

The first step in the installation of the work environment is to have successfully installed an updated version of appserv, which prepares an environment with apache, php engine manager and mysql databases. We chose this packet because it is easy to install, upgrade, and rarely gives problems installing or running. Q There is no additional option set and we can be sure that all have the same version installed, but can work just with different versions of the program. What if this program started to give errors? It's not really an issue of priority 1 because the relocation would probably be sufficient to resolve this error but the packet sets up a very robust version of the environment since all installed versions are supported. For our Gantt chart we have 5 days and the duration of this task to ensure that all company members have an operational working environment, but relocation installation time of the package are just a few minutes.

AppServ is a full-featured of Apache, MySQL, PHP, phpMyAdmin. You can setup in 1 minute.

Package of AppServ
- Apache
- PHP
- MySQL
- phpMyAdmin
All packages download from Official Binary Release. AppServ objective just make easy to setup. We do not provide anything else more than Official Binary Release package. Because we think the Official Binary Release work better than compile by individual or third-party binary.

AppServ have only special configuration when install, Apache configure httpd.conf, MySQL configure my.ini, PHP configure php.ini. AppServ can guaranty any package from AppServ can work stable like Official of Apache, PHP, MySQL Release. Objective of AppServ Just Easy to install. You can setup web server, database server in 1 minute. For some question AppServ can be Real Production Web Server or Database Server. We can tell you Yes !! 100% can make AppServ to provide Production Server. But Windows OS is not good enough for heavy load on you web or database server. Windows OS architecture use more memory and CPU usage its recommend you to use Linux/Unix OS to service heavy load of work. Because Linux/Unix OS have more speed and use less memory and CPU usage. If you compare hit when use Windows OS and Linux/Unix OS you must be found a very difference speed. e.g. Windows can handle 1000 users per second but Linux/Unix OS can handle more than 1000 users per second and eat a little memory and cpu.

Appserv url:
http://www.appservnetwork.com/

3. Install joomla template

INSTALLING THE WORK ENVIROMENT
All workers will have to have computers installed in their working environment as follows:

We Need the engine joomla, working in our online server, pero not is NECESSARY for Workers to Have Their laptops joomla working in activitie Because the number 5, about Installing TortoiseSVN ins and They CAN take the repository from the server, But we will talk about this later.
Actually, There Are Two Ways to get this installation done:

----- Option 1 -----  

Option to install the engine in the local working environment and once running, using backups, upload to the server, which is not recommended because sometimes lose features to be replicating an entire database with all relevant calls in the code and routes (although the widespread joomla routes so that they can be updated with just a few clicks)

What would happen if the installation of the backup on the server give problems?
Well, here we enfrentariamo a top priority problems, since we could not continue with the development of applications and we should jump to the installation option 2, seeing facilities required to repeat modules already had done.
We therefore recommend this installation directly on the server as indicated in option 2.
Or install directly on the server version of Joomla that we as a repository, and will be the version of the end user dispondrá.Y after that get off the repository TortoiseSVN support (activity 5) for a development version in our local environment.

What would happen if once installed and running our version of Joomla, it was not possible to connect to the server and not allow us to copy the repository to the local environment where they can work?

This is another problem of priority 1 because it would mean more work in having to individually install joomla + JoomLeague, and changes to the server could perform only a single person to oversee all the work. It would appear the figure of a server administrator, responsible for the upgrade and provides a virtual environment where the other developers would make the changes and may make copies of the repositories.

Our Threshold in the times of this task has not had this type of additional difficulties and therefore this activity appears, and according to Gant diagram can be developed over a period of 3 days.

IMPORTANT: (IN GANT CHART WE HAVE NOT HAD IN MIND THE TIME OF INSTALLATION OF THE MODULE TO MANAGE THE BACKUP, BACKUP AKEEBA THAT IS PROBABLY NOT A KEY UNIT DEVELOPMENT PROJECT, BUT BACK TO THE SERVICE.)

