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WEB-Project

CLmil-v11e - Multimedia Design – 3.semester 2. project
101.Oct. 2012 - 12.Oct..2012
THA / IRF
Group #2

Url : **http://spectrum-services.dk/media.php**

Group Members

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Introduction and learning objectives

This report describes the 2nd project of our second year in the Multimedia Design & Communication programme.

Our assignment was to create a showcase project for the company called Convey-IT – a small media bureau located in central Copenhagen.
Convey-IT has always focused on delivering high quality no-nonsense web based solutions matching their clients' needs in the world of digital media. This project will be used later on for marketing aimed at new potential clients. The project must demonstrate a combination of design and web based voting/rating systems suitable for professional commercial websites (in this case for images, videos and flash productions made by us).
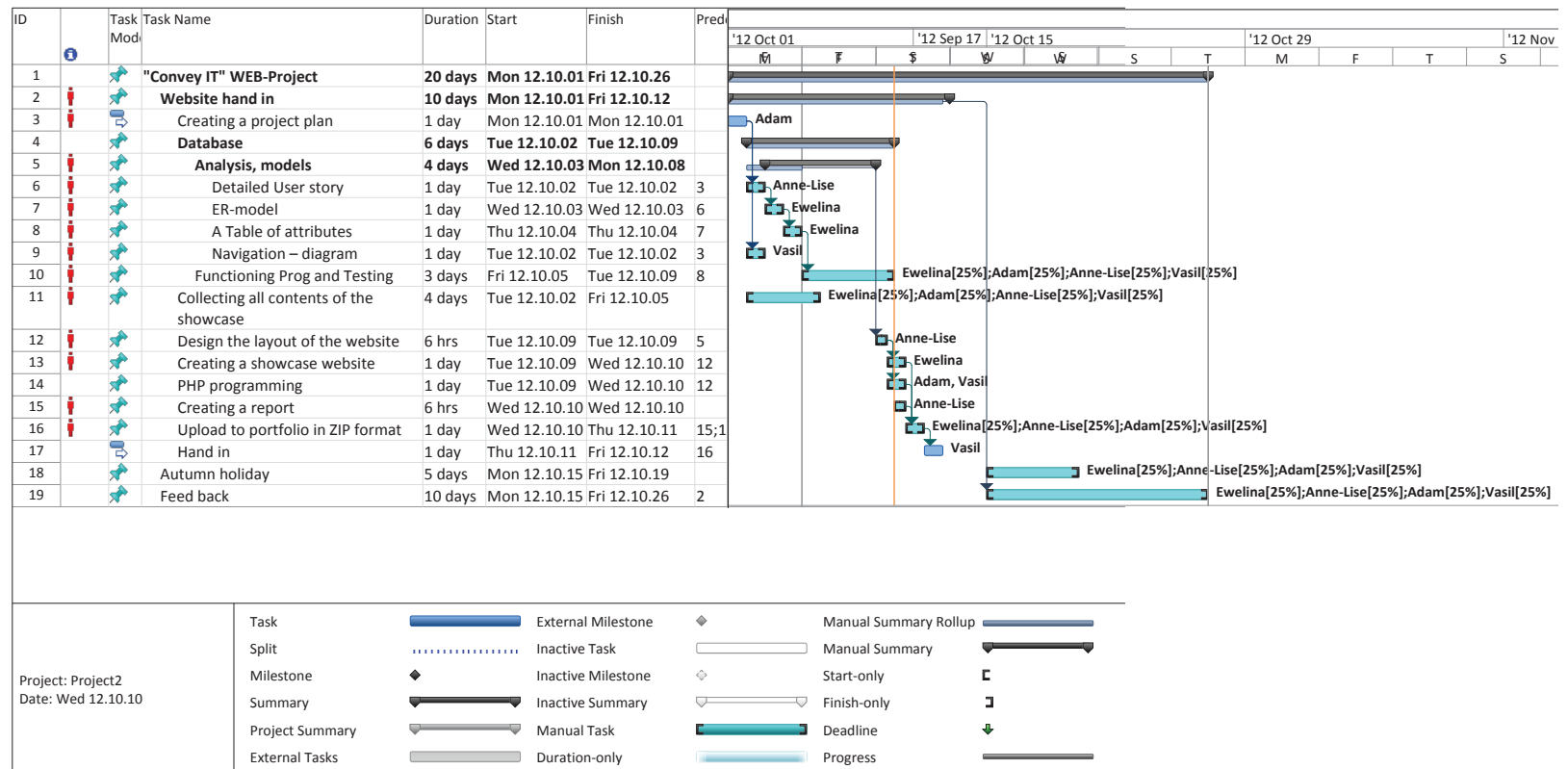
We wanted to implement our website with a demo of a fully functioning voting/rating system and we called this demo RATE IT.

