Project Deliverables:

A Social Networking and a Virtual community website for a Swim Team using Joomla

CSCI 6838 Fall 2007 - Team #6

http://dcm.uhcl.edu/cap683807fagp6/

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Phase 1
**Analyze and Prototype**  
*(First Version)*

Software Design Specification draft that includes a UML 2.0 analysis model, and a working prototype of the Virtual Community software.
[Use case Diagram]
**Case 1: Maintain template designs**

**Case 2: Add New Article**
Case 3: Upload pictures/videos
Phase 2
Design and Build Beta: (Second Version)

Software Design Specification final that includes a UML 2.0 design model and a beta version of the virtual community software.

➢ Use case Diagram:
View News Feeds/ Event Schedules, Meet Entry Calendar
Following are the common features of the social networking:

**Common:**
- Blogs
- Forum
- Groups
- Friend’s List
- Profile
- Videos/Photo Sharing
- Provides public commenting feature (individuals can comment on their friends profiles by writing testimonials, guest book messages etc.)

**Profile:** All the social networking sites allow the users to have their own profile. After registering with the social networking sites, the user is asked to fill out forms containing series of questions. The profile of the user is generated using the answers to the questions. Typical questions that will be part of the profile will include age, Hobbies, Interest, languages, and other general questions, which will help to get an idea about the user. The visibility of the profile varies by site and according to each user. Each user can make his/ her profile public so that everyone can see, or else make the profile private and thus making it not open to public. Social Networking sites such as My Space allow users to choose whether they want their profile to be public or private. Sites such as Friendster make the user profiles public. The variations in the visibility of the user profiles are one of the primary ways Social networking sites differentiate themselves.

**Friend’s list:** Each user in a social networking site is allowed to identify others to form a “friend’s list”. Most of these social networking sites require bidirectional confirmation, which means that both the parties agree. But there are sites that do not require bidirectional confirmation. It varies from one social networking site to another.

**Commenting feature:** The social networking sites allow the users to leave comments on their friend’s profile. Different social networking sites give different names to this feature. Some social networking sites call it as “Scraps”; some call them “comments”;

**Video/Photo Sharing:** The social networking sites vary in their features. But most of these sites have some common and important things, which typical characterize a social networking site such as “profile”, “friend’s list “ and “scraps”. Another feature that is common to most social networking sites are video and photo sharing. It allows users to share video and photos with other users.

**Blogs:** Most of the social networking sites allow users to post their own blogs. The user can discuss their favorite topics in blog or they can use blogs for writing their day-to-day experiences. And other users, who are interested in blogs that a specific user writes, may subscribe to his blogs.

**Forum:** Another common feature found in most social networking sites are forums. In Forums, a lot of topics may be discussed by the users of these social networking sites.
Groups: Users of these social networking sites can form groups depending upon their interests. This is a common feature found in most social networking sites.

Plugin Document

Extensions Used For Developing the ProtoType

- Joomla has three types of extensions such as:
  1. **Component**: A collection of files, which can be installed as an add-on to Joomla to provide extra features, those are not available in the basic installation.
  2. **Mambot**: A small program that is executed immediately before any content item is displayed in the website front end.
  3. **Module**: A 'window' or section of the screen used to present some form of content in the website front end.

We looked at 120 extensions for developing the prototype. We followed the user's reviews and votes to decide which extension to use. We searched for the extensions by running the search for specific features.

The Joomla extensions can be found from [www.joomla.org](http://www.joomla.org). There are around 2300 extensions available in Joomla and the number is increasing day by day. The extensions are classified as components, modules and mambots.

1. **Purpose**: Community Features

**Extension used**: Community Builder

**URL**: [www.joomlapolis.com](http://www.joomlapolis.com)

**Key Features**: community builder is a component for providing features essential for building a community.
- Efficient registration process
- Image upload
- Displays the user profile
- Integration with other components

**Reason for using**: This component is easy to install and maintain. This is the only component in Joomla, which provides all the features required to build a community.