UPDATE: COMPONENT AKEEBA BACKUP ALREADY INSTALLED AND WORKING (COST: 0 DAYS)

Joomla is a CMS. A content management system is software that keeps track of every piece of content on your Web site, much like your local public library keeps track of books and stores them. Content can be simple text, photos, music, video, documents, or just about anything you can think of. A major advantage of using a CMS is that it requires almost no technical skill or knowledge to manage. Since the CMS manages all your content, you don't have to.

Joomla is an award-winning content management system (CMS), which enables you to build Web sites and powerful online applications. Many aspects, including its ease-of-use and extensibility, have made Joomla the most popular Web site software available. Best of all, Joomla is an open source solution that is freely available to everyone.

Joomla main url: http://www.joomla.org/
Joomla demo url: http://demo.joomla.org/
4. JoomLeague installation

**INSTALLING THE WORK ENVIROMENT**

*All workers will have to have computers installed in their working environment as follows:*

![JoomLeague Logo](image)

**JoomLeague** is a full-featured league/competition management component with integrated prediction game for Joomla. Joomleague is currently available for either Joomla!® 1.0 and 1.5 and works with almost any server configuration tested on. Created in 2005 when a league management component was needed for Joomla. Lgmngr a Mambo CMS was used a base and after adapting it to work with Joomla!® and extending the features it was released under the GPL for the first time.

After finishing up JoomLeague 0.93 a crisis in the development caused the team to split up and JoomLeague 1.5 was a fact. Started from scratch a lot of coding was in place but after about a year of coding it came to a halt again, this time because of inactivity. A couple of months later it was picked back up and after a good period of bugfixing, implementing new features and enhancing the core this is where we currently are. Ready to launch the first Alpha and keep on working on makeing JoomLeague better and more user-friendly.

Joomleague url:

http://www.joomleague.net/

5. Install Forum to Report Changes.

Activities This is Not supposed to have any errors and we CAN make it work in a while so we CAN finish it in 2 days.

What if the installation gives errors?

We can find another module within all existing joomla extensions but the best solution would work on the resolution of errors since it is the best forum we can find for free, and working within our own database, and also is fully compatible with the latest version of joomla.

**UPDATE:**

Finally we used the assembler for the update and change log because it is an automated system saves us work. Thanks to the repository we have taken this step in the installation of the work environment. More information on the assembler and the use of tortoise in the Url provided in the bibliography.
6. Tortoise Installation

INSTALLING THE WORK ENVIRONMENT
All workers will have to have computers installed in their working environment as follows:

We choose this tool to make the Project Easier to update and make all workers can have the same version of the project when we begin to modify code. This is the most popular and probably one of the best that exists in the network. The tool creates a copy of the operational intranet server for each developer, and is by Tortoise we can directly update the content on our intranet or project. As seen in previous sections, the malfunction of this tool can be a significant increase in the critical path of our project. Hence the 8 days of installation and testing.

What if, by human error, will update an unstable version of the intranet, or to update, conflicted other modules or functionality?

If the result is a complete unusable, it would be advisable to re-install over the last backup we have.
If the problem is the conflicts and discovered later, the solution would be to try to fix it, if possible, would restore the last backup that is available.
If the problem is detected early conflicts, we must first consider whether the changes are essential for the proper development of the project, if not essential we can discard or alternatives, for example find a module or piece of code that the same functionality but that does not conflict with other modules.

TortoiseSVN is an easy-to-use SCM / source control software for Microsoft Windows and possibly the best standalone Apache™ Subversion® client there is. It is implemented as a Windows shell extension, which makes it integrate seamlessly into the Windows explorer. Since it's not an integration for a specific IDE you can use it with whatever development tools you like.
Tortoise url:
http://tortoisesvn.net/
2.2.3. Development of the system budget

This section provides the Estimated / expected Development Costs of the system numerical terms (cash). Because we are a subsidiary of an existing company is not spending the time to register a company. Try to make the project cost is 0 €. Pending only the financial rewards for programmers somehow finally seeing their work rewarded.