Our goal was to create a professional website. In order to do this project we created a database to store the data, refer to a collection of related pieces of information stored on a server, retrieve and update desired pieces of information. We analysed fully the document and developed a functioning database that could support a business in the future.

In this project we should learn to be aware of the importance of a well-defined and documented analysis before developing a product and to understand the use of documentation for the development and the maintenance of various activities.
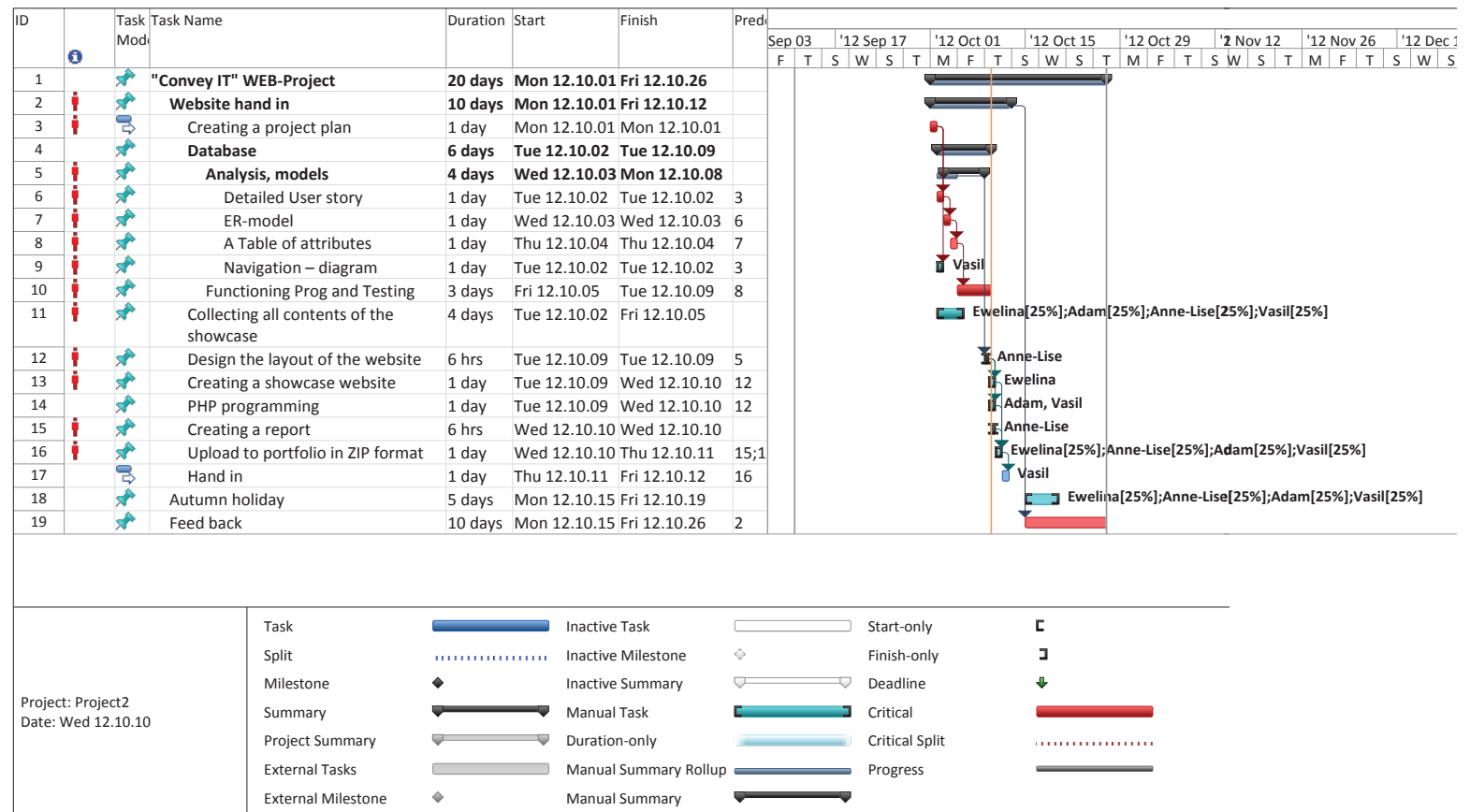
Project Plan

Our first step was to create a project plan, which shows us the how far we are, how much time we can spend on different tasks, and to define our goals to reach in time.

