

University of Puerto Rico
Mayagüez Campus
Mayagüez, Puerto Rico

Department of Electrical and Computer Engineering

E-Voting - Phase II

by

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For: Professor Amirhossein Chinaei
Course: ICOM 5016
Date: October 7, 2010.

User requirements:

Investigate all user requirements of your projects; and decide on the requirements that you want to implement in this semester.

- Bilingual interface that supports English and Spanish.
- If a user is not registered or logged in before posting a comment or a new topic he's asked to register or log-in. For registration he should provide:
 1. Valid email address
 2. Valid user name
 3. Valid password
 4. Country (ie. "Puerto Rico")
 5. Captcha

Note: Valid generally means it's not already in the database (ie. just one user may be named "carlos") and it passed a regular expression check (ie. email addresses contain alphanumeric characters and symbols an "@" and alphanumeric characters and symbols.) It also must be sanitized for SQL injections.

- Before posting a topic its author may set certain rules, e.g., allow/disallow posting with @upr.edu emails in the topic.

Note: After posting the topic creator may not modify, add or remove anything. This is done to preserve "democracy". A grace time will be given from the moment the topic is created. After this grace is over, the topic is permanent as it is.

- Visual feedback that the topic creator posted a comment is achieved by setting the background of his comment in a different color/style.
- Users may choose to have a display picture (avatar). A display picture will give users a sense that their account is really theirs, in the same way people like to decorate their computer with a wallpaper of their family or their work office with pictures and other personal items.
- Display pictures (avatars) are automatically generated for users that did not select one.
- Users may search our database for:
 1. Active
 2. Non-Active topics.

- Advanced searching features will be provided to facilitate finding a topic quickly, such as filters for:
 1. Active Topics
 2. Non-Active Topics
 3. Tags
 4. Authors
 5. Comments
- User may add "tags" to every topic. For example, imagine there's a topic about a strike in UPRM, users may add some of the following tags: *UPR*, *Strike*, *Huelga*, *RUM*, *Mayaguez*. The amount of tags per topic is limited to five.
- Users should be able to contact us and know who we are (about us/contact page).
- On the main page of our site a list of the most popular tags is shown. Clicking on a tag lists all topics that also have that tag.
- Visual feedback for tags is achieved by setting the font slightly bigger for more popular tags (ie. many topics have that tag) and slightly smaller for less popular tags (ie. few topics have that tag).
- Users may give positive or negative votes to paragraphs in documents for a particular topic.
- On paragraphs, visual feedback will help users distinguish between liked, controversial and disliked paragraphs. For example:
 1. **Disliked** paragraphs are represented with a **red** thin line beside the paragraph, it means there's a substantial amount negative votes.
 2. **Liked** paragraphs are represented with a **blue** thin line beside the paragraph, it means there's a substantial amount positive votes.
 3. **Controversial** paragraphs are represented with a **yellow** thin line beside the paragraph, it means the amount of positive and negative votes is similar.
- Users may give positive or negative votes to comments in topics. They are allowed to vote because it gives feedback to the author of the comment. The positive and negative voting allow us to sort comment in various ways that hopefully our users will find useful and user friendly.

- Comments are sorted in various ways to provide our users an easy way to read what's most relevant to them, especially in very popular topics with many comments.
 1. **Best** - Selected by default, Ranked by: 95% confidence interval.
 2. **Old** - Ranked by: Date (ascending order).
 3. **New** - Ranked by: Date (descending order).
 4. **Hot** - $|(Positive\ votes)| + |(Negative\ Votes)|$.
 5. **Top** - Ranked by: $|(Positive\ votes)| - |(Negative\ Votes)|$.
 6. **Controversial** - Ranked by: Positive and Negative vote ratios.
- Users may edit comments, an indicator such as an asterisk (*) will show other users that comment has been edited.
- Comments will display it's author's username. For example: "by CarlosMarx".
- Comments will display the amount of time that has passed after it's been posted. For example:
 1. "Posted 45 minutes ago."
 2. "Posted 3 hours ago."
 3. "Posted 10 days ago."
 4. "Posted 2 months ago."
 5. "Posted 1 year ago."
- Users take care of "spam filtering", after comments receive a certain number of negative votes they are hidden. Users may still view them by clicking on "Show hidden comments".
- A poll that allows positive and negative voting may be enabled with a starting date and an expiration date. For example:
 1. Poll opens: 4 July 2010 at 9:00PM GMT -4
 2. Poll closes: 10 July 2010 at 9:00PM GMT -4d
- To avoid spam, users are asked to complete a "captcha" before submitting a topic or a comment.
- Users may reply to other user's comments, and other users can vote on these comments.
- Social media integration, this allows our users to share topics they liked with their online friends. For example:
 1. Users may "tweet" topics. (twitter integration)
 2. Users may "like" topics. (facebook integration)
 3. Users may share the topics on Tumblr.
- Email integration, this allows users to receive email updates when a new comment has

been posted.