**Points during the project which may require a financial contribution:**

- Joomla modules or components that are not shareware (commercial version of the product)
- External programming to support the project.
- Hire a web host that offers more benefits than the current hosting (free and flawless for now)
- Commercial contracts and programmers in different communities for the instruction of joomla - JoomLeague and subsequent implantation in sports centers.
- Possible creation of a helpdesk

We are checking “Plan Avanza” continously checking for grants

2.3. System requirements

This section provides the system posed by the completion of the non-functional requirements. Each non-functional requirements in the form:

2.3.1. System requirements for appearance

We will formulate the requirements of the user interface or backend.

Using username and password, the user will access the administrative panel, with restricted permissions for each user.

The user must have the capacity (previous tutorial) to create change data of players - teams. Create and eliminate new players, assigning players to teams, etc.

Encourage maintenance of their own information within the intranet, work to update profile pictures of players or monitor the relevant information.

2.3.2. Usability Requirements

System requirements for the use of simplicity:
We assume that each component of the company has an own computer with the minimum requirements or recommended for the development of the application. Preferable to mind an Intel Core 2 Duo processor with enough hard drive capacity. No need to buy new equipment for making the working environment.
2.3.4. **For system maintenance**

System requirements for the maintenance and support after it is handed over to the consumer:  
As the intranet is running on an external hosting company, we can use the service from any computer with internet service.  
If you use a helpdesk that has to be active in a given period of time may be needed is a PC with internet connection, but would hire a staff job with fixed position and do not want to work with negative economic margins.

2.3.5. **Requirements for safety**

- Confidentiality - The data in the system to Protect Against Unauthorized access;  
- Integrity (Integrity) - the unique system of data Transmited by the source (derived from) the data, while Ensuring the Legality of Their use;  
- Accessibility - access to data Within a fixed time of Legitimate users.  
We will try to introduce a minimum of personal data unless there is a user's personal request to store them.  
All data conform to the rules of data protection law of personal character.

**Data protection principles**

1. Personal data shall be processed fairly and lawfully and, in particular, shall not be processed unless-  
   1. at least one of the conditions in Schedule 2 is met, and  
   2. in the case of sensitive personal data, at least one of the conditions in Schedule 3 is also met.  
2. Personal data shall be obtained only for one or more specified and lawful purposes, and shall not be further processed in any manner incompatible with that purpose or those purposes.  
3. Personal data shall be adequate, relevant and not excessive in relation to the purpose or purposes for which they are processed.  
4. Personal data shall be accurate and, where necessary, kept up to date.  
5. Personal data processed for any purpose or purposes shall not be kept for longer than is necessary for that purpose or those purposes.  
6. About the rights of individuals e.g. You have the right to have data about you removed.  
7. Appropriate technical and organizational measures shall be taken against unauthorized or unlawful processing of personal data and against accidental loss or destruction of, or damage to, personal data.  
8. Personal data shall not be transferred to a country or territory outside the European economic area unless that country or territory ensures an adequate level of protection for the rights and freedoms of data subjects in relation to the processing of personal data.
### 2.4. Use case diagram

![Use case diagram](image)

- User will be challenged by Login Page.
- User gets authenticated with LDAP via identity/access management tool (Netegrity/GAM etc.)
- URL would be configured in Reverse Proxy.
- Pass the token to portal as part of URL header information when being accessed.