ID		Task Mode	Task Name	Duration	Start	Finish	Pred
1		📌	**"Convey IT" WEB-Project**	**20 days**	**Mon 12.10.01**	**Fri 12.10.26**	
2	⬤	📌	**Website hand in**	**10 days**	**Mon 12.10.01**	**Fri 12.10.12**	
3		⇨	Creating a project plan	1 day	Mon 12.10.01	Mon 12.10.01	
4		📌	**Database**	**6 days**	**Tue 12.10.02**	**Tue 12.10.09**	
5	⬤	📌	**Analysis, models**	**4 days**	**Wed 12.10.03**	**Mon 12.10.08**	
6	⬤	📌	Detailed User story	1 day	Tue 12.10.02	Tue 12.10.02	3
7	⬤	📌	ER-model	1 day	Wed 12.10.03	Wed 12.10.03	6
8	⬤	📌	A Table of attributes	1 day	Thu 12.10.04	Thu 12.10.04	7
9	⬤	📌	Navigation – diagram	1 day	Tue 12.10.02	Tue 12.10.02	3
10	⬤	📌	Functioning Prog and Testing	3 days	Fri 12.10.05	Tue 12.10.09	8
11	⬤	📌	Collecting all contents of the showcase	4 days	Tue 12.10.02	Fri 12.10.05	
12	⬤	📌	Design the layout of the website	6 hrs	Tue 12.10.09	Tue 12.10.09	5
13	⬤	📌	Creating a showcase website	1 day	Tue 12.10.09	Wed 12.10.10	12
14	⬤	📌	PHP programming	1 day	Tue 12.10.09	Wed 12.10.10	12
15	⬤	📌	Creating a report	6 hrs	Wed 12.10.10	Wed 12.10.10	
16	⬤	📌	Upload to portfolio in ZIP format	1 day	Wed 12.10.10	Thu 12.10.11	15;1
17		⇨	Hand in	1 day	Thu 12.10.11	Fri 12.10.12	16
18		📌	Autumn holiday	5 days	Mon 12.10.15	Fri 12.10.19	
19		📌	Feed back	10 days	Mon 12.10.15	Fri 12.10.26	2

Project: Project2
Date: Wed 12.10.10

Task	▬▬▬	External Milestone	◆	Manual Summary Rollup ▬▬▬
Split	··········	Inactive Task	▭▭▭	Manual Summary ▼▬▬▼
Milestone	◆	Inactive Milestone	◇	Start-only ⊏
Summary	▼▬▬▼	Inactive Summary	▽▭▭▽	Finish-only ⊐
Project Summary	▽▬▬▽	Manual Task	▬▬▬	Deadline ⬇
External Tasks	▭▭▭	Duration-only	▭▭▭	Progress ▬▬▬

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Project Plan - Critical Path

Here is the version of the Project Plan that shows the critical path, where we could not have any delay, if we wanted to finish the project in time.

ID	Task Mode	Task Name	Duration	Start	Finish	Pred
1		**"Convey IT" WEB-Project**	**20 days**	**Mon 12.10.01**	**Fri 12.10.26**	
2		**Website hand in**	**10 days**	**Mon 12.10.01**	**Fri 12.10.12**	
3		Creating a project plan	1 day	Mon 12.10.01	Mon 12.10.01	
4		**Database**	**6 days**	**Tue 12.10.02**	**Tue 12.10.09**	
5		**Analysis, models**	**4 days**	**Wed 12.10.03**	**Mon 12.10.08**	
6		Detailed User story	1 day	Tue 12.10.02	Tue 12.10.02	3
7		ER-model	1 day	Wed 12.10.03	Wed 12.10.03	6
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Project: Project2
Date: Wed 12.10.10

Task	Inactive Task	Start-only	
Split	Inactive Milestone	Finish-only	
Milestone	Inactive Summary	Deadline	
Summary	Manual Task	Critical	
Project Summary	Duration-only	Critical Split	
External Tasks	Manual Summary Rollup	Progress	
External Milestone	Manual Summary		

Documentation and argumentation
of functionality decisions and process

Our process started with the idea of making a very simple webpage that enables the user to vote, without registration and to go through an important amount of data, here represented as a media showcase.
The basic idea was to put all the content on the home page, such as Pinterest does.
The idea of using as boxes a Polaroïd frame, was to give the design a bit more structure. Also the background is not completely white or grey but contains some structure that makes the website a bit more sensitive.