- Comments will be parsed, and comments with foul language will not be posted, and the user will receive a message telling them to remove the offensive language.
- RSS feed, users may "subscribe" to a certain topic and their RSS Reader will notify them when new comments have been posted.
- Users are able to view a list of topic they started in their profile.
- Users are able to view a list of comments they posted in their profile.
- Users may privately message other users.
- Users earn "karma points" by receiving positive votes on their topics and comments.
- Support for adding links, lists, quotes, having bold text and italic text for comments and topics. For example:

You type:	You see:
italics	<i>italics</i>
bold	bold
[wikipedia](http://wikipedia.org)	wikipedia
* item1 * item2 * item3	<ul style="list-style-type: none">• item1• item2• item3
> quoted text	<i>quoted text</i>

- Statistics for the contents of our data base will be shown on our main page. This will give our users an idea of the number of data we manage, they might be willing to give our site a shot if they see plenty of other people use our site. For example:

"Active topics: 42, Archived Topics: 6969."

- Statistics for the number of comments in every topic will be generated. For example:

"UPR - Strike" (23 comments)

- A space for advertising will be available to monetize our site. Maintaining a site, especially one that's popular is a relatively notable expense because we have to pay for the server's power consumption, bandwidth and other costs.
- Users may chose to become "gold members" by paying us. They will get various benefits like reduced advertising and sponsored topics.
- Users may pay to us with:
 1. [Paypal](#)
 2. [Google Checkout](#)

It'll be integrated with those services because they are the most popular ways of paying for things on the Internet without having to give us your credit card information. Instead of paying for expensive security certificates and risk being hacked we outsource that to the services mentioned above.

Administrators will have a clean, easy-to-use interface to edit the contents of the database. They should not be confused with users, that are only allowed to leave comments, delete their comments and vote positively and negatively on: paragraphs, comments and active surveys on active topics. They should also not be confused with topic-creators that are users that have created a new topic, after that they can delete their topic and their comments, but have no further control over the topic in order to preserve transparency and democracy.

Tools:

Python	Ruby	PHP
<ul style="list-style-type: none">• Very readable (some people call it "executable pseudocode").• Very popular (a lot of documentation and examples).• Scales well (even big sites like Google use it).• Many libraries that extend its functionality.• Implemented on all major platforms.	<ul style="list-style-type: none">• Multi-paradigm programming language. Meant to be more powerful than Perl, and more object oriented than Python.• Follows the principle of least astonishment (POLA), meaning that the language should behave in such a way as to minimize confusion for experienced users.• Centralized package management through RubyGems• Implemented on all major platforms.	<ul style="list-style-type: none">• One of the most used languages for web applications, it has lots of community support and documentation• It is very similar to C/C++, which many are acquainted with• Due to its popularity, it is installed or it can be easily installed on any server, and they support it• Free and open source.
MySQL	PostgreSQL	SQLite
<ul style="list-style-type: none">• Written in C and C++ (fast).• Free and Open Source.• GNU General Public License (good for open source projects).• Very popular (widely supported by almost every free/cheap web server).	<ul style="list-style-type: none">• Written in C (fast).• Free and Open Source.• BSD Licence (you can use your modified version of PostgreSQL without releasing your source code).• Scales well.	<ul style="list-style-type: none">• Written in C (fast).• Free and Open Source.• Very simple and small, good for prototyping applications.

Django	Ruby On Rails	CakePHP
<ul style="list-style-type: none"> • Reusable Code (via "django apps") • Free and Open Source • Clear separation between code/ application-logic (models) and the structure/html (templates). 	<ul style="list-style-type: none"> • Uses the Model-View-Controller architecture pattern to organize application programming. • Uses a technique called Unobtrusive Javascript to separate the functionality (or logic) from the structure of the web page. • Emphasizes <i>Convention over Configuration</i>, and <i>Don't Repeat Yourself</i>. • Includes Javascript libraries for AJAX. 	<ul style="list-style-type: none"> • Solid support (irc.freenode.org @ #cakephp can be very helpful). • Great documentation. • Shades of RoR if you are into that. • Good amount of plugins available.