### 2.5. Data Chart

<table>
<thead>
<tr>
<th></th>
<th>Aug '07</th>
<th>Sep '07</th>
<th>Oct '07</th>
<th>Nov '07</th>
<th>Dec '07</th>
<th>Jan '08</th>
<th>Feb '08</th>
<th>Mar '08</th>
<th>Apr '08</th>
<th>May '08</th>
</tr>
</thead>
<tbody>
<tr>
<td>Joomla 1.0</td>
<td>217,795</td>
<td>210,121</td>
<td>211,709</td>
<td>216,068</td>
<td>191,383</td>
<td>194,931</td>
<td>211,043</td>
<td>237,351</td>
<td>205,102</td>
<td>183,627</td>
</tr>
<tr>
<td>Joomla 1.5</td>
<td>79,734</td>
<td>98,754</td>
<td>110,663</td>
<td>98,026</td>
<td>118,014</td>
<td>127,270</td>
<td>234,791</td>
<td>197,404</td>
<td>230,572</td>
<td>214,387</td>
</tr>
<tr>
<td>Total</td>
<td>297,529</td>
<td>308,875</td>
<td>322,372</td>
<td>314,094</td>
<td>309,397</td>
<td>322,201</td>
<td>445,834</td>
<td>434,755</td>
<td>437,674</td>
<td>398,014</td>
</tr>
</tbody>
</table>

**Note:** Information for May was extrapolated based on half-monthly data.

![Joomla monthly downloads](image)
2.6. Project Output

2.6.1. Existing solutions

In this section, we will consider that you are creating similar software. The evaluation shall provide the following: product name, product brand, price (if paid product), product features a list of the pluses and minuses.

There is a soccer federation for communities. It is an intranet that manages the meetings (dates and results are produced) as well as the management of the ranking but not as specific as that offered by our company because as original data, to view a simple list of players, Users must connect with each club's official website, which is not required from our intranet, and also inter-league shows each player's personal statistics and general, each team, with half of both.
Also shown the preview match from these statistics, to motivate the players, you were able to surprise with the forecast results.

2.6.2. User documentation and training

1st What level of user documentation is needed?

There will be a help section in the frontend of the intranet.
In addition, a course of about an hour is given to familiarize the client with the backend or administrative panel showing you how to register a player, assign it to a computer, edit or delete records in the database.
The system access will be limited by categories of administration and management.

2nd Consumers Are Involved in the preparation of documentation?

It takes into account whether the clubs have a computer that can handle the administration of JoomLeague, so that the course is more enjoyable and reduced, assuming that some basic ideas were known in advance.
It is not necessary to take into account more parameters than the correct intrsucion staff.

3rd Who Will Be Responsible for Preparing and Updating the documentation?
The same users or informatic responsible within each club.

2.6.3. Prospective requirements

The outlook for new modules within the application will be using openchart (opensource) to show the statistics of the players as they are playing games and make half with overall team statistics.

2.7. Changes in the requirements specification document

All changes are recorded, versioned within the application stored in the Assembla repository managed by tortoise.
3. SYSTEM DESIGN DOCUMENT

3.1. Joomla ERD (Entity Relationship Diagram)

NOTES:
- checked_out is a common column in many of the tables and is in fact a foreign key to sys_user.id. These relations to the sys_user table have been left out to keep the diagram readable.
- Please submit comments to this diagram on the Joomla forums.
- This schema was created by David Johnston and is based on Joomla 1.5 alpha 2, revision 2406.

RELATIONSHIPS LEGEND:
- **Identifying**
- **Non-Identifying**
- one to one
- many to one
## 3.2. Detailed system design (Joomleague Component)