Proposing the user a freedom in the navigation was for us our main goal. Therefore, the user can just choose what to look at, what to rate, without any obligation of registration.
Our functionality decisions was to make a voting/rating system also very free, that the user can manage using as he wants.
By clicking on stars (the rating system should be compsed of 5 stars), the content will be automatically rated and the database will count how many votes each media got without mentionning any user name.
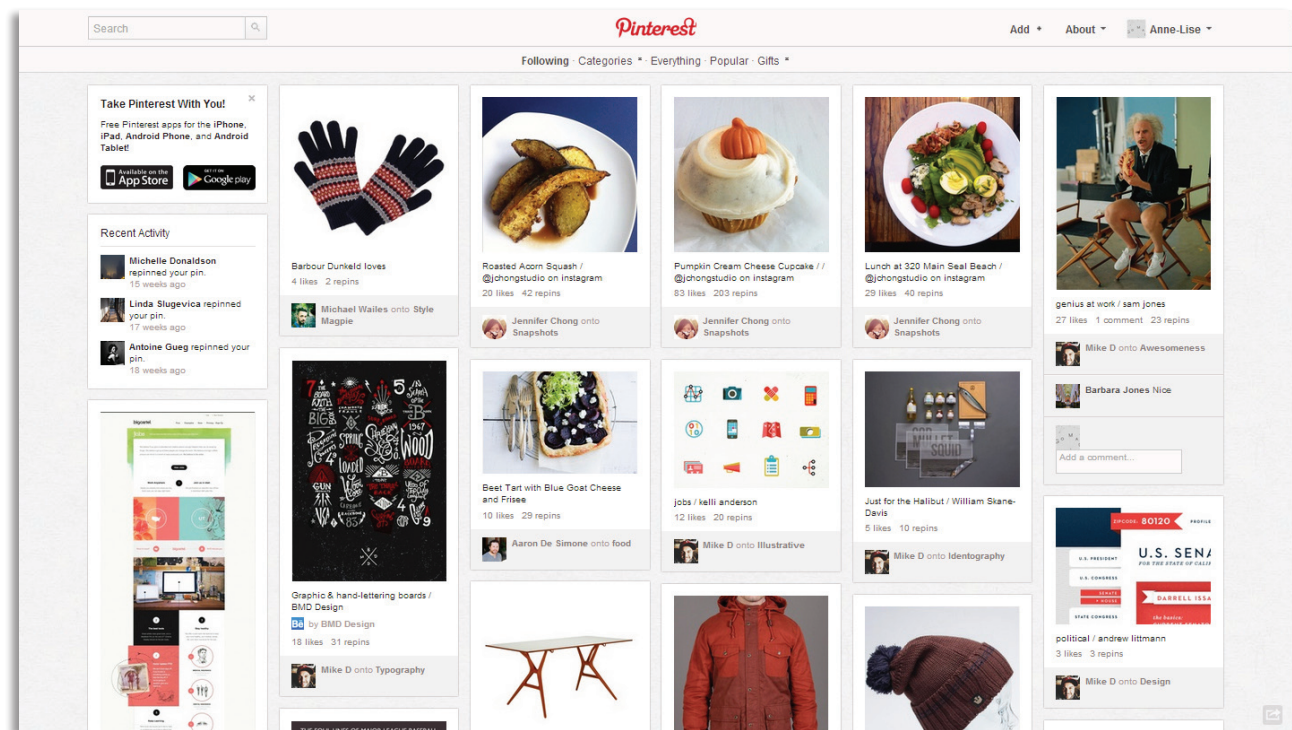
Mock-ups

The first idea was to make a website that looks a bit like Pinterest, where projects are kind of pinned on a wall.
But the first design was a bit too complicated and too graphic for a «template» as ConveyIT wanted.

We decided to make a design a bit more calm, where basically all the content is exposed to the user, he just needs to chose what he wants to see by going to the menu.
The voting part is also very simple, the user votes by clicking on the stars at the top of each «box».

