

Planning work for rare disease video portal

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Introduction

The Internet has become one of the main sources of health information. Studies show that in USA and some European countries most of the adult population search health information online. The increased demand of health information also correlates with the offer. For example, there are more than 20.000 videos in YouTube created by American hospitals. There are many stakeholders creating health content online: hospitals, governments, doctors, patients, foundations, etc. They are creating content of very diverse quality, not just in terms of technical quality (e.g. audio, resolution) but also in the quality of the content (e.g. too complex language, boring, miss-leading information). In fact, online health information is a very complex type of information which has been extensively researched. However, little if not research has been conducted in the area of health videos. All research in health videos has been focused on quality and observational studies but not information retrieval.

In this project we are developing a proof-of-concept health video portal that integrates seamlessly health videos from YouTube and give personalized recommendations.

Objectives

Mainly what we want to do is to apply rare disease social network within the health community, so we will avoid the extremely popular items that had little to do with health.

We will integrate the social network:

- collaborative filtering: to capture user preferences
- HTML5 compatible embed media files.
- Will use “star rating”/bean for each user on network.

Expected contributions: this has been applied in other areas but to my knowledge never with for online health information retrieval. We will study how to increase times for updating new media files

Contributions: this has been applied very seldom to the health domain and limited research is available. We are increasing the knowledge about health information in the web.

State of the art

Social network analysis of the content providers can be used to extract information about the characteristics of the content (e.g. quality, trustworthiness).

Health information about users can decrease cold start problem.

- Health information correlates with the information needs of the users. That information can alleviate the new user cold start problem and therefore improve recommendations predictions.
- The profile of the user (professional or health consumer) is also a relevant parameter to predict the ratings since the knowledge level and objectives are different.

Flexible design can be enhanced by integrating with platforms, such as PHRs and Social Networking sites.

It is not well understood the motivations and human factors behind the health consumers that are creating and consuming health content in the social web.

- Study of the motivations of users creating and consuming health content in the social web.

Video Health Portals: similar & related Projects

Online health information

Already in the USA and in some European countries most of the adult population uses Internet as the main source of health information, not just static web sites but also social media (blogs, videos). Companies such as WebMD.com that provide health information to consumers in the USA have become multimillionaire businesses. In Spanish there are many portals providing health information, such as salupedia.org, www.pulevasalud.com. Most of the Spanish sites are non-profit or are being used as marketing tools for companies.

Health Videos

Internet videos have become one of the most common types of content in the current web. Over 2 billion videos are watched everyday in YouTube. Although not all of them are health-related a growing number of health videos are being published. Half of the American hospitals studied by EdBenett have channels in YouTube. These 400 channels have uploaded over 20.000 videos. Health agencies, governments, medical associations, etc. are also uploading content. The are companies such as IcYou.com that aggregate (manually) health videos and also create their own content.

Informarse es salud

Informarse.es is a audiovisual service where its objectives follow the wellbeing, health and the quality of life. This project use ICT for offering useful contents, in a simply and attractive communication through multiples channels: Internet, mobile, audiovisual mediums, etc.

Inicio Información del Proyecto Sugerencias

JUNTA DE ANDALUCÍA

informarse.es salud

Destacados

Estos son los 3 vídeos del momento en informarseesalud

Haz click sobre el vídeo que quiera visualizar

Rutas Saludables.

Técnica Diagnóstica. Laparoscopia

LAPAROSCOPIA ¿Que es?

LAPAROSCOPIA ANTES DE LA PRUEBA

CONSENTIMIENTO INFORMADO:

Documento que recoge el desarrollo de la prueba y sus posibles complicaciones.

- Debe firmarlo el paciente antes de la prueba.