### 3.2.1. System architecture description

<table>
<thead>
<tr>
<th>Function name and purpose</th>
<th>Features Input</th>
<th>Features a description of the algorithm</th>
<th>Output Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Function <strong>display</strong> : Display the view from club info.</td>
<td>( $tpl = null )</td>
<td>Display the clubinfo listview</td>
<td>-</td>
</tr>
<tr>
<td>Function <strong>edit</strong> : displays select &amp; logos</td>
<td>( $tpl = null )</td>
<td>Set page title Edit Club Info model build the html select list for countries build the html select list for playgrounds display logo</td>
<td>-</td>
</tr>
<tr>
<td>Function <strong>_getShowClubInfoLink</strong> : Get the show club info link</td>
<td>()</td>
<td>Get the show club info link</td>
<td>$link</td>
</tr>
<tr>
<td>Function <strong>save</strong> : save query into database</td>
<td>()</td>
<td>save query into database</td>
<td>-</td>
</tr>
<tr>
<td>Function <strong>showranking</strong> : display ranking view</td>
<td>()</td>
<td>Get the view name from the query string Get the view Get the joomleague model</td>
<td>-</td>
</tr>
<tr>
<td>Function <strong>showresults</strong> : Show the football matches results</td>
<td>()</td>
<td>Get the view name from the query string Get the view Get the joomleague model</td>
<td>-</td>
</tr>
<tr>
<td>Function <strong>getClub</strong> : Get the club name</td>
<td>()</td>
<td>Contains the query to Get the club name</td>
<td>$club</td>
</tr>
<tr>
<td>Function <strong>getGoogleMap</strong> : Get the googlemaps coordenades</td>
<td>( $mapconfig, $address_string = &quot;&quot; )</td>
<td>Get the googlemaps coordenades</td>
<td>$gm</td>
</tr>
<tr>
<td>Function <strong>getTeamPlayer</strong> : Get Team Player</td>
<td>()</td>
<td>Contains the query to Get Team Player</td>
<td>$player</td>
</tr>
<tr>
<td>Function <strong>computeRanking</strong> : Manage home, away &amp; total rank tables</td>
<td>()</td>
<td>Get the url and divisions for ranking tables &amp; creates ranking objects</td>
<td>-</td>
</tr>
</tbody>
</table>
3.2.2. Database tables
4. TEST PLAN

4.1. Test Process Review

**Keyword-driven testing**, also known as **table-driven testing** or **action-word testing**, is a table-drive testing methodology for action-word testing that separates the test creation process into two distinct stages: a Planning and an Implementation Stage.

**PROS**

1. Maintenance is low in a long run
   1. Test cases are concise
   2. Test Cases are readable for the stake holders
   3. Test Cases easy to modify
   4. New test cases can reuse existing keywords more easily
2. Keyword re-use across multiple test cases
3. Not dependent on Tool / Language
4. Division of Labor
   1. Test Case construction needs stronger domain expertise - lesser tool / programming skills
   2. Keyword implementation requires stronger tool/programming skill - with relatively lower domain skill
5. Abstraction of Layers.

**CONS**

1. Longer Time to Market (as compared to manual testing or record and replay technique)
2. Moderately high learning curve initially

4.1.1. Test Objectives

This section we will identify the objectives pursued by the performance testing program designed for.
The objectives are to find inconsistencies in the lists in detail the views of the modules within joomleague.

4.2. Test cases

This section provides test cases for using the program will be designed for testing

<table>
<thead>
<tr>
<th>Nº</th>
<th>Description</th>
<th>Input Data</th>
<th>Expected results</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Verify that the data in the database are listed correctly</td>
<td>!= null instruction</td>
<td>Correct / Fail</td>
</tr>
<tr>
<td>2</td>
<td>Checking there is no duplicates</td>
<td>Char</td>
<td>Integer (how many times is the item found)</td>
</tr>
<tr>
<td>3</td>
<td>Average check</td>
<td>Char</td>
<td>Compare total average with every element</td>
</tr>
<tr>
<td>4</td>
<td>Verify host-server conexon periodically</td>
<td>Automated program</td>
<td>Correct / Fail</td>
</tr>
</tbody>
</table>
### 4.2.1 Last Bugs solved