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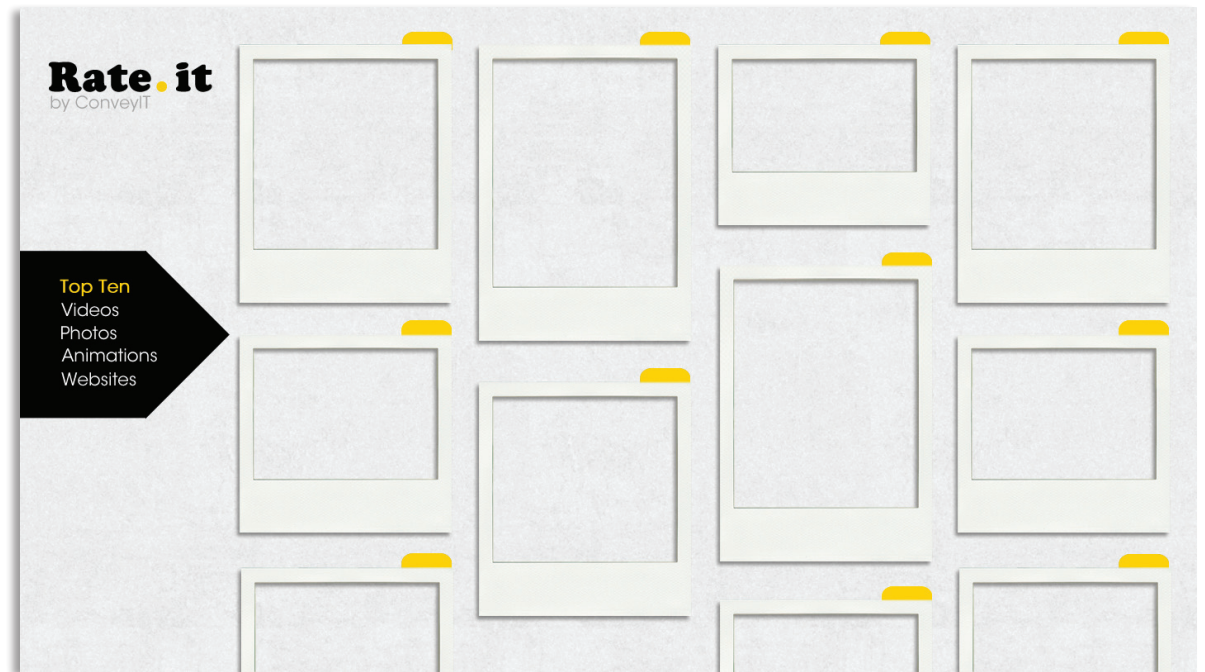
Navigation Diagram

The navigation diagram illustrates all subpages and possibilities to vote for some media from every page in the website.

The main idea of our website is to give the opportunity for the users to vote for different kinds of media like pictures, videos, animations and websites.

To be easier for the user there is no registration process and the structure of the pages is simple:

Home page and sidebar menu where you can split the media in 3 categories: «Videos», «Pictures» and «Animations».

The «Home page» includes all kinds of media which the users can find in this website and he has the opportunity to vote for his favorite one/ones. By clicking on the logo, the user will be able to go back to the homepage from the other pages.