2. **Purpose**: Displaying RSS Feeds

**Extension Used**: Slick RSS 1.4

**Key Features:**
- Provides item description
- Provides facility for displaying images

**Reason for using:** The main Reason for using Slick RSS module is that it displays five feeds per instance and it also gives user the flexibility to limit the words in the description.

3. **Purpose:** Displaying the photo gallery

**Extension used:** Zoom media gallery


**Key Features:**
- Ability to create multiple galleries
- Galleries can be published and un-published
- Galleries can be password protected
- The pictures can be uploaded from front end by administrator and also from backend

**Other Extensions tried:**
1. horizontal slide show
2. x-treme pics
3. simple image gallery
4. mehdis coppermine bridge
5. couloir slideshow gallery Ajax module
6. carousel flash image gallery
7. RS gallery2
8. easy gallery
9. gallery 2 bridge
10. transslideshow jp
11. dynamic flash gallery
12. rok slideshow
13. Expose4

**Reason for using:** We tried all the above photo gallery extensions but each extension has some or the other problems, among all the extensions I found zoom media gallery component easy to install and use. Apart from that I found the arrangement of albums in zoom media gallery component attractive compared to other gallery extensions.

4. **Purpose:** playing and sharing videos

**Extension used:** Seyret video component

**URL:** www.joomlaholic.com

**Key Features:**
- Ability to define permissions levels fro all videos
- Can create different categories
- Provides video download feature
Other extensions tried:
1. All video plug-in
2. easy tube
3. youtube video

Reason for using: Seyret video component allows user to upload and add videos. The user can manually upload video or just embed the link of the video from video hosting sites such as youtube, google videos etc. this component provides a player which allows user to play different videos.

5. Purpose: forums

Extension used: fireboard

URL: http://joomlacode.org/gf/project/fireboard/frs/

Key Features:
• provides favourite thread selection and management
• has various number of avatars to choose.
• Community builder compatible features

Other extensions tried:
joomlaboard

Reason for using: joomlaboard component is easy to install and provides better GUI compared to other forum extensions.

6. Purpose: google based advertisement banners

Extension used: google adsense


Extension tried:
1. stop press content module
2. advertising

Key Features:
• The code generated is fully compatible with google adsense policy

Reason for using: this is the only banner which dynamically displays the google advertisements.

7. Purpose: advertisement banners

Extension used: stop press content module


Extensions tried:
1. Ad ticker
2. Front Page banner
Key features:
- Ability to display up to ten advertisements randomly
- Ability to assign priority for displaying advertisements

Reason for using: this extension allows the administrator to create own banners to be posted on the website. We have used this extension to create and display advertisement banners on our website.

8. Purpose: Writing and displaying Blogs

Extension Used: Mamblog

URL: http://mambo.theyard.org/

Extensions tried: myblog

Key Features:
- Items can be published and un-published
- Allows users to comment on the blogs
- Items can be configured to appear on the front page

Reason for using: Mamblog mambot is easy to install. It allows user to write his /her own blog and view the blogs that are published on the website.

9. Purpose: Displaying Maps

Extension used: google map

URL: http://joomlacode.org/gf/project/com_google_maps/frs/

Key Features:
- Ability to add google map to the joomla site with out any programming knowledge
- Features can be added or removed by the administrator through back end

Reason for using: google map mambot is used for displaying google maps on the website. The google map mambot uses google API key to display maps. The main reason for using this plug-in is that it is easy to use.

10. Purpose: Displaying the practice schedule and meet schedule

Extension used: JEvents

URL: http://joomlacode.org/gf/project/jevents/frs/

Key Features:
- Displays the events by year, month and week.
- Provides a mini calendar, which gives quick overview of events and can be placed on any page.
- Provides a search feature, which searches and returns the results from events calendar.
Extensions tried: event list

Reason for using: JEvent is a component, which is displayed as calendar and the administrator can add the events on the calendar. We have used this component to display practice schedule and meet schedule

11. Purpose: invitation

Extension used: community builder invite

URL: www.joomlapolis.com

Reason for using: this plug-in allows the user to invite friend, relative, colleague etc to join the website. This plug-in is community builder based plug-in that is it can only be used with community builder component.