Our choice of Language:

We decided to work with Python, because we're all familiar with it and the other choices don't offer anything that merits, in our opinion, learning a new language. Also, because we are acquainted with Django, which is a framework written in Python that we can use.

Our choice of Data Base Management Systems (DBMS):

We decided to use MySQL because it's widely supported and we have some previous experience with it. It integrates easily with almost every popular programming language that's used for web development (php, ruby, etc.) and python is no exception.

Our choice of Development Tools:

We decided to use Django because we have some experience with it and there's a lot of documentation available, such as a free book called "The Django Book" [djangobook.com]. It integrates well with Python because it's built with it and it offers "out-of-the-box" integration with MySQL, PostgreSQL, SQLite, and many other DBMSs.

Other tools and languages:

- **Mercurial** - for code version control. It's distributed instead of centralized like SVN and we have experience with it.
- **HTML+CSS** - for building the structure and design of our website.

Javascript - for special effects, such as AJAX.

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23 days left for discussion
tags, government, economy, jobs, education

?
23

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tags, government, economy, jobs, education

?
42

Idea Lorem Ipsum Dolor Sit Amet
7 days left for voting
tags, government, economy, jobs, education

23

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tags, government, economy, jobs, education

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Active topics: 42, Archived Topics: 6969.

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tags

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Contact

[Our emails and whatever...]

Lorem ipsum dolor sit amet, maiores ornare ac fermentum, imperdiet ut vivamus a, nam lectus at nunc. Cum quam euismod sem, semper ut potenti pellentesque quisque. In eget sapien sed, sit duis vestibulum ultricies, placerat morbi amet vel, nullam in in lorem vel. In molestie elit dui dictum, praesent nascetur pulvinar sed, in dolor pede in aliquam, risus nec error quis pharetra. Eros metus quam augue suspendisse, metus rutrum risus erat in. In ultrices quo ut lectus, etiam vestibulum urna a est, pretium luctus euismod nisi, pellentesque turpis hac ridiculus massa.

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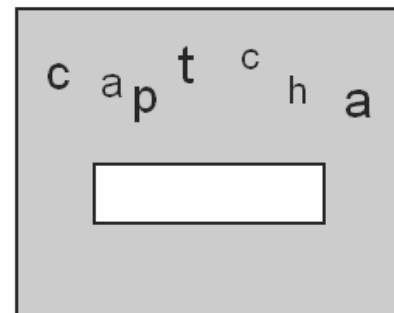
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Comment List:

23

Lorem ipsum dolor sit amet, maiores ornare ac fermentum, imperdiet ut vivamus a, nam lectus at nunc. Cum quam euismod sem, semper ut potenti pellentesque quisque. In eget sapien sed, sit dui vestibulum ultricies, placerat morbi amet vel, nullam in in lorem vel. In molestie elit dui dictum, praesent nascetur pulvinar sed, in dolor pede in aliquam, risus nec error quis pharetra. Eros metus quam augue suspendisse, metus rutrum risus erat in. In ultrices quo ut lectus, etiam vestibulum urna a est, pretium luctus euismod nisl, pellentesque turpis hac ridiculus massa. Venenatis a taciti dolor platea, curabitur lorem platea urna odio, convallis sit pellentesque lacus proin. Et ipsum velit diam nulla, fringilla vel tincidunt vitae, elit turpis tellus vivamus, dictum adipiscing convallis magna id. Viverra eu amet sit, dignissim tincidunt volutpat nulla tincidunt, faucibus est erat

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Username

on February 30, 2012

posted 2 days ago

6

Lorem ipsum dolor sit amet, maiores ornare ac fermentum, imperdiet ut vivamus a, nam lectus at nunc. Cum quam euismod sem, semper ut potenti pellentesque quisque. In eget sapien sed, sit dui vestibulum ultricies, placerat morbi amet vel, nullam in in lorem vel. In molestie elit dui dictum, praesent nascetur pulvinar sed, in dolor pede in aliquam, risus nec error quis pharetra. Eros metus quam

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Username

on February 30, 2012

posted 2 days ago

3

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Username

on February 30, 2012

posted 1 day ago

Topic Author
←



-1



Lorem ipsum dolor sit amet, maiores ornare ac fermentum, imperdiet ut vivamus a, nam lectus at nunc. Cum quam euismod sem, semper ut potenti pellentesque quisque. In eget sapien sed, sit dui vestibulum ultricies, placerat morbi amet