In the subpage «Vote» the user can see the best ranked content and can vote for his favorite.
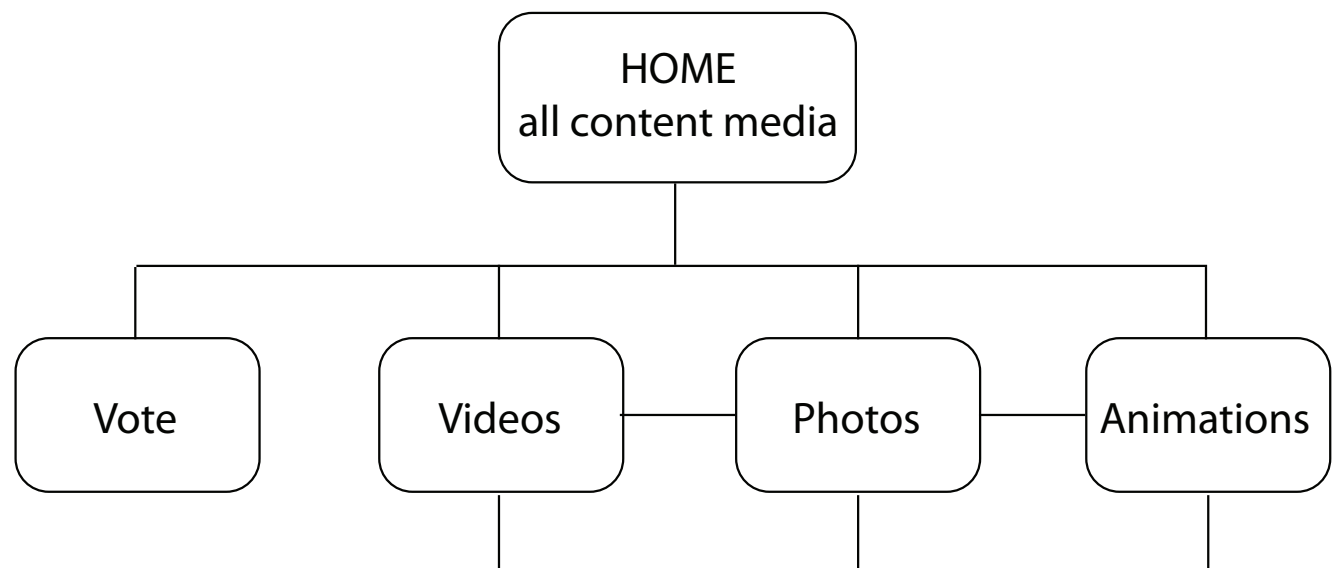
User Story

The following user story depicts a scenario in which the user is rating some content contained and shown on a showcase website.

The voting process

1. When the user enters the website, all the content is shown randomly, not ordered or ranked in any ways.

2. By going to the left sidebar, the user can choose how the elements are going to be organized per categories.

The categories are the following ones :
• The videos that categorizes all the videos and only videos without any rank
• The pictures that categorizes all the pictures and only pictures without any rank
• The animations that categorizes all the animations and only animations without any rank

3. By clicking on the logo at the left hand corner, the user can just go back to the homepage, where all the content is shown (**1.**)

4. The user can vote by clicking on «vote» in the menu and can then participate to the ranking of the content.
The user can vote as many times as he wants for each media.
The voting system is placed under each picture of the media.

5. Buy clicking on the vote button next to the media, the user will be directed to a page telling him that he has voted for the media # and how many points did the user gave it.
By clicking on «go back», the user will be able to see the actual ranking of each media and vote again if he wants to.

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ER Model - 3rd normal form
Table of attributes

Media	
Media_ID	**PK**
URL	
Category_ID	**FK**

Rank	
Rank_ID	**PK**
Value	
Media_ID	**FK**

Category	
Category_ID	**PK**
Type	
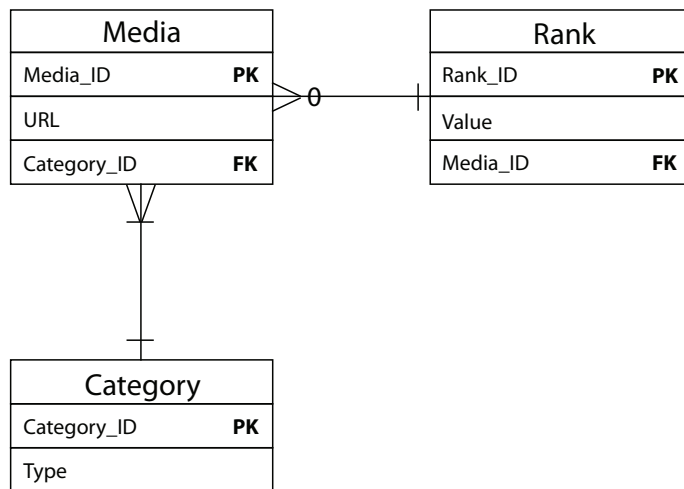
To model a data, our group has used a technique called – Entity Relationship Diagram. Data modeling is an essential component of database design and development.

Before creating the ER Diagram on 3rd Normal Form, we determined what needs to be done, we created User Story and we analyzed all the requirements that are needed for the website. We started the database design with a creation of conceptual design, for which the ER model is useful.

After modeling the entities with their relationships, we normalized the model. Normalization of data is a process of adjusting relations to have several desirable characteristics.