Dis-adv: this plug-in allows only one invitation at a time.

12. Purpose: post messages to the user

Extension used: CB profile book

URL: www.joomlapolis.com

Reason for using: this plug-in allows the user to write a comment or message for other user. This is a community builder based plug-in.

13. Purpose: uploading photos in the user profile

Extension used: CB Profile gallery

URL: www.joomlapolis.com

Reason for using: This plug-in allows the user to upload the pictures in his/her profile page.

14. Purpose: welcome message to a new user

Extension used: CB Auto welcome

URL: www.joomlapolis.com

Reason for using: when a user completes the registration process, a auto welcome message is sent to the user. This plug-in provides the flexibility to the administrator to frame his/her own message to welcome a new user.
Note: The extensions such as invite, CB profile gallery, CB Auto welcome, CB profile book are the community builder based plugins which only work with community builder component. We have used all the extensions for making a unique profile page for the users. There are no other extensions available in joomla that provide this features that can be integrated with community builder component.

We had to do little programming in order to integrate these extensions with the website. We did lot of analysis before installing the extensions, we made sure that the extension which we used supports the features we are looking for.
Phase 3
**Test and Deliver GA:**

Product Test Suite specified using UML 2.0 Sequence Diagrams and implemented in programming/scripting language of choice; final GA (General Availability) version of the Virtual Community software version 1.0.

**Use Case Diagram: (Third Version)**
Swimmer

- Login/Logout
- View Event Schedules, Meet Entry Calendar
- View Articles and Swimmer News
- Post Blogs
- View and Upload Pictures/Videos
- View Health Issues
- Invite a friend
- FAQs
- Benefits of Swimming

Parent

- Role of Parents
- Child's training
Requirements documents based on features

Login/Logout
This feature can be accessed by the users who would like to Login to the website. Similarly registered users use logout to exit the website.

View Pictures and Videos
This feature enables registered users to view pictures and videos. Registered users include Swimmers, Coaches, and parents.

Post to Blogs
This feature enables registered users to post to blogs.

Benefits of Swimming
Benefits of swimming articles can be viewed by everyone including the public in order to attract more people to be a part of this community and take up swimming classes.
RSS News Feeds
RSS news feeds can be viewed by everyone including the public in order to get the latest news related to swimming.

FAQs
FAQ’s can be accessed by Public, Swimmers and Parents.

Event Schedule/ Meet Entry Calendar
This feature can be viewed by everyone including Public, Swimmers, Parents, Coaches and Board Members.
Nutrition articles/ Health Issues
This feature can be accessed by Coaches, Swimmers and Parents.

Coach Requirements
This feature can be accessed only by Coaches.
Coach News
This feature can be accessed only by Coaches.

Coach Information
The coach information can only be viewed by the Coaches.

Olympic related news
This feature can only be accessed by Coaches

Sports Medicine
This feature can only be accessed by Coaches
Swimmers News
This feature can be accessed by Swimmers and Parents

Role of Parents
This feature can only be accessed by Parents

Child’s training
This feature can only be accessed by Parents

Version control
This can only be done by the administrator
Maintain template design/ Global Configuration

Add New Articles
This can be done only by the administrator

Read Messages sent to administrator
This can be done only by the administrator

Mass mail
This can be done only by the administrator
Subscribe
This can be done only by the public, in order to register with the website

Contact Information
This information can be viewed by Swimmers, Parents and administrators

Map to pools
This feature can be accessed by Administrators, Swimmers, Parents and Coaches
Sequence Diagrams

1. Maintain template designs
2. Add New Article
3. Login In
4. Upload videos
5. Create Blogs
6. Create groups
7. Remove a user

1. Maintain template designs

2. Add New Article
3. Login In

4. Upload Videos
5. Create Blogs

Select Component menu > Select mamblog submenu > Select sub levels > Create Blog

6. Create groups

Select component menu > Select GroupJive submenu > Select sub level > Add Category details > Create New group

Select GroupJive: Categories Manager

7. Remove a User

Select site menu > Select User Manager Submenu > Display Registered User > Select User > Remove user

Select User Manager

Username

Delete