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Username

on February 30, 2012


posted 6 hours ago

Comment Submit:

6

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Username

on February 30, 2012

Last Comment



Speak Up

Some Text

c a p t c h a

Submit

Topic example:

Idea Lorem Ipsum Dolor Sit Amet

tags, government, economy, jobs, education



Lorem ipsum dolor sit amet, maiores ornare ac fermentum, imperdiet ut vivamus a, nam lectus at nunc. Cum quam euismod sem, semper ut potenti pellentesque quisque. In eget sapien sed, sit dui vestibulum ultricies, placerat morbi amet vel, nullam in in lorem vel. In molestie elit dui dictum, praesent nascetur pulvinar sed, in dolor pede in aliquam, risus nec error quis pharetra. Eros metus quam augue suspendisse, metus rutrum risus erat in. In ultrices quo ut lectus, etiam vestibulum urna a est, pretium luctus euismod nisi, pellentesque turpis hac ridiculus massa.

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Username

posted 10 minutes ago on February 30, 2012

23 days left for discussion



Discussion Period



Idea Lorem Ipsum Dolor Sit Amet

tags, government, economy, jobs, education



Lorem ipsum dolor sit amet, maiores ornare ac fermentum, imperdiet ut vivamus a, nam lectus at nunc. Cum quam euismod sem, semper ut potenti pellentesque quisque. In eget sapien sed, sit dui vestibulum ultricies, placerat morbi amet vel, nullam in in lorem vel. In molestie elit dui dictum, praesent nascetur pulvinar sed, in dolor pede in aliquam, risus nec error quis pharetra. Eros metus quam augue suspendisse, metus rutrum risus erat in. In ultrices quo ut lectus, etiam vestibulum urna a est, pretium luctus euismod nisi, pellentesque turpis hac ridiculus massa.

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Username

posted 5 hours ago on February 30, 2012

7 days left for voting



Voting Period



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Idea Lorem Ipsum Dolor Sit Amet

tags, government, economy, jobs, education

- 4 Lorem ipsum dolor sit amet, maiores ornare ac fermentum, imperdiet ut vivamus a, nam lectus at nunc. Cum quam euismod sem, semper ut potenti pellentesque quisque. In eget sapien sed, sit duis vestibulum ultricies, placerat morbi amet vel, nullam in in lorem vel. In molestie elit dui dictum, praesent nascetur pulvinar sed, in dolor pede in aliquam, risus nec error quis pharetra. Eros metus quam augue suspendisse, metus rutrum risus erat in. In ultrices quo ut lectus, etiam vestibulum urna a est, pretium luctus euismod nisl, pellentesque turpis hac ridiculus massa.
- 11 Venenatis a taciti dolor platea, curabitur lorem platea urna odio, convallis sit pellentesque lacus proin. Et ipsum velit diam nulla, fringilla vel tincidunt vitae, elit turpis tellus vivamus, dictum adipiscing convallis magna id. Viverra eu amet sit, dignissim tincidunt volutpat nulla tincidunt, feugiat est erat dui tempor, fusce tortor auctor vestibulum.

Venenatis praesent risus orci, ante nam volutpat erat. cursus non mollis interdum maecenas, consequat imperdiet penatibus enim, tristique luctus tellus eos accumsan, ridiculus erat laoreet nunc.
- 1 Lorem ipsum dolor sit amet, maiores ornare ac fermentum, imperdiet ut vivamus a, nam lectus at nunc. Cum quam euismod sem, semper ut potenti pellentesque quisque. In eget sapien sed, sit duis vestibulum ultricies, placerat morbi amet vel, nullam in in lorem vel. In molestie elit dui dictum, praesent nascetur pulvinar sed, in dolor pede in aliquam, risus nec error quis pharetra. Eros metus quam augue suspendisse, metus rutrum risus erat in. In ultrices quo ut lectus, etiam vestibulum urna a est, pretium luctus euismod nisl, pellentesque turpis hac ridiculus massa.
- 9 Venenatis praesent risus orci, ante nam volutpat erat. cursus non mollis interdum maecenas, consequat imperdiet penatibus enim, tristique luctus tellus eos accumsan, ridiculus erat laoreet nunc.

[Read the discussion](#)



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Username
on February 30, 2012



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Title:

what's your idea?