This process eliminates certain types of data redundancy, avoids some update anomalies and in the result we have a clearer data model. The last step involves creating the relational database.

The Data is loaded into the database, and the system is thoroughly tested. After the system is in production, the maintenance phase begins. In this phase, problem are corrected, and enhancements are implemented.

In order to describe the previous Entity-Relationship Diagram in a more detailed way, we created a table of attributes.

In a first column we have put entities – objects that are involved in the enterprise and that be distinguished from other objects. After – the attributes which describe one aspect of an entity type.

Attributes are a single valued and they are indivisible. We defined values of the attributes, notes and data type. This kind of description allows us to create a properly working database.

| ENTITY	ATTRIBUTES	VALUE	NOTES	DATA TYPE
Media	Media_ID	1 - X	Unique no.	N
	URL	All char.	Max. 50 char.	AN
	Category_ID	All char.	Max. 10 char.	N
Category	Category_ID	All char.	Max. 10 char.	N
	Type	All char.	Max. 10 char.	AN
Rank	Rank_ID	1 - 5	Unique no.	N
	Value	1 - 5	Unique no.	N
	Media_ID	1 - X	Unique no.	N

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Final website

This is a final vision of our website, a few screenshots of the finished showcase product we propose to ConveyIT as demo.

For technical skills reasons, we were not able to make the voting system as we wanted it to look like (a star-rating system).
Instead, we just used radio buttons and a submit button that will connect with the database.

See the page here :
http://spectrum-services.dk/media.php
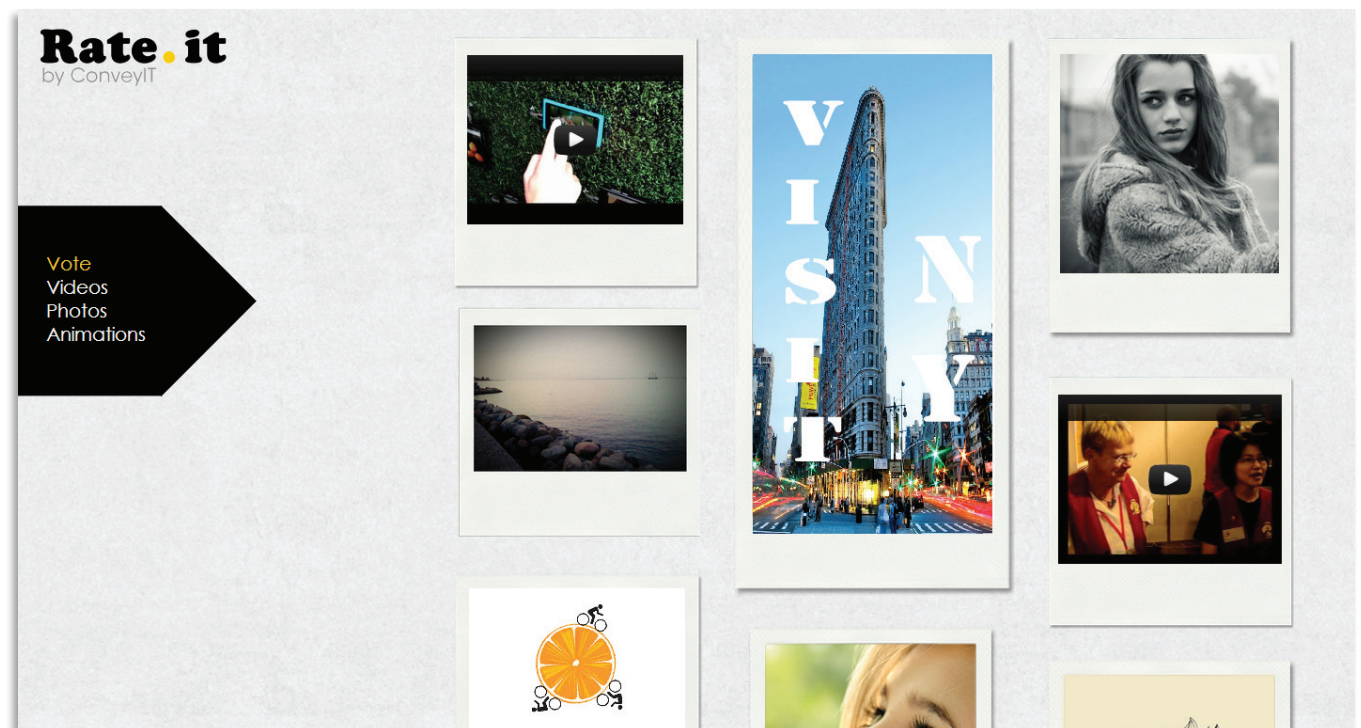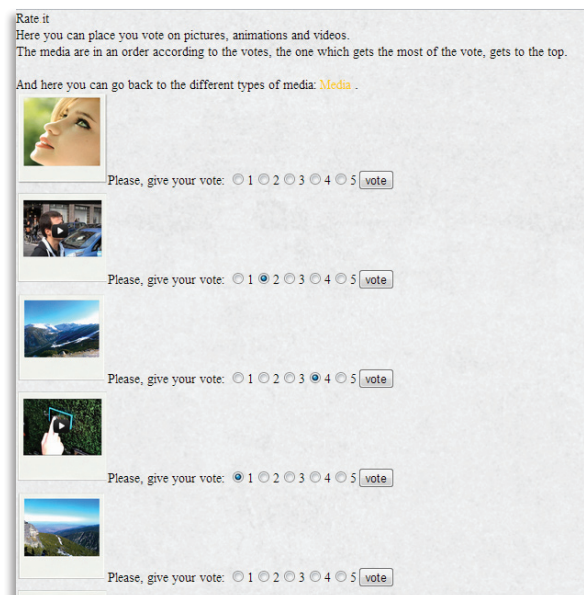
Examples of codes