02:02 / 04:45

Login

ok

Regístrate

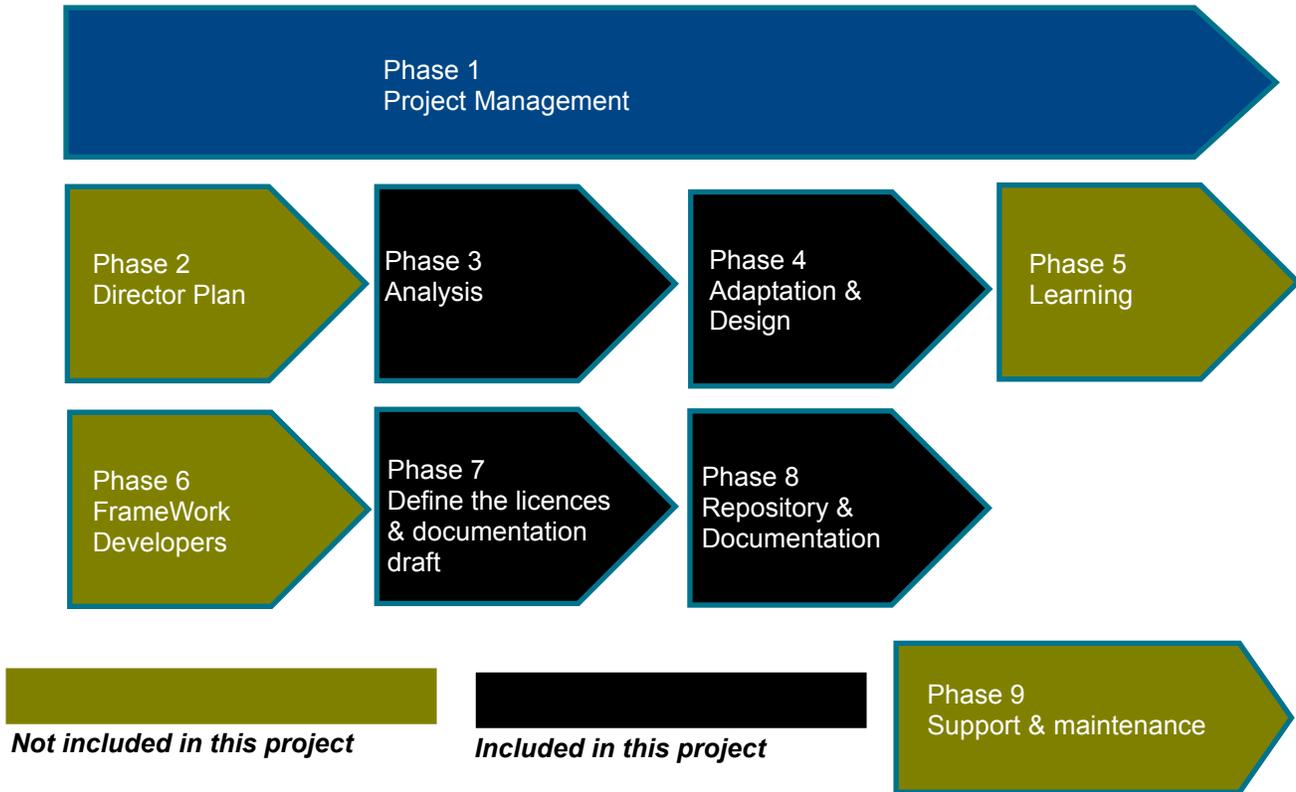
Ha olvidado su contraseña

Buscador

ok

Planning

WorkFlow



Phase 1: Project Management

- Meetings and sprint group.
- Study project impact.
- Documental management.
- Give quality and dates execution guarantee of the project.
- Define roles.

Phase 2: Director Plan

- Best practices on ICT ER implantations.
- Define a whole roadmap and long tail groups of project around ER needs.
- Make the final report with all results.

Phase 3: Analysis

- Best practices on video ER implantations.
- Needs study of ER video project.
- Identify all associations & people finding by polls, focal groups and so on.
- Identify all communication points for getting all possible better process and interrelations for a good implantation.

- Analysis of youtube crawler.
- Support recommendations for crawler.

Phase 4: Adaptation & design

- Install & configure tools for video ER.
- Adapt this tools for all detected needs.
- Draft & CSS design.
- Final product and validation.

Phase 5: Learning

- Make all contents for learning and e-learning.
- Plan a pedagogical teaching (12 to 25 hours).
- Manuals and documents on line for a correcting use.

Phase 6: Framework Developers

- Define the framework for developers and testers user.
- Create a criteria for subscription and contribution.
- Define roles for each developers.

Phase 7: Define license & Documentation draft

- Show each license for a better adjustment.
- Analyze the correct and compatible license for this product.
- Describe license for applications used.

Phase 8: Repository & Documentation

- Create a repository for Er video portal.
- Define a criteria for a good documentation and all over.

Phase 9: Support & maintenance

- Remote assistance and monitored level.
- Getting a support for some new problems and bugs: system tray ticket.
- FAQ of a new question about the use of the platform.

Methodology

We were studying two ways for a correct and wellbeing project, in this case we will select between two options:

1. Two Tracks Unified Process (2TUP) Methodology

yPBL Methodology use the main characteristics of a tradicional model (Cascade) and scrum model methodology. It use two pools , each other oriented following a tradicional method and the other in a scrum way.

This methodology join a Standar Method and an Agile method. It's used by groups for two o more persons.

<http://www.ieec.uned.es/Investigacion/Educon2010/SearchTool/EDUCON2010/papers/2010S11A04.pdf>

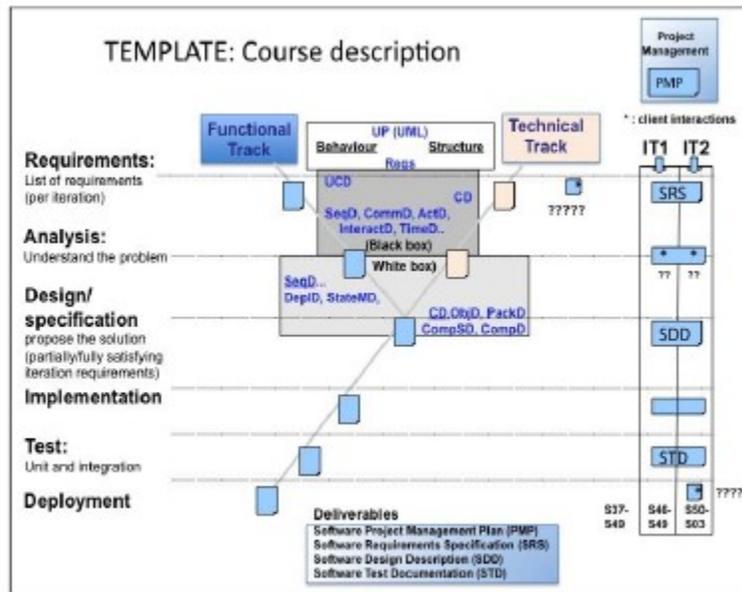


Figure 6. yBPL template for moodle interface

2. Scrum Methodology

An iterative, incremental method for project management to be oriented by an agile software development. (http://en.wikipedia.org/wiki/Scrum_%28development%29)