<table>
<thead>
<tr>
<th>#</th>
<th>TIRO</th>
<th>TAREA PARE</th>
<th>ESTADO</th>
<th>TEMA</th>
<th>ASIGNADO A</th>
<th>VERSIÓN PREVISTA</th>
<th>% REALIZADO</th>
</tr>
</thead>
<tbody>
<tr>
<td>946</td>
<td>Module</td>
<td>Todo</td>
<td>New</td>
<td>mod_toni league results needs colspan</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>945</td>
<td>Frontend</td>
<td>Bug</td>
<td>New</td>
<td>Visible &quot;Picture of&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>944</td>
<td>Frontend</td>
<td>Bug</td>
<td>New</td>
<td>Roster - Picture ratio</td>
<td></td>
<td>1.5.2-sara</td>
<td></td>
</tr>
<tr>
<td>943</td>
<td>Backend</td>
<td>Bug</td>
<td>New</td>
<td>admin menu active</td>
<td></td>
<td>1.5.2-sara</td>
<td></td>
</tr>
<tr>
<td>942</td>
<td>Backend</td>
<td>Bug</td>
<td>New</td>
<td>tree notice error</td>
<td>comraden</td>
<td>1.5.2-sara</td>
<td></td>
</tr>
<tr>
<td>940</td>
<td>Extension</td>
<td>Prediction</td>
<td>game</td>
<td>Your selected Prediction Game does not exist on this site or is not published yet. Please check your link!</td>
<td></td>
<td>1.6.0</td>
<td></td>
</tr>
<tr>
<td>939</td>
<td>Module</td>
<td>Bug</td>
<td>New</td>
<td>ticker bug</td>
<td></td>
<td>1.5.2-sara</td>
<td></td>
</tr>
<tr>
<td>937</td>
<td>Frontend</td>
<td>Todo</td>
<td>New</td>
<td>Own goal (player assigned option)</td>
<td>comraden</td>
<td>1.6.0</td>
<td></td>
</tr>
<tr>
<td>935</td>
<td>Frontend</td>
<td>Bug</td>
<td>New</td>
<td>notice errors curve view</td>
<td>And_One</td>
<td>1.5.2-sara</td>
<td></td>
</tr>
<tr>
<td>934</td>
<td>Frontend</td>
<td>Bug</td>
<td>New</td>
<td>Curve chart over menus</td>
<td></td>
<td>1.5.2-sara</td>
<td></td>
</tr>
<tr>
<td>933</td>
<td>Frontend</td>
<td>Feature</td>
<td>New</td>
<td>[Translation] Injury</td>
<td>timeline</td>
<td>1.5.2-sara</td>
<td></td>
</tr>
<tr>
<td>932</td>
<td>Frontend</td>
<td>Feature</td>
<td>New</td>
<td>Showing age</td>
<td>timeline</td>
<td>1.5.2-sara</td>
<td></td>
</tr>
<tr>
<td>931</td>
<td>Frontend</td>
<td>Feature</td>
<td>New</td>
<td>Roster - Age (add header)</td>
<td>timeline</td>
<td>1.5.2-sara</td>
<td></td>
</tr>
<tr>
<td>930</td>
<td>Backend</td>
<td>Feature</td>
<td>New</td>
<td>Starting Lineups Pre-Filled From Roster</td>
<td></td>
<td>1.6.0</td>
<td></td>
</tr>
<tr>
<td>927</td>
<td>Frontend</td>
<td>Feature</td>
<td>New</td>
<td>Tooltip on Modules when using short-name or picture</td>
<td></td>
<td>1.6.0</td>
<td></td>
</tr>
<tr>
<td>926</td>
<td>Extension</td>
<td>Prediction</td>
<td>game</td>
<td>Flash charts in user view</td>
<td></td>
<td>1.6.0</td>
<td></td>
</tr>
<tr>
<td>925</td>
<td>Extension</td>
<td>Prediction</td>
<td>game</td>
<td>Send Tip Reminder</td>
<td></td>
<td>1.6.0</td>
<td></td>
</tr>
<tr>
<td>921</td>
<td>Frontend</td>
<td>Bug</td>
<td>Feedback</td>
<td>Staff members are not imported</td>
<td>didipokor</td>
<td>1.5.2-sara</td>
<td></td>
</tr>
<tr>
<td>917</td>
<td>Extension</td>
<td>Prediction</td>
<td>game</td>
<td>Prediction Game - Ranking Module</td>
<td></td>
<td>1.6.0</td>
<td></td>
</tr>
<tr>
<td>916</td>
<td>Backend</td>
<td>Todo</td>
<td>New</td>
<td>query in view.html photo</td>
<td></td>
<td>1.5.2-sara</td>
<td></td>
</tr>
<tr>
<td>915</td>
<td>Frontend</td>
<td>Bug</td>
<td>New</td>
<td>[mod] ranking</td>
<td></td>
<td>1.6.0</td>
<td></td>
</tr>
<tr>
<td>914</td>
<td>Frontend</td>
<td>Todo</td>
<td>New</td>
<td>[tree] bg color round columns</td>
<td>comraden</td>
<td>1.5.2-sara</td>
<td></td>
</tr>
<tr>
<td>913</td>
<td>Extension</td>
<td>Prediction</td>
<td>game</td>
<td>Toto issue</td>
<td></td>
<td>1.6.0</td>
<td></td>
</tr>
<tr>
<td>912</td>
<td>Extension</td>
<td>Prediction</td>
<td>game</td>
<td>[pred] add members in backend</td>
<td></td>
<td>1.6.0</td>
<td></td>
</tr>
<tr>
<td>911</td>
<td>Frontend</td>
<td>Bug</td>
<td>New</td>
<td>&quot;Team is in score&quot; - fixed but not all</td>
<td></td>
<td>1.5.2-sara</td>
<td></td>
</tr>
</tbody>
</table>