These are the codes we used for creating the php system

```php
<?php
include 'db_con.php'; -          CONNECTION BETWEEN PHP
AND DATABASE
$select = «SELECT Media.Media_ID, Media.URL, AVG(Rating.
Value) FROM Media, Rating
WHERE Media.Media_ID = Rating.Media_ID_fkey        -
SELECT THE TOP MEDIAS ACCORDING TO THE VOTE'S AVARAGE
GROUP BY Media.Media_ID     -          GROUPED AND PUT IN
ORDER, SO THE MOST VOTED IS ON TOP
ORDER BY AVG(Rating.Value) DESC»;
//$select = «select Media_ID, URL from Media»;
if($result = $mysqli->query($select))
{
while($row = $result->fetch_assoc())
{
echo '<form action=»recieve_vote.php»
method=»POST»><tr><td><img src=»'.$row['URL'].'» alt=»»
height=»100» width=»100»></td><td><input type=»hidden»
name=»mediaID» value='.$row['Media_ID'].'</td><td>
Please, give your vote: <input type=»radio» name=»rate»
value=»1» id=»1» />1<input type=»radio» name=»rate»
value=»2» id=»2» />2<input type=»radio» name=»rate»
value=»3» id=»3» />3<input type=»radio» name=»rate»
value=»4» id=»4» />4<input type=»radio» name=»rate»
value=»5» id=»5» />5<input type=»submit» value=»vote»
name=»submit»></td></tr></form>';

-          SEND VOTE TO DATABASE
}
}
?>
```

THE RECIEVING:

```php
<?php
include('db_con.php');        -
CONNECTION WITH DATABASE
$sql = «INSERT INTO Rating (Media_ID_fkey,
Value) VALUES (?, ?)»;  -          INSERT A RATE
//echo $_POST['mediaID'];
//echo 'test'.$_POST['mediaID'].'test';
//echo $_POST['rate'];

echo 'Your vote is : '.$_POST['rate'].' and the
chosen media is nr. '.$_POST['mediaID'];

//echo 'test'.$_POST['rate'].'test';
$stmt = $mysqli->prepare($sql);
//var_dump($stmt);
$stmt->bind_param('ii', $_POST['mediaID'],
$_POST['rate']);
$stmt->execute();

//echo 'You put a rate on the product with
id:'.$_POST['rate'];
?>
```

Conclusion

This project has again been very challenging for the whole group as long as the php part of it has been taught at the very last minute.

Implementing a website with a database was a very first time for us and therefore, we are pretty happy about the result. We have tried to propose a nice and user-friendly design, simple but still acceptable on a professional basis.

The team-work on this project has also been interesting, as long as we have tried to help each other when ones couldn't handle some tasks for personnal reasons.

Unfortunately because of the time schedule given by the school, it has been hard to work and to follow our initial project plan.

Indeed, the php solutions have been given way too late and this issue kept us being scared about a potential failure.