Description:

[Hide format help](#)

Tags:

Choose up to five tags

Discussion Period (days):

21

Voting Period (days):

7

Submit

Advanced Options

(optional)

Limit users to emails like:

.*@upr.edu

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Tags:

User:

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Topic with tag [Government]:

Idea Lorem Ipsum Dolor Sit Amet 23 days left for discussion tags, government, economy, jobs, education	?  
Idea Lorem Ipsum Dolor Sit Amet 23 days left for discussion tags, government, economy, jobs, education	?  
Idea Lorem Ipsum Dolor Sit Amet 7 days left for voting tags, government, economy, jobs, education	23  
Idea Lorem Ipsum Dolor Sit Amet 3 days left for voting tags, government, economy, jobs, education	42  

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Richard's Profile



Name: Richard B. Kaufman-Lopez

Member for: 1 year, 7 days

Website: <http://diddy.com>

location: Japan

Age: 21

[Send Richard a private message](#)



Goldmember

Karma: 420

Ideas submitted by Richard:

Idea Lorem Ipsum Dolor Sit Amet

23 days left for discussion

tags, government, economy, jobs, education

?  

Idea Lorem Ipsum Dolor Sit Amet

23 days left for discussion

tags, government, economy, jobs, education

?  

Idea Lorem Ipsum Dolor Sit Amet

7 days left for voting

tags, government, economy, jobs, education

23  

Comments submitted by Richard:


23


Lorem ipsum dolor sit amet, maiores ornare ac fermentum, imperdiet ut vivamus a, nam lectus at nunc. Cum quam euismod sem, semper ut potenti pellentesque quisque. In eget sapien sed, sit dui vestibulum ultricies, placerat morbi amet vel, nullam in in lorem vel. In molestie elit dui dictum, praesent nascetur pulvinar sed, in dolor pede in aliquam, risus nec error quis pharetra. Eros metus quam augue suspendisse, metus rutrum risus erat in. In ultrices quo ut lectus, etiam vestibulum urna a est, pretium luctus euismod nisl, pellentesque turpis hac ridiculus massa. Venenatis a taciti dolor platea, curabitur lorem platea urna odio, convallis sit pellentesque lacus proin. Et ipsum velit diam nulla, fringilla vel tincidunt vitae, elit turpis tellus vivamus, dictum adipiscing convallis magna id. Viverra eu amet sit, dignissim tincidunt volutpat nulla tincidunt, fauciat est erat

posted 2 days ago

Administrator Login: (Django Generated)

Poll Admin

Username:

Password:

Example with tables Groups, Users, Polls and Sites on the DataBase: (Django Generated)

Poll Admin

Welcome, **animimus**. [Documentation](#) / [Change password](#) / [Log out](#)

Site administration

Auth	
Groups	+Add Change
Users	+Add Change

Polls	
Polls	+Add Change

Sites	
Sites	+Add Change

Recent Actions

My Actions

- [how r u today?](#)
Poll
- [how r u today?](#)
Poll

Example of editing a table (Poll) whose attributes are Question and Date Published: (Django Generated)

Poll Admin

Welcome, **animus**. [Documentation](#) / [Change password](#) / [Log out](#)

[Home](#) > [Polls](#) > [Polls](#)

Select poll to change

2010

Action:

 0 of 2 selected

<input type="checkbox"/>	Question	Date published	Published today?
<input type="checkbox"/>	how r u today?	Sept. 29, 2010, 3:14 p.m.	False
<input type="checkbox"/>	waz up?	Sept. 29, 2010, 3:01 p.m.	False

2 polls

Filter

By date published

[Any date](#)

Today

Past 7 days

This month

This year

Example of editing attributes (Changing the Choices in a Poll): (Django Generated)

Change poll

History

Question:

Date information ([Show](#))

Choices		
Choice	Votes	Delete?
okay		
<input type="text" value="okay"/>	<input type="text" value="20"/>	<input type="checkbox"/>
yeah		
<input type="text" value="yeah"/>	<input type="text" value="26"/>	<input type="checkbox"/>
ME GUSTA		
<input type="text" value="ME GUSTA"/>	<input type="text" value="9003"/>	<input type="checkbox"/>
forever alone...		
<input type="text" value="forever alone..."/>	<input type="text" value="0"/>	<input type="checkbox"/>
<input type="text"/>	<input type="text"/>	
<input type="text"/>	<input type="text"/>	
<input type="text"/>	<input type="text"/>	

[+ Add another Choice](#)

[✖ Delete](#)

Example of foul language marking:

Speak Up

[illegible]

[Format help](#)

c a p t c h a

Submit