### 4.3. Test Results

System Tester in the exercise testing procedure, must record the time they receive the results. This section provides a summary of the results obtained in the form:

1st A test case that the system has passed from the time the list.

2nd A test case which had to repeat the list. Identifies the program errors that were discovered during the test cases.

Charts in the form of statistical data on the number of times the system did not pass any test case.
5. User Documentation

5.1. System Administrator Guide

This section provides instructions for administrators who oversee the program designed. It must be specified in detail how a particular environment to install / uninstall system comprising a system of files, the necessary hardware and software configuration. We will find this Guide into the Assembla – Tortoise.

5.2. User Guide

This section provides instructions for users who work with a program. The user manual should be coherent and vividly describe the action sequences in which the user must perform in order to use the system created function. We will find this Guide into the Assembla – Tortoise. Also in this section shall be a complete list of error messages with links, how to restore the potential consequences of errors.

6. Viability and conclusions

There is no doubt that our project is viable because it does not pose any additional expense to the hours of work and programming. The Gantt chart is not entirely reliable because during the development of the project we have encountered myriad of problems that have dragged all the duration of the application. A team of more than 4 people, as we started doing the project has proved to be little for the magnitude of the intranet, (we wanted to do too much in too little time) Difficulties we have encountered are each working in different geographic locations, which has hampered communication greatly. The solution would be to establish a workplace or reunion where we can put together all our concerns and to advise us. Expanding the team would be a good idea if we have to split the profits. During the development has come the question of whether we could throw in our open source contributions as likely to generate new jobs, and also facilitate the work, as any person could work with us.
7. VOCABULARY

CMS → http://en.wikipedia.org/wiki/Content_management_system
REPOSITORY → http://en.wikipedia.org/wiki/Repository
PLAN AVANZA → http://www.planavanza.es/Paginas/Inicio.aspx //Spanish Webpage//
Keyword-driven testing → http://en.wikipedia.org/wiki/Keyword-driven_testing
Table-driven testing → http://en.wikipedia.org/wiki/Keyword-driven_testing
Action-word testing → http://en.wikipedia.org/wiki/Keyword-driven_testing

8. BIBLIOGRAPHY

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Joomla extensions → http://extensions.joomla.org/
AppServ homepage → http://www.appservnetwork.com/
Tortoise homepage → http://tortoisesvn.net/
Joomleague homepage → http://www.joomleague.net/
Joomleague forum → http://forum.joomleague.net//
Joomleague repository →
http://bugtracker.joomleague.net/redmine/projects/joomleague/repository
Joomleague info and FAQ → http://wiki.joomleague.net/doku.php
Test Cases Specifications → http://en.wikipedia.org/wiki/Keyword-driven